J E S 2 J O B L O G

```
18.12.03 JOB  151  IEF677I WARNING MESSAGE(S) FOR JOB VSTESTK3 ISSUED
18.12.03 JOB  151  $HASP373 VSTESTK3 STARTED - INIT  1 - CLASS A - SYS HMVS
18.12.03 JOB  151  IEF403I VSTESTK3 - STARTED - TIME=18.12.03
18.12.04 JOB  151  CCI001C PL1L    /IEMAA   /00:00:00.16/        /00004/SYS     /VSTESTK3
18.12.04 JOB  151  CCI001C LKED    /IEWL    /00:00:00.04/        /00000/SYS     /VSTESTK3
18.12.04 JOB  151  CCI001C GO      /PGM=*.DD/00:00:00.01/        /00000/SYS     /VSTESTK3
18.12.04 JOB  151  IEF404I VSTESTK3 - ENDED - TIME=18.12.04
18.12.04 JOB  151  $HASP395 VSTESTK3 ENDED

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

 07 JUL 20 JOB EXECUTION DATE

       22 CARDS READ

    1,140 SYSOUT PRINT RECORDS

        0 SYSOUT PUNCH RECORDS

     0.00 MINUTES EXECUTION TIME
```

```
 1      //VSTESTK3 JOB (SYS),'VSAMIOP IVP KSDSREAD',CLASS=A,MSGCLASS=X,         JOB  151
        //             REGION=4096K
        ***
        ********************************************************************
        *** PL/1 MODULE: KSDSREAD     VSAM DATASET: VSTESTKS.CLUSTER (KSDS)
        ***
        *** SEQUENTIALLY READS INDEXED DATASET AND DUMPS RECORDS TO PRINTER
        ********************************************************************
        ***
 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(KSDSREAD),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.KSDSF01 DD  DSN=PUB001.VSTESTKS.CLUSTER,DISP=OLD
```

```
 STMT NO. MESSAGE
-
   19     IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR VSTESTK3 PL1L PL1F
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO SYS00334
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 VSTESTK3 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.JOB00151.SO0101                        SYSOUT
IEF285I   SYS20189.T181203.RA000.VSTESTK3.LOADSET      PASSED        *------204
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYS20189.T181203.RA000.VSTESTK3.SYSUT3       DELETED       *------261
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T181203.RA000.VSTESTK3.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 20189.1812
IEF374I STEP /PL1L    / STOP  20189.1812 CPU    0MIN 00.16SEC SRB    0MIN 00.04SEC VIRT  4096K SYS   212K
**** JOBCARD READ 20189 18:12:03 ********************************************************************************
*                                      PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                         *
*  STEP NAME  PL1L        USER CORE        4096K   TAPES USED/IO 000/000000000   START   TIME  18:12:03    TCB TIME  00:00:00.16  *
*  PGM  NAME  IEMAA       SYSTEM CORE       212K   DISKS USED/IO 004/000000495   STOP    TIME  18:12:04    SRB TIME  00:00:00.04  *
*   COND CODE    0004     PRIVATE AREA SZ   4096K       ALLOC TIME  18:12:03      ELAPSED TIME                PGM LOAD  18:12:03   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004          2687   00:00:00.23            0             0           0             0              0             0            0  *
********************************************************************************************************************
*  CPU $ (     0.05) + EXCP $ (     0.66) + MEMORY $ (     1.86) = TOTAL $ (     2.57)                              *
********************************************************************************************************************
IEF236I ALLOC. FOR VSTESTK3 LKED PL1F
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 253  ALLOCATED TO
IEF237I 253  ALLOCATED TO SYS00336
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 VSTESTK3 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.T181203.RA000.VSTESTK3.GOSET        PASSED        *-------57
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T181203.RA000.VSTESTK3.SYSUT1       DELETED       *--------0
IEF285I   VOL SER NOS= MVS370.
IEF285I   JES2.JOB00151.SO0102                        SYSOUT
```

```
IEF285I   SYS20189.T181203.RA000.VSTESTK3.LOADSET      DELETED       *------205
IEF285I   VOL SER NOS= MVS380.
IEF373I STEP /LKED    / START 20189.1812
IEF374I STEP /LKED    / STOP  20189.1812 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  18:12:04    TCB TIME  00:00:00.04  *
*  PGM  NAME  IEWL        SYSTEM CORE        208K   DISKS USED/IO 004/000000368   STOP    TIME  18:12:04    SRB TIME  00:00:00.01  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  18:12:04      ELAPSED TIME                PGM LOAD  18:12:04   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004          1882   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 VSTESTK3 GO PL1F
IEF237I 251  ALLOCATED TO PGM=*.DD
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO
IEF237I 253  ALLOCATED TO SYS00338
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO PRINTR
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 190  ALLOCATED TO KSDSF01
IEF237I 190  ALLOCATED TO SYS00340
IEF142I VSTESTK3 GO PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS20189.T181203.RA000.VSTESTK3.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.JOB00151.SO0103                         SYSOUT
IEF285I   JES2.JOB00151.SO0104                         SYSOUT
IEF285I   JES2.JOB00151.SO0105                         SYSOUT
IEF285I   JES2.JOB00151.SO0106                         SYSOUT
IEF285I   PUB001.VSTESTKS.CLUSTER                      KEPT          *--------2
IEF285I   VOL SER NOS= PUB001.
IEF285I   UCPUB001                                     KEPT          *--------0
IEF285I   VOL SER NOS= PUB001.
IEF373I STEP /GO      / START 20189.1812
IEF374I STEP /GO      / STOP  20189.1812 CPU    0MIN 00.01SEC SRB    0MIN 00.00SEC VIRT   100K SYS   224K
********************************************************************************************************************
*                                        PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                           *
*  STEP NAME  GO          USER CORE          100K   TAPES USED/IO 000/000000000   START   TIME  18:12:04    TCB TIME  00:00:00.01  *
*  PGM  NAME  PGM=*.DD    SYSTEM CORE        224K   DISKS USED/IO 003/000000002   STOP    TIME  18:12:04    SRB TIME  00:00:00.00  *
*   COND CODE    0000     PRIVATE AREA SZ   4096K       ALLOC TIME  18:12:04      ELAPSED TIME                PGM LOAD  18:12:04   *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*   004            50   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.T181204.RA000.VSTESTK3.R0000001     KEPT          *--------0
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T181203.RA000.VSTESTK3.GOSET        DELETED
IEF285I   VOL SER NOS= WORK00.
IEF375I  JOB /VSTESTK3/ START 20189.1812
IEF376I  JOB /VSTESTK3/ STOP  20189.1812 CPU    0MIN 00.21SEC 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    /*****************************************************************11520000
  2                                                                      11530000
  3      KSDSREAD - TESTS THE VSAMIO ROUTINE BY READING RECORDS FROM A KSDS   11540000
  4                 CLUSTER AND PRINTING THEIR CONTENTS.                 11550000
  5                                                                      11560000
  6     ******************************************************************/11570000
  7    KSDSREA:                                                          11580000
  8       PROCEDURE OPTIONS(MAIN);                                       11590000
  9                                                                      11600000
 10          ON ERROR                                                   11610000
 11             BEGIN;                                                  11620000
 12                ON ERROR SYSTEM;                                     11630000
 13                PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');     11640000
 14                PUT SKIP DATA;                                       11650000
 15                PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');     11660000
 16             END;                                                    11670000
 17                                                                     11680000
 18          OPEN                                                       11690000
 19             FILE(PRINTR) LINESIZE(121);                             11700000
 20                                                                     11710000
 21          PRINT_AREA = 'KSDSREAD: READ KSDS SEQUENTIALLY';           11720000
 22          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       11730000
 23          PRINT_AREA = '------------------------------';             11740000
 24          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       11750000
 25          PRINT_AREA = ' ';                                          11760000
 26          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       11770000
 27                                                                     11780000
 28          MORE_RECORDS = YES;                                        11790000
 29                                                                     11800000
 30     /*****************************************************************11810000
 31       ESTABLISH PARAMETERS OF VSAM DATASET AND CALL ROUTINE TO OPEN  11820000
 32      ******************************************************************/11830000
 33          VSFB_DDNAME = 'KSDSF01';                                   11840000
 34          VSFB_ORGANIZATION = VSIO_KSDS;                             11850000
 35          VSFB_ACCESS = VSIO_SEQUENTIAL;                             11860000
 36          VSFB_MODE = VSIO_INPUT;                                    11870000
 37          VSFB_RECORD_LENGTH = 80;                                   11880000
 38          VSFB_KEY_POSITION = 0;                                     11890000
 39          VSFB_KEY_LENGTH = 10;                                      11900000
 40          VSIO_COMMAND = VSIO_OPEN;                                  11910000
 41          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                        11920000
 42                        VSIO_FILE_BLOCK,                             11930000
 43                        RECORD_IMAGE);                               11940000
 44          IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN              11950000
```

MACRO SOURCE2 LISTING

```
45             DO;                                                    11960000
46                CALL VSIO_ERROR;                                    11970000
47                RETURN;                                             11980000
48             END;                                                   11990000
49                                                                    12000000
50          DO WHILE(MORE_RECORDS);                                   12010000
51             CALL READ_KS;                                          12020000
52             IF (MORE_RECORDS) THEN                                 12030000
53                DO;                                                 12040000
54                   COUNTER_EDIT = RECORD_COUNTER;                   12050000
55                   PRINT_AREA = COUNTER_EDIT || ':  KEY: ' ||       12060000
56                                RECORD_KEY || '  DATA: ' ||         12070000
57                                RECORD_IMAGE_SCALAR;               12080000
58                   WRITE FILE(PRINTR) FROM(PRINT_LINE);             12090000
59                END;                                                12100000
60          END;                                                      12110000
61                                                                    12120000
62       /*****************************************************************12130000
63         CALL ROUTINE TO CLOSE VSAM DATASET                         12140000
64        *****************************************************************/12150000
65          VSIO_COMMAND = VSIO_CLOSE;                                12160000
66          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       12170000
67                        VSIO_FILE_BLOCK,                            12180000
68                        RECORD_IMAGE);                              12190000
69          IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             12200000
70             CALL VSIO_ERROR;                                       12210000
71                                                                    12220000
72          RETURN;                                                   12230000
73                                                                    12240000
74       READ_KS:                                                     12250000
75          PROCEDURE;                                                12260000
76                                                                    12270000
77       /*****************************************************************12280000
78         CALL ROUTINE TO READ NEXT RECORD FROM VSAM DATASET         12290000
79        *****************************************************************/12300000
80          VSIO_COMMAND = VSIO_READ;                                 12310000
81          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       12320000
82                        VSIO_FILE_BLOCK,                            12330000
83                        RECORD_IMAGE);                              12340000
84          IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             12350000
85             IF (VSIO_RETURN_CODE = VSIO_RC_END_OF_FILE) THEN       12360000
86                MORE_RECORDS = NO;                                  12370000
87             ELSE                                                   12380000
88                CALL VSIO_ERROR;                                    12390000
89          ELSE                                                      12400000
```

MACRO SOURCE2 LISTING

```
 90             RECORD_COUNTER = RECORD_COUNTER + 1;                    12410000
 91                                                                     12420000
 92          RETURN;                                                    12430000
 93                                                                     12440000
 94       END READ_KS;                                                  12450000
 95                                                                     12460000
 96    VSIO_ERROR:                                                      12470000
 97       PROCEDURE;                                                    12480000
 98          PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' ||            12490000
 99                       VSIO_COMMAND;                                 12500000
100          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       12510000
101          PRINT_AREA = 'VSIO_RETURN_CODE = ' ||                      12520000
102                       VSIO_RETURN_CODE;                             12530000
103          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       12540000
104          PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||                 12550000
105                       VSIO_VSAM_RETURN_CODE;                        12560000
106          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       12570000
107          PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||               12580000
108                       VSIO_VSAM_FUNCTION_CODE;                      12590000
109          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       12600000
110          PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||               12610000
111                       VSIO_VSAM_FEEDBACK_CODE;                      12620000
112          WRITE FILE(PRINTR) FROM(PRINT_LINE);                       12630000
113          PRINT_AREA = ' ';                                          12640000
114                                                                     12650000
115          RETURN;                                                    12660000
116                                                                     12670000
117       END VSIO_ERROR;                                               12680000
118                                                                     12690000
119       DECLARE                                                       12700000
120          PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL              12710000
121             ENV(F CTLASA);                                          12720000
122                                                                     12730000
123       DECLARE                                                       12740000
124          COUNTER_EDIT                  PICTURE 'ZZ,ZZZ,ZZ9V',     12750000
125          MORE_RECORDS                  BIT(1),                    12760000
126          NO                            BIT(1)    INIT('0'B),      12770000
127          RECORD_COUNTER                FIXED BINARY(15,0),        12780000
128          YES                           BIT(1)    INIT('1'B);      12790000
129                                                                     12800000
130       DECLARE                                                       12810000
131          1 RECORD_IMAGE,                                            12820000
132             2 RECORD_KEY               CHAR(10),                  12830000
133             2 RECORD_FIELDS            CHAR(70);                  12840000
134                                                                     12850000
```

MACRO SOURCE2 LISTING

```
135       DECLARE                                                       12860000
136          RECORD_IMAGE_SCALAR             DEFINED RECORD_IMAGE       12870000
137                                          CHAR(80);                  12880000
138                                                                     12890000
139       DECLARE                                                       12900000
140          1 PRINT_LINE,                                              12910000
141             2 CARRIAGE_CONTROL           CHAR(1)   INIT(' '),       12920000
142             2 PRINT_AREA                 CHAR(120);                 12930000
143                                                                     12940000
144    %INCLUDE (VSAMIO);                                               12950000
145    %INCLUDE (VSAMIOFB);                                             12960000
146                                                                     12970000
147       END KSDSREA;                                                  12980000
```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIO

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

MACRO SOURCE2 LISTING

```
                  2 VSIO_START_EQUAL     CHAR(8)   INIT('STARTEQ '),      31380000
                  2 VSIO_START_NOTLESS   CHAR(8)   INIT('STARTGE '),      31390000
                  2 VSIO_KSDS            CHAR(4)   INIT('KSDS'),          31400000
                  2 VSIO_ESDS            CHAR(4)   INIT('ESDS'),          31410000
                  2 VSIO_RRDS            CHAR(4)   INIT('RRDS'),          31420000
                  2 VSIO_SEQUENTIAL      CHAR(10)  INIT('SEQUENTIAL'),    31430000
                  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
```

MACRO SOURCE2 LISTING

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIOFB

```
221    /*****************************************************************00000100
222                                                                      00000200
223       VV   VV   SSSSS      A     M     M  IIII   OOOOO   FFFFFFF  BBBBBB  00000300
224       VV   VV  SS   SS    AAA    MM   MM   II   OO   OO  FF       BB   BB 00000400
225       VV   VV  SS        AA AA   MMM MMM   II   OO   OO  FF       BB   BB 00000500
226       VV   VV   SSSSS   AA   AA  MMMMMMM   II   OO   OO  FFFFF    BBBBBB  00000600
227       VV   VV       SS  AA   AA  MM M MM   II   OO   OO  FF       BB   BB 00000700
228        VV VV   SS   SS  AAAAAAA  MM   MM   II   OO   OO  FF       BB   BB 00000800
229         VVV    SS   SS  AA   AA  MM   MM   II   OO   OO  FF       BB   BB 00000900
230          V      SSSSS   AA   AA  MM   MM  IIII   OOOOO   FF       BBBBBB  00001000
231                                                                      00001100
232     *****************************************************************00001200
233       THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 00001300
234       ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE   00001400
235       VSAM DATASET.                                                      00001500
236                                                                          00001600
237       WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE     00001700
238       LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD  00001800
239       DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE  00001900
240       ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE  00002000
241       DATASET HAS BEEN CLOSED.                                           00002100
242     *****************************************************************/00002200
243                                                                          00002300
244           DECLARE                                                        00002400
245              1 VSIO_FILE_BLOCK            STATIC,                        00002500
246                 2 VSFB_DDNAME             CHAR(8)   INIT(' '),           00002600
247                 2 VSFB_ORGANIZATION       CHAR(4)   INIT(' '),           00002700
248                 2 VSFB_ACCESS             CHAR(10)  INIT(' '),           00002800
249                 2 VSFB_MODE               CHAR(6)   INIT(' '),           00002900
250                 2 (VSFB_RECORD_LENGTH,                                   00003000
251                    VSFB_KEY_POSITION,                                    00003100
252                    VSFB_KEY_LENGTH)       FIXED BINARY(15,0) INIT(0),    00003200
253                 2 VSFB_FILE_STATUS        CHAR(1)   INIT('C'),           00003300
254                 2 VSFB_RESERVED           CHAR(161);                     00003400
255                                                                          00003500
256     /*****************************************************************00003600
257                            END OF VSAMIOFB COPY BOOK                     00003700
258      *****************************************************************/00003800
```

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

SOURCE LISTING.

```
                /*****************************************************************    1
                                                                                       1
                  KSDSREAD - TESTS THE VSAMIO ROUTINE BY READING RECORDS FROM A KSDS   1
                             CLUSTER AND PRINTING THEIR CONTENTS.                      1
                                                                                       1
                 *****************************************************************/   1
                                                                                       6
   1             KSDSREA:                                                             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 = 'KSDSREAD: READ KSDS 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 = 'KSDSF01';                                     33
  18                   VSFB_ORGANIZATION = VSIO_KSDS;                               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 = 10;                                        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_KS;                                          51
 33                        IF (MORE_RECORDS) THEN                                 52
 34                           DO;                                                 53
 35                              COUNTER_EDIT = RECORD_COUNTER;                   54
 36                              PRINT_AREA = COUNTER_EDIT || ':  KEY: ' ||       55
                                             RECORD_KEY || '  DATA: ' ||         56
                                             RECORD_IMAGE_SCALAR;                 57
 37                              WRITE FILE(PRINTR) FROM(PRINT_LINE);             58
 38                           END;                                                59
 39                     END;                                                      60
                                                                                  61
                     /*************************************************************  62
                       CALL ROUTINE TO CLOSE VSAM DATASET                         62
                      *************************************************************/  62
                                                                                  64
 40                     VSIO_COMMAND = VSIO_CLOSE;                                65
 41                     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       66
                                VSIO_FILE_BLOCK,                                  67
                                RECORD_IMAGE);                                    68
 42                     IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             69
 43                        CALL VSIO_ERROR;                                       70
                                                                                  71
 44                     RETURN;                                                   72
                                                                                  73
 45                  READ_KS:                                                     74
                        PROCEDURE;                                                75
                                                                                  76
                     /*************************************************************  77
                       CALL ROUTINE TO READ NEXT RECORD FROM VSAM DATASET         77
                      *************************************************************/  77
                                                                                  79
 46                     VSIO_COMMAND = VSIO_READ;                                 80
 47                     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,                       81
                                VSIO_FILE_BLOCK,                                  82
                                RECORD_IMAGE);                                    83
 48                     IF (VSIO_RETURN_CODE ^= VSIO_RC_SUCCESS) THEN             84
 49                        IF (VSIO_RETURN_CODE = VSIO_RC_END_OF_FILE) THEN       85
 50                           MORE_RECORDS = NO;                                  86
```

```
51                      ELSE                                                  87
51                         CALL VSIO_ERROR;                                   88
52                   ELSE                                                     89
52                      RECORD_COUNTER = RECORD_COUNTER + 1;                  90
                                                                              91
53                      RETURN;                                               92
                                                                              93
54                END READ_KS;                                                94
                                                                              95
55              VSIO_ERROR:                                                   96
                   PROCEDURE;                                                 97
56                    PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' ||         98
                                   VSIO_COMMAND;                              99
57                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   100
58                    PRINT_AREA = 'VSIO_RETURN_CODE = ' ||                  101
                                   VSIO_RETURN_CODE;                          102
59                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   103
60                    PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||             104
                                   VSIO_VSAM_RETURN_CODE;                     105
61                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   106
62                    PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||           107
                                   VSIO_VSAM_FUNCTION_CODE;                   108
63                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   109
64                    PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||           110
                                   VSIO_VSAM_FEEDBACK_CODE;                   111
65                    WRITE FILE(PRINTR) FROM(PRINT_LINE);                   112
66                    PRINT_AREA = ' ';                                      113
                                                                             114
67                       RETURN;                                             115
                                                                             116
68                 END VSIO_ERROR;                                           117
                                                                             118
69                 DECLARE                                                   119
                      PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL          120
                         ENV(F CTLASA);                                      121
                                                                             122
70                 DECLARE                                                   123
                      COUNTER_EDIT                  PICTURE 'ZZ,ZZZ,ZZ9V',   124
                      MORE_RECORDS                  BIT(1),                  125
                      NO                            BIT(1)    INIT('0'B),    126
                      RECORD_COUNTER                FIXED BINARY(15,0),      127
                      YES                           BIT(1)    INIT('1'B);    128
                                                                             129
71                 DECLARE                                                   130
                      1 RECORD_IMAGE,                                        131
                         2 RECORD_KEY               CHAR(10),                132
                         2 RECORD_FIELDS            CHAR(70);                133
```

```
                                                                        134
72                DECLARE                                               135
                     RECORD_IMAGE_SCALAR          DEFINED RECORD_IMAGE  136
                                                  CHAR(80);             137
                                                                        138
73                DECLARE                                               139
                     1 PRINT_LINE,                                      140
                        2 CARRIAGE_CONTROL        CHAR(1)   INIT(' '),  141
                        2 PRINT_AREA              CHAR(120);            142
                                                                        143
                  /*****************************************************148
                                                                        148
                       VV   VV    SSSSS       A      M     M    IIII      OOOOO        148
                       VV   VV   SS   SS     AAA     MM   MM     II      OO   OO       148
                       VV   VV   SS         AA AA    MMM MMM     II      OO   OO       148
                       VV   VV    SSSSS    AA   AA   MMMMMMM     II      OO   OO       148
                       VV   VV        SS   AA   AA   MM M MM     II      OO   OO       148
                        VV VV    SS   SS   AAAAAAA   MM   MM     II      OO   OO       148
                         VVV     SS   SS   AA   AA   MM   MM     II      OO   OO       148
                          V       SSSSS    AA   AA   MM   MM    IIII      OOOOO        148
                                                                        148
                   *****************************************************148
                    THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS  148
                    ROUTINE.                                            148
                                                                        148
                    THE VSIO_PARAMETER_VALUES SUPPLY THE VALUES USED TO MOVE INTO       148
                    PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET AND   148
                    TO PROVIDE COMMANDS TO DRIVE THE ROUTINE.                           148
                   *****************************************************/148
                                                                        166
74                      DECLARE                                         168
                           1 VSIO_PARAMETER_VALUES   STATIC,            169
                              2 VSIO_OPEN            CHAR(8)   INIT('OPEN    '),    170
                              2 VSIO_CLOSE           CHAR(8)   INIT('CLOSE   '),    171
                              2 VSIO_READ            CHAR(8)   INIT('READ    '),    172
                              2 VSIO_WRITE           CHAR(8)   INIT('WRITE   '),    173
                              2 VSIO_REWRITE         CHAR(8)   INIT('REWRITE '),    174
                              2 VSIO_DELETE          CHAR(8)   INIT('DELETE  '),    175
                              2 VSIO_START_EQUAL     CHAR(8)   INIT('STARTEQ '),    176
                              2 VSIO_START_NOTLESS   CHAR(8)   INIT('STARTGE '),    177
                              2 VSIO_KSDS            CHAR(4)   INIT('KSDS'),        178
                              2 VSIO_ESDS            CHAR(4)   INIT('ESDS'),        179
                              2 VSIO_RRDS            CHAR(4)   INIT('RRDS'),        180
                              2 VSIO_SEQUENTIAL      CHAR(10)  INIT('SEQUENTIAL'),  181
                              2 VSIO_DIRECT          CHAR(10)  INIT('DIRECT    '),  182
                              2 VSIO_DYNAMIC         CHAR(10)  INIT('DYNAMIC   '),  183
                              2 VSIO_INPUT           CHAR(6)   INIT('INPUT '),      184
```

```
                        2 VSIO_OUTPUT          CHAR(6)   INIT('OUTPUT'),          185
                        2 VSIO_INPUT_OUTPUT    CHAR(6)   INIT('UPDATE'),          186
                        2 (VSIO_RC_SUCCESS                INIT(0),                 187
                           VSIO_RC_LOGIC_ERROR            INIT(8),                 188
                           VSIO_RC_END_OF_FILE            INIT(9999),              189
                           VSIO_RC_UNKNOWN_COMMAND        INIT(20),                190
                           VSIO_RC_DATASET_ALREADY_OPEN   INIT(21),                191
                           VSIO_RC_DATASET_NOT_OPEN       INIT(22),                192
                           VSIO_RC_ORGANIZATION_UNKNOWN   INIT(23),                193
                           VSIO_RC_ACCESS_UNKNOWN         INIT(24),                194
                           VSIO_RC_ORG_ACCESS_MISMATCH    INIT(25),                195
                           VSIO_RC_MODE_UNKNOWN           INIT(26),                196
                           VSIO_RC_MODE_UNSUPPORTED       INIT(27),                197
                           VSIO_RC_DDNAME_BLANK           INIT(28))                198
                                                  FIXED BINARY(15,0),              199
                        2 (VSIO_FB_DUPLICATE_RECORD       INIT(8),                 200
                           VSIO_FB_KEY_SEQUENCE           INIT(12),                201
                           VSIO_FB_RECORD_NOT_FOUND       INIT(16),                202
                           VSIO_FB_NO_MORE_SPACE          INIT(28),                203
                           VSIO_FB_READ_WITHOUT_START     INIT(88))                204
                                                  FIXED BINARY(15,0),              205
                     /*************************************************************  206
                       THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE  206
                       THE ROUTINE.                                                   206
                      *************************************************************/  206
                                                                                     209
                        1 VSIO_PARAMETER_BLOCK    STATIC,                          211
                        2 VSIO_COMMAND            CHAR(8)   INIT(' '),             212
                        2 (VSIO_RETURN_CODE,                                       213
                           VSIO_VSAM_RC,                                           214
                           VSIO_VSAM_FUNCTION,                                     215
                           VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0);         216
                                                                                   217
                  /*************************************************************  218
                                     END OF VSAMIO COPY BOOK                       218
                   *************************************************************/  218
                  /*************************************************************  221
                                                                                   221
                     VV    VV   SSSSS      A     M     M  IIII   OOOOO   FFFFFFF  BBBBBB    221
                     VV    VV  SS   SS    AAA    MM   MM   II   OO   OO  FF       BB   BB   221
                     VV    VV  SS        AA AA   MMM MMM   II   OO   OO  FF       BB   BB   221
                     VV    VV   SSSSS   AA   AA  MMMMMMM   II   OO   OO  FFFFF    BBBBBB    221
                     VV    VV       SS  AA   AA  MM M MM   II   OO   OO  FF       BB   BB   221
                      VV VV    SS   SS  AAAAAAA  MM   MM   II   OO   OO  FF       BB   BB   221
                       VVV     SS   SS  AA   AA  MM   MM   II   OO   OO  FF       BB   BB   221
                        V       SSSSS   AA   AA  MM   MM  IIII   OOOOO   FF       BBBBBB    221
                                                                                   221
```

```
                 ***************************************************************  221
                   THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS   221
                   ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE     221
                   VSAM DATASET.                                                        221
                                                                                        221
                   WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE       221
                   LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD    221
                   DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE    221
                   ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE    221
                   DATASET HAS BEEN CLOSED.                                             221
                 ***************************************************************/  221
                                                                                        242
75                    DECLARE                                                           244
                         1 VSIO_FILE_BLOCK            STATIC,                         245
                            2 VSFB_DDNAME             CHAR(8)   INIT(' '),            246
                            2 VSFB_ORGANIZATION       CHAR(4)   INIT(' '),            247
                            2 VSFB_ACCESS             CHAR(10)  INIT(' '),            248
                            2 VSFB_MODE               CHAR(6)   INIT(' '),            249
                            2 (VSFB_RECORD_LENGTH,                                    250
                               VSFB_KEY_POSITION,                                     251
                               VSFB_KEY_LENGTH)       FIXED BINARY(15,0) INIT(0),     252
                            2 VSFB_FILE_STATUS        CHAR(1)   INIT('C'),            253
                            2 VSFB_RESERVED           CHAR(161);                      254
                                                                                        255
                 /***************************************************************  256
                                      END OF VSAMIOFB COPY BOOK                         256
                  ***************************************************************/  256
                                                                                        146
76                    END KSDSREA;                                                      147
```

ATTRIBUTE AND CROSS-REFERENCE TABLE

DCL NO.		IDENTIFIER	ATTRIBUTES AND REFERENCES
73		CARRIAGE_CONTROL	IN PRINT_LINE,AUTOMATIC,UNALIGNED,INITIAL,STRING(1),CHARACTER
70		COUNTER_EDIT	AUTOMATIC,UNALIGNED,DECIMAL,PICTURE(ZZ,ZZZ,ZZ9V) 35,36
1	*********	KSDSREA	ENTRY,BINARY,FIXED(15,0)
70		MORE_RECORDS	AUTOMATIC,UNALIGNED,STRING(1),BIT 16,31,33,50
70		NO	AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT 50
73		PRINT_AREA	IN PRINT_LINE,AUTOMATIC,UNALIGNED,STRING(120),CHARACTER 10,12,14,36,56,58,60,62,64,66
73		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_KS	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(70),CHARACTER
71		RECORD_IMAGE	AUTOMATIC,STRUCTURE 25,41,47
72		RECORD_IMAGE_SCALAR	AUTOMATIC,DEFINED,UNALIGNED,STRING(80),CHARACTER 36
71		RECORD_KEY	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(10),CHARACTER 36
		SYSPRINT	FILE,EXTERNAL 5,6,7

```
DCL NO.          IDENTIFIER                          ATTRIBUTES AND REFERENCES

                 VSAMIOP                             EXTERNAL,ENTRY,DECIMAL,FLOAT(SINGLE)
                                                     25,41,47
75               VSFB_ACCESS                         IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(10),CHARACTER
                                                     19
75               VSFB_DDNAME                         IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(8),CHARACTER
                                                     17
75               VSFB_FILE_STATUS                    IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(1),CHARACTER
75    ********** VSFB_KEY_LENGTH                     IN VSIO_FILE_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0)
                                                     23
75    ********** VSFB_KEY_POSITION                   IN VSIO_FILE_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0)
                                                     22
75               VSFB_MODE                           IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(6),CHARACTER
                                                     20
75               VSFB_ORGANIZATION                   IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(4),CHARACTER
                                                     18
75    ********** VSFB_RECORD_LENGTH                  IN VSIO_FILE_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0)
                                                     21
75               VSFB_RESERVED                       IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,STRING(161),CHARACTER
74               VSIO_CLOSE                          IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                     CHARACTER
                                                     40
74               VSIO_COMMAND                        IN VSIO_PARAMETER_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                     CHARACTER
                                                     24,40,46,56
74               VSIO_DELETE                         IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8),
                                                     CHARACTER
74               VSIO_DIRECT                         IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10),
                                                     CHARACTER
74               VSIO_DYNAMIC                        IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10),
                                                     CHARACTER
```

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
55	VSIO_ERROR	ENTRY,DECIMAL,FLOAT(SINGLE) 28,43,51
74	VSIO_ESDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
74 *********	VSIO_FB_DUPLICATE_RECORD	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
74 *********	VSIO_FB_KEY_SEQUENCE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
74 *********	VSIO_FB_NO_MORE_SPACE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
74 *********	VSIO_FB_READ_WITHOUT_START	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
74 *********	VSIO_FB_RECORD_NOT_FOUND	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
75	VSIO_FILE_BLOCK	STATIC,STRUCTURE 25,41,47
74	VSIO_INPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER 20
74	VSIO_INPUT_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
74	VSIO_KSDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER 18
74	VSIO_OPEN	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER 24
74	VSIO_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
74	VSIO_PARAMETER_BLOCK	STATIC,STRUCTURE 25,41,47

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

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
74 *********	VSIO_RETURN_CODE	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0) 26,42,48,49,58
74	VSIO_REWRITE	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER
74	VSIO_RRDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
74	VSIO_SEQUENTIAL	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10), CHARACTER 19
74	VSIO_START_EQUAL	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER
74	VSIO_START_NOTLESS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER
74 *********	VSIO_VSAM_FEEDBACK	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
	VSIO_VSAM_FEEDBACK_CODE	AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE) 64
74 *********	VSIO_VSAM_FUNCTION	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
	VSIO_VSAM_FUNCTION_CODE	AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE) 62
74 *********	VSIO_VSAM_RC	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
	VSIO_VSAM_RETURN_CODE	AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE) 60
74	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
73	PRINT_LINE	121
71	RECORD_IMAGE	80
75	VSIO_FILE_BLOCK	196
74	VSIO_PARAMETER_BLOCK	16
74	VSIO_PARAMETER_VALUES	158

STORAGE REQUIREMENTS.

THE STORAGE AREA FOR THE PROCEDURE LABELLED KSDSREA IS 592 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_KS IS 176 BYTES LONG.

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

THE PROGRAM CSECT IS NAMED KSDSREA AND IS 1574 BYTES LONG.

THE STATIC CSECT IS NAMED KSDSREAA AND IS 5456 BYTES LONG.

STATISTICS MACRO RECORDS = 258,SOURCE RECORDS = 260,PROG TEXT STMNTS = 76,OBJECT BYTES = 1574

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_KS

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 KSDSREA

OFFSET (HEX) 0000 00C4 00D2 00DC 00E8 0100 010C 0124 0130 0148 014E 0154 015A 0160 0166 016C 0172 0178 017E 019A 01A6
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) 01A6 01B0 01B6 01B6 01BE 01C8 01D0 01D0 01EA 021C 0234 0234 0238 023E 025A 0266 0270 0276
STATEMENT NO 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 76

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.
```

KSDSREAD: READ KSDS SEQUENTIALLY

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