

J E S 2 J O B L O G

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18.09.32 JOB 150 IEF677I WARNING MESSAGE(S) FOR JOB VSTESTK2 ISSUED
18.09.32 JOB 150 $HASP373 VSTESTK2 STARTED - INIT 1 - CLASS A - SYS HMVS
18.09.32 JOB 150 IEF403I VSTESTK2 - STARTED - TIME=18.09.32
18.09.32 JOB 150 CCI001C PL1L /IEMAA /00:00:00.16/ /00004/SYS /VSTESTK2
18.09.32 JOB 150 CCI001C LKED /IEWL /00:00:00.04/ /00000/SYS /VSTESTK2
18.09.32 JOB 150 CCI001C GO /PGM=*.DD/00:00:00.02/ /00000/SYS /VSTESTK2
18.09.32 JOB 150 IEF404I VSTESTK2 - ENDED - TIME=18.09.32
18.09.32 JOB 150 $HASP395 VSTESTK2 ENDED
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----- JES2 JOB STATISTICS -----

07 JUL 20 JOB EXECUTION DATE

23 CARDS READ

1,043 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

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1 //VSTESTK2 JOB (SYS), 'VSAMIOP IVP KSDSLOAD', CLASS=A, MSGCLASS=X, JOB 150
// REGION=4096K
***
*****
*** PL/1 MODULE: KSDSLOAD VSAM DATASET: VSTESTKS.CLUSTER (KSDS)
***
*** SEQUENTIALLY LOADS INDEXED DATASET FROM SEQUENTIAL 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(KSDSLOAD),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.IMAGES DD DSN=PUB001.VSAMTEST.DATA,DISP=SHR
25 //GO.SYSUDUMP DD SYSOUT=*
26 //GO.SYSPRINT DD SYSOUT=*
27 //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 VSTESTK2 PL1L PL1F

IEF237I 253 ALLOCATED TO STEPLIB

IEF237I 253 ALLOCATED TO SYS00326

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 VSTESTK2 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.JOB00150.SO0101 SYSOUT

IEF285I SYS20189.T180932.RA000.VSTESTK2.LOADSET PASSED *-----210

IEF285I VOL SER NOS= MVS380.

IEF285I SYS20189.T180932.RA000.VSTESTK2.SYSUT3 DELETED *-----261

IEF285I VOL SER NOS= WORK00.

IEF285I SYS20189.T180932.RA000.VSTESTK2.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 20189.1809

IEF374I STEP /PL1L / STOP 20189.1809 CPU 0MIN 00.16SEC SRB 0MIN 00.04SEC VIRT 4096K SYS 212K

**** JOBCARD READ 20189 18:09:32 ****

* PRC-CCI 370/148 VS2 R03.8 HMVS STEP STATISTICS *

* STEP NAME PL1L USER CORE 4096K TAPES USED/IO 000/000000000 START TIME 18:09:32 TCB TIME 00:00:00.16 *

* PGM NAME IEMAA SYSTEM CORE 212K DISKS USED/IO 004/000000501 STOP TIME 18:09:32 SRB TIME 00:00:00.04 *

* COND CODE 0004 PRIVATE AREA SZ 4096K ALLOC TIME 18:09:32 ELAPSED TIME PGM LOAD 18:09:32 *

** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **

* 004 2718 00:00:00.23 0 0 0 0 0 0 0 *

* CPU \$ (0.05) + EXCP \$ (0.67) + MEMORY \$ (1.86) = TOTAL \$ (2.58) *

IEF236I ALLOC. FOR VSTESTK2 LKED PL1F

IEF237I 253 ALLOCATED TO SYSLIB

IEF237I 253 ALLOCATED TO

IEF237I 253 ALLOCATED TO SYS00328

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 VSTESTK2 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.T180932.RA000.VSTESTK2.GOSET PASSED *-----57

IEF285I VOL SER NOS= WORK00.

IEF285I SYS20189.T180932.RA000.VSTESTK2.SYSUT1 DELETED *-----0

IEF285I VOL SER NOS= MVS370.

IEF285I JES2.JOB00150.SO0102 SYSOUT

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IEF285I  SYS20189.T180932.RA000.VSTESTK2.LOADSET      DELETED      *-----211
IEF285I  VOL SER NOS= MVS380.
IEF373I  STEP /LKED      / START 20189.1809
IEF374I  STEP /LKED      / STOP  20189.1809 CPU      OMIN 00.04SEC SRB      OMIN 00.01SEC VIRT  260K SYS  168K
*****
*                               PRC-CCI 370/148 VS2 R03.8  HMVS  STEP STATISTICS                               *
*  STEP NAME  LKED      USER CORE      260K  TAPES USED/IO 000/000000000  START  TIME 18:09:32  TCB TIME 00:00:00.04 *
*  PGM NAME   IEWL      SYSTEM CORE    168K  DISKS USED/IO 004/000000374  STOP   TIME 18:09:32  SRB TIME 00:00:00.01 *
*  COND CODE  0000     PRIVATE AREA SZ 4096K  ALLOC TIME 18:09:32  ELAPSED TIME          PGM LOAD 18:09:32 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*  004      1913    00:00:00.06          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.01) + EXCP $ ( 0.50) + MEMORY $ ( 0.02) = TOTAL $ ( 0.53)                               *
*****
IEF236I  ALLOC. FOR VSTESTK2 GO PL1F
IEF237I  251  ALLOCATED TO PGM=*.DD
IEF237I  253  ALLOCATED TO STEPLIB
IEF237I  253  ALLOCATED TO
IEF237I  253  ALLOCATED TO SYS00330
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  JES2 ALLOCATED TO PRINTR
IEF237I  190  ALLOCATED TO IMAGES
IEF237I  190  ALLOCATED TO SYS00332
IEF237I  JES2 ALLOCATED TO SYSUDUMP
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  190  ALLOCATED TO KSDSF01
IEF142I  VSTESTK2 GO PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS20189.T180932.RA000.VSTESTK2.GOSET      KEPT      *-----0
IEF285I  VOL SER NOS= WORK00.
IEF285I  SYSC.PL1LIB      KEPT      *-----0
IEF285I  VOL SER NOS= SYSCPK.
IEF285I  SYSC.PL1LIB      KEPT      *-----0
IEF285I  VOL SER NOS= SYSCPK.
IEF285I  UCSYSCPK      KEPT      *-----0
IEF285I  VOL SER NOS= SYSCPK.
IEF285I  JES2.JOB00150.SO0103      SYSOUT
IEF285I  JES2.JOB00150.SO0104      SYSOUT
IEF285I  PUB001.VSAMTEST.DATA      KEPT      *-----11
IEF285I  VOL SER NOS= PUB001.
IEF285I  UCPUB001      KEPT      *-----0
IEF285I  VOL SER NOS= PUB001.
IEF285I  JES2.JOB00150.SO0105      SYSOUT
IEF285I  JES2.JOB00150.SO0106      SYSOUT
IEF285I  PUB001.VSTESTKS.CLUSTER    KEPT      *-----5
IEF285I  VOL SER NOS= PUB001.
IEF373I  STEP /GO      / START 20189.1809
IEF374I  STEP /GO      / STOP  20189.1809 CPU      OMIN 00.02SEC SRB      OMIN 00.00SEC VIRT  112K SYS  180K
*****
*                               PRC-CCI 370/148 VS2 R03.8  HMVS  STEP STATISTICS                               *
*  STEP NAME  GO      USER CORE      112K  TAPES USED/IO 000/000000000  START  TIME 18:09:32  TCB TIME 00:00:00.02 *
*  PGM NAME   PGM=*.DD  SYSTEM CORE    180K  DISKS USED/IO 003/000000016  STOP   TIME 18:09:32  SRB TIME 00:00:00.00 *
*  COND CODE  0000     PRIVATE AREA SZ 4096K  ALLOC TIME 18:09:32  ELAPSED TIME          PGM LOAD 18:09:32 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*  004      108    00:00:00.02          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.00) + EXCP $ ( 0.02) + MEMORY $ ( 0.00) = TOTAL $ ( 0.02)                               *
*****
IEF237I  251  ALLOCATED TO SYS00001
IEF285I  SYS20189.T180932.RA000.VSTESTK2.R0000001    KEPT      *-----0
IEF285I  VOL SER NOS= WORK00.
IEF285I  SYS20189.T180932.RA000.VSTESTK2.GOSET      DELETED

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IEF285I VOL SER NOS= WORK00.
IEF375I JOB /VSTESTK2/ START 20189.1809
IEF376I JOB /VSTESTK2/ STOP 20189.1809 CPU OMIN 00.22SEC SRB OMIN 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  /*****06550000
2                                     06560000
3      KSDSLOAD - TESTS THE VSAMIO ROUTINE BY LOADING A KSDS CLUSTER WITH 06570000
4          RECORDS FROM A SEQUENTIAL DATASET.                               06580000
5                                     06590000
6  *****/06600000
7  KSDSLOD:
8      PROCEDURE OPTIONS(MAIN);
9
10     ON ERROR
11         BEGIN;
12             ON ERROR SYSTEM;
13             PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');
14             PUT SKIP DATA;
15             PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');
16         END;
17
18     OPEN
19         FILE(IMAGES),
20         FILE(PRINTR) LINESIZE(121);
21
22     ON ENDFILE(IMAGES)
23         MORE_RECORDS = NO;
24
25     PRINT_AREA = 'KSDSLOAD: WRITE KSDS SEQUENTIALLY';
26     WRITE FILE(PRINTR) FROM(PRINT_LINE);
27     PRINT_AREA = '-----';
28     WRITE FILE(PRINTR) FROM(PRINT_LINE);
29     PRINT_AREA = ' ';
30     WRITE FILE(PRINTR) FROM(PRINT_LINE);
31
32     MORE_RECORDS = YES;
33
34 /*****06880000
35     ESTABLISH PARAMETERS FOR VSAM DATASET AND CALL ROUTINE TO OPEN 06890000
36 *****/06900000
37     VSFB_DDNAME = 'KSDSF01';
38     VSFB_ORGANIZATION = VSIO_KSDS;
39     VSFB_ACCESS = VSIO_SEQUENTIAL;
40     VSFB_MODE = VSIO_OUTPUT;
41     VSFB_RECORD_LENGTH = 80;
42     VSFB_KEY_POSITION = 0;
43     VSFB_KEY_LENGTH = 10;
44     VSIO_COMMAND = VSIO_OPEN;
```

MACRO SOURCE2 LISTING

```
45     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,          06990000
46                   VSIO_FILE_BLOCK,              07000000
47                   RECORD_IMAGE);                 07010000
48     IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN 07020000
49     DO;                                           07030000
50         CALL VSIO_ERROR;                          07040000
51         RETURN;                                   07050000
52     END;                                          07060000
53                                               07070000
54     DO WHILE(MORE_RECORDS);                       07080000
55     READ FILE(IMAGES) INTO(RECORD_IMAGE);        07090000
56     IF (MORE_RECORDS) THEN                       07100000
57     CALL WRITE_KS;                               07110000
58     END;                                          07120000
59                                               07130000
60     CLOSE FILE(IMAGES);                          07140000
61                                               07150000
62 /*****07160000
63     CALL ROUTINE TO CLOSE VSAM DATASET            07170000
64     *****/07180000
65     VSIO_COMMAND = VSIO_CLOSE;                   07190000
66     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,          07200000
67                   VSIO_FILE_BLOCK,              07210000
68                   RECORD_IMAGE);                 07220000
69     IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN 07230000
70     CALL VSIO_ERROR;                             07240000
71                                               07250000
72     COUNTER_EDIT = RECORD_COUNTER;               07260000
73     PRINT_AREA = COUNTER_EDIT ||                07270000
74     ' RECORDS WERE LOADED SUCCESSFULLY';         07280000
75     WRITE FILE(PRINTR) FROM(PRINT_LINE);         07290000
76                                               07300000
77     RETURN;                                       07310000
78                                               07320000
79 WRITE_KS:                                        07330000
80     PROCEDURE;                                    07340000
81                                               07350000
82 /*****07360000
83     CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET 07370000
84     *****/07380000
85     VSIO_COMMAND = VSIO_WRITE;                   07390000
86     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,          07400000
87                   VSIO_FILE_BLOCK,              07410000
88                   RECORD_IMAGE);                 07420000
89     IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN 07430000
```


MACRO SOURCE2 LISTING

```
90          CALL VSIO_ERROR;                                07440000
91          ELSE                                           07450000
92              RECORD_COUNTER = RECORD_COUNTER + 1;       07460000
93                                                     07470000
94          RETURN;                                         07480000
95                                                     07490000
96      END WRITE_KS;                                       07500000
97                                                     07510000
98  VSIO_ERROR:                                           07520000
99      PROCEDURE;                                         07530000
100         PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' || 07540000
101             VSIO_COMMAND;                               07550000
102         WRITE FILE(PRINTR) FROM(PRINT_LINE);           07560000
103         PRINT_AREA = 'VSIO_RETURN_CODE = ' ||          07570000
104             VSIO_RETURN_CODE;                           07580000
105         WRITE FILE(PRINTR) FROM(PRINT_LINE);           07590000
106         PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||     07600000
107             VSIO_VSAM_RETURN_CODE;                       07610000
108         WRITE FILE(PRINTR) FROM(PRINT_LINE);           07620000
109         PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||   07630000
110             VSIO_VSAM_FUNCTION_CODE;                     07640000
111         WRITE FILE(PRINTR) FROM(PRINT_LINE);           07650000
112         PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||   07660000
113             VSIO_VSAM_FEEDBACK_CODE;                     07670000
114         WRITE FILE(PRINTR) FROM(PRINT_LINE);           07680000
115         PRINT_AREA = ' ';                               07690000
116                                                     07700000
117         RETURN;                                         07710000
118                                                     07720000
119     END VSIO_ERROR;                                     07730000
120                                                     07740000
121     DECLARE                                           07750000
122         IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL  07760000
123         ENV(F),                                         07770000
124         PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL 07780000
125         ENV(F CTLASA);                                  07790000
126                                                     07800000
127     DECLARE                                           07810000
128         COUNTER_EDIT          PICTURE 'ZZ,ZZZ,ZZ9V',    07820000
129         MORE_RECORDS          BIT(1),                    07830000
130         NO                     BIT(1) INIT('0'B),       07840000
131         RECORD_COUNTER        FIXED BINARY(15,0),       07850000
132         YES                    BIT(1) INIT('1'B);       07860000
133                                                     07870000
134     DECLARE                                           07880000
```

MACRO SOURCE2 LISTING

```
135      1 RECORD_IMAGE,                                07890000
136          2 RECORD_FIELDS                          CHAR(80);      07900000
137                                                    07910000
138      DECLARE                                        07920000
139          1 PRINT_LINE,                              07930000
140              2 CARRIAGE_CONTROL                    CHAR(1)  INIT(' '), 07940000
141              2 PRINT_AREA                          CHAR(120);    07950000
142                                                    07960000
143      %INCLUDE (VSAMIO);                             07970000
144      %INCLUDE (VSAMIOFB);                           07980000
145                                                    07990000
146      END KSDSLOD;                                   08000000
```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIO

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

MACRO SOURCE2 LISTING

```
176      2 VSIO_START_NOTLESS   CHAR(8)   INIT('STARTGE '),      31390000
177      2 VSIO_KSDS             CHAR(4)   INIT('KSDS'),          31400000
178      2 VSIO_ESDS              CHAR(4)   INIT('ESDS'),          31410000
179      2 VSIO_RRDS              CHAR(4)   INIT('RRDS'),          31420000
180      2 VSIO_SEQUENTIAL        CHAR(10)  INIT('SEQUENTIAL'),    31430000
181      2 VSIO_DIRECT            CHAR(10)  INIT('DIRECT '),       31440000
182      2 VSIO_DYNAMIC           CHAR(10)  INIT('DYNAMIC '),      31450000
183      2 VSIO_INPUT             CHAR(6)   INIT('INPUT '),        31460000
184      2 VSIO_OUTPUT           CHAR(6)   INIT('OUTPUT'),        31470000
185      2 VSIO_INPUT_OUTPUT     CHAR(6)   INIT('UPDATE'),        31480000
186      2 (VSIO_RC_SUCCESS      INIT(0),      31490000
187          VSIO_RC_LOGIC_ERROR  INIT(8),      31500000
188          VSIO_RC_END_OF_FILE  INIT(9999),   31510000
189          VSIO_RC_UNKNOWN_COMMAND  INIT(20),    31520000
190          VSIO_RC_DATASET_ALREADY_OPEN  INIT(21),    31530000
191          VSIO_RC_DATASET_NOT_OPEN  INIT(22),    31540000
192          VSIO_RC_ORGANIZATION_UNKNOWN  INIT(23),    31550000
193          VSIO_RC_ACCESS_UNKNOWN  INIT(24),    31560000
194          VSIO_RC_ORG_ACCESS_MISMATCH  INIT(25),    31570000
195          VSIO_RC_MODE_UNKNOWN  INIT(26),    31580000
196          VSIO_RC_MODE_UNSUPPORTED  INIT(27),    31590000
197          VSIO_RC_DDNAME_BLANK  INIT(28))    31600000
198          FIXED BINARY(15,0),    31610000
199      2 (VSIO_FB_DUPLICATE_RECORD  INIT(8),      31620000
200          VSIO_FB_KEY_SEQUENCE  INIT(12),     31630000
201          VSIO_FB_RECORD_NOT_FOUND  INIT(16),     31640000
202          VSIO_FB_NO_MORE_SPACE  INIT(28),     31650000
203          VSIO_FB_READ_WITHOUT_START  INIT(88))    31660000
204          FIXED BINARY(15,0),    31670000
205  /*****31680000
206      THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE 31690000
207      THE ROUTINE. 31700000
208  *****/31710000
209  31720000
210      1 VSIO_PARAMETER_BLOCK  STATIC,      31730000
211          2 VSIO_COMMAND      CHAR(8)   INIT(' '),      31740000
212          2 (VSIO_RETURN_CODE, 31750000
213              VSIO_VSAM_RC,    31760000
214              VSIO_VSAM_FUNCTION, 31770000
215              VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0); 31780000
216  31790000
217  /*****31800000
218      END OF VSAMIO COPY BOOK 31810000
219  *****/31820000
```

MACRO SOURCE2 LISTING

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIOFB

```

220 /*****00000100
221                                     00000200
222     VV  VV  SSSSS  A    M    M  IIII  OOOOO  FFFFFFFF  BBBBBB  00000300
223     VV  VV  SS   SS   AAA  MM   MM  II   OO   OO  FF      BB   BB  00000400
224     VV  VV  SS           AA AA  MMM MMM  II   OO   OO  FF      BB   BB  00000500
225     VV  VV  SSSSS  AA   AA  MMMMMMMM  II   OO   OO  FFFFFF  BBBBBB  00000600
226     VV  VV           SS  AA   AA  MM M MM  II   OO   OO  FF      BB   BB  00000700
227     VV VV  SS   SS  AAAAAA  MM   MM  II   OO   OO  FF      BB   BB  00000800
228     VVV           SS   SS  AA   AA  MM   MM  II   OO   OO  FF      BB   BB  00000900
229     V           SSSSS  AA   AA  MM   MM  IIII  OOOOO  FF      BBBBBB  00001000
230                                     00001100
231 *****/00001200
232     THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 00001300
233     ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE 00001400
234     VSAM DATASET. 00001500
235                                     00001600
236     WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE 00001700
237     LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD 00001800
238     DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE 00001900
239     ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE 00002000
240     DATASET HAS BEEN CLOSED. 00002100
241 *****/00002200
242                                     00002300
243     DECLARE 00002400
244     1 VSIO_FILE_BLOCK          STATIC, 00002500
245     2 VSFB_DDNAME              CHAR(8)  INIT(' '), 00002600
246     2 VSFB_ORGANIZATION        CHAR(4)  INIT(' '), 00002700
247     2 VSFB_ACCESS               CHAR(10) INIT(' '), 00002800
248     2 VSFB_MODE                 CHAR(6)  INIT(' '), 00002900
249     2 (VSFB_RECORD_LENGTH,      00003000
250     VSFB_KEY_POSITION,          00003100
251     VSFB_KEY_LENGTH)          FIXED BINARY(15,0) INIT(0), 00003200
252     2 VSFB_FILE_STATUS          CHAR(1)  INIT('C'), 00003300
253     2 VSFB_RESERVED             CHAR(161); 00003400
254                                     00003500
255 /*****00003600
256                                     END OF VSAMIOFB COPY BOOK 00003700
257 *****/00003800

```

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

SOURCE LISTING.

```

/*****
KSDSLOAD - TESTS THE VSAMIO ROUTINE BY LOADING A KSDS CLUSTER WITH
RECORDS FROM A SEQUENTIAL DATASET.
*****/
1      KSDSLOAD:
2          PROCEDURE OPTIONS(MAIN);
3              ON ERROR
4                  BEGIN;
5                      ON ERROR SYSTEM;
6                      PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');
7                      PUT SKIP DATA;
8                      PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');
9                  END;
10             OPEN
11                 FILE(IMAGES),
12                 FILE(PRINTR) LINESIZE(121);
13             ON ENDFILE(IMAGES)
14                 MORE_RECORDS = NO;
15             PRINT_AREA = 'KSDSLOAD: WRITE KSDS SEQUENTIALLY';
16             WRITE FILE(PRINTR) FROM(PRINT_LINE);
17             PRINT_AREA = '-----';
18             WRITE FILE(PRINTR) FROM(PRINT_LINE);
19             PRINT_AREA = ' ';
20             WRITE FILE(PRINTR) FROM(PRINT_LINE);
21             MORE_RECORDS = YES;
22
23         /*****
24             ESTABLISH PARAMETERS FOR VSAM DATASET AND CALL ROUTINE TO OPEN
25         *****/
26         VSFB_DDNAME = 'KSDSF01';
27         VSFB_ORGANIZATION = VSIO_KSDS;
28         VSFB_ACCESS = VSIO_SEQUENTIAL;
29         VSFB_MODE = VSIO_OUTPUT;
30         VSFB_RECORD_LENGTH = 80;
31
32
33
34
35
36
37
38
39
40
41

```

```
24      VSFB_KEY_POSITION = 0;          42
25      VSFB_KEY_LENGTH = 10;         43
26      VSIO_COMMAND = VSIO_OPEN;     44
27      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 45
                VSIO_FILE_BLOCK,      46
                RECORD_IMAGE);        47
28      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 48
29          DO;                        49
30              CALL VSIO_ERROR;       50
31              RETURN;               51
32          END;                       52
33      DO WHILE(MORE_RECORDS);        53
34          READ FILE(IMAGES) INTO(RECORD_IMAGE); 54
35          IF (MORE_RECORDS) THEN    55
36              CALL WRITE_KS;        56
37          END;                       57
38      CLOSE FILE(IMAGES);           58
39      CALL ROUTINE TO CLOSE VSAM DATASET 59
40      VSIO_COMMAND = VSIO_CLOSE;     60
41      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 61
                VSIO_FILE_BLOCK,      62
                RECORD_IMAGE);        63
42      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 64
43          CALL VSIO_ERROR;           65
44      COUNTER_EDIT = RECORD_COUNTER; 66
45      PRINT_AREA = COUNTER_EDIT || 67
                ' RECORDS WERE LOADED SUCCESSFULLY'; 68
46      WRITE FILE(PRINTR) FROM(PRINT_LINE); 69
47      RETURN;                       70
48      WRITE_KS:                     71
49      PROCEDURE;                    72
50      CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET 73
51      VSIO_COMMAND = VSIO_WRITE;     74
52      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 75
```

```

                VSIO_FILE_BLOCK,
                RECORD_IMAGE);
50      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN
51          CALL VSIO_ERROR;
52      ELSE
52          RECORD_COUNTER = RECORD_COUNTER + 1;
53      RETURN;
54      END WRITE_KS;
55      VSIO_ERROR:
        PROCEDURE;
56          PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' ||
                VSIO_COMMAND;
57          WRITE FILE(PRINTR) FROM(PRINT_LINE);
58          PRINT_AREA = 'VSIO_RETURN_CODE = ' ||
                VSIO_RETURN_CODE;
59          WRITE FILE(PRINTR) FROM(PRINT_LINE);
60          PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||
                VSIO_VSAM_RETURN_CODE;
61          WRITE FILE(PRINTR) FROM(PRINT_LINE);
62          PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||
                VSIO_VSAM_FUNCTION_CODE;
63          WRITE FILE(PRINTR) FROM(PRINT_LINE);
64          PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||
                VSIO_VSAM_FEEDBACK_CODE;
65          WRITE FILE(PRINTR) FROM(PRINT_LINE);
66          PRINT_AREA = ' ';
67      RETURN;
68      END VSIO_ERROR;
69      DECLARE
        IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL
            ENV(F),
        PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL
            ENV(F CTLASA);
70      DECLARE
        COUNTER_EDIT          PICTURE 'ZZ,ZZZ,ZZ9V',
        MORE_RECORDS          BIT(1),
        NO                     BIT(1)    INIT('0'B),
        RECORD_COUNTER        FIXED BINARY(15,0),
        YES                    BIT(1)    INIT('1'B);
```

```

71      DECLARE                                134
          1 RECORD_IMAGE,                      135
          2 RECORD_FIELDS                      CHAR(80); 136
                                                137
72      DECLARE                                138
          1 PRINT_LINE,                       139
          2 CARRIAGE_CONTROL                  CHAR(1)  INIT(' '), 140
          2 PRINT_AREA                        CHAR(120); 141
                                                142
/*06550000 147
          VV  VV  SSSSS  A  M  M  IIII  OOOO  147
          VV  VV  SS  SS  AAA  MM  MM  II  OO  OO  147
          VV  VV  SS  AA  AA  MMM  MMM  II  OO  OO  147
          VV  VV  SSSSS  AA  AA  MMMMMMMM  II  OO  OO  147
          VV  VV  SS  AA  AA  MM  M  MM  II  OO  OO  147
          VV  VV  SS  SS  AAAAAA  MM  MM  II  OO  OO  147
          VVV  SS  SS  AA  AA  MM  MM  II  OO  OO  147
          V  SSSSS  AA  AA  MM  MM  IIII  OOOO  147
          147
          ***** 147
          THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 147
          ROUTINE. 147
          147
          THE VSIO_PARAMETER_VALUES SUPPLY THE VALUES USED TO MOVE INTO 147
          PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET AND 147
          TO PROVIDE COMMANDS TO DRIVE THE ROUTINE. 147
          *****/ 147
73      DECLARE                                165
          1 VSIO_PARAMETER_VALUES            STATIC, 166
          2 VSIO_OPEN                        CHAR(8)  INIT('OPEN  '), 167
          2 VSIO_CLOSE                       CHAR(8)  INIT('CLOSE '), 168
          2 VSIO_READ                        CHAR(8)  INIT('READ  '), 169
          2 VSIO_WRITE                       CHAR(8)  INIT('WRITE '), 170
          2 VSIO_REWRITE                     CHAR(8)  INIT('REWRITE '), 171
          2 VSIO_DELETE                      CHAR(8)  INIT('DELETE '), 172
          2 VSIO_START_EQUAL                 CHAR(8)  INIT('STARTEQ '), 173
          2 VSIO_START_NOTLESS               CHAR(8)  INIT('STARTGE '), 174
          2 VSIO_KSDS                        CHAR(4)  INIT('KSDS'), 175
          2 VSIO_ESDS                        CHAR(4)  INIT('ESDS'), 176
          2 VSIO_RRDS                        CHAR(4)  INIT('RRDS'), 177
          2 VSIO_SEQUENTIAL                  CHAR(10) INIT('SEQUENTIAL'), 178
          2 VSIO_DIRECT                      CHAR(10) INIT('DIRECT '), 179
          2 VSIO_DYNAMIC                     CHAR(10) INIT('DYNAMIC '), 180
          2 VSIO_INPUT                       CHAR(6)  INIT('INPUT '), 181
          2 VSIO_OUTPUT                      CHAR(6)  INIT('OUTPUT'), 182
          183
          184

```



```

2 VSIO_INPUT_OUTPUT CHAR(6) INIT('UPDATE'), 185
2 (VSIO_RC_SUCCESS INIT(0), 186
  VSIO_RC_LOGIC_ERROR INIT(8), 187
  VSIO_RC_END_OF_FILE INIT(9999), 188
  VSIO_RC_UNKNOWN_COMMAND INIT(20), 189
  VSIO_RC_DATASET_ALREADY_OPEN INIT(21), 190
  VSIO_RC_DATASET_NOT_OPEN INIT(22), 191
  VSIO_RC_ORGANIZATION_UNKNOWN INIT(23), 192
  VSIO_RC_ACCESS_UNKNOWN INIT(24), 193
  VSIO_RC_ORG_ACCESS_MISMATCH INIT(25), 194
  VSIO_RC_MODE_UNKNOWN INIT(26), 195
  VSIO_RC_MODE_UNSUPPORTED INIT(27), 196
  VSIO_RC_DDNAME_BLANK INIT(28)) 197
  FIXED BINARY(15,0), 198
2 (VSIO_FB_DUPLICATE_RECORD INIT(8), 199
  VSIO_FB_KEY_SEQUENCE INIT(12), 200
  VSIO_FB_RECORD_NOT_FOUND INIT(16), 201
  VSIO_FB_NO_MORE_SPACE INIT(28), 202
  VSIO_FB_READ_WITHOUT_START INIT(88)) 203
  FIXED BINARY(15,0), 204

```

```

/*****
THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE
THE ROUTINE.
*****/

```

```

1 VSIO_PARAMETER_BLOCK STATIC, 210
2 VSIO_COMMAND CHAR(8) INIT(' '), 211
2 (VSIO_RETURN_CODE, 212
  VSIO_VSAM_RC, 213
  VSIO_VSAM_FUNCTION, 214
  VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0); 215

```

```

/*****
END OF VSAMIO COPY BOOK
*****/

```

```

VV VV SSSSS A M M IIII OOOO FFFFFFFF BBBBBB 220
VV VV SS SS AAA MM MM II OO OO FF BB BB 220
VV VV SS AA AA MMM MMM II OO OO FF BB BB 220
VV VV SSSSS AA AA MMMMMMMM II OO OO FFFFFF BBBBBB 220
VV VV SS AA AA MM M MM II OO OO FF BB BB 220
VV VV SS SS AAAAAA MM MM II OO OO FF BB BB 220
VVV SS SS AA AA MM MM II OO OO FF BB BB 220
V SSSSS AA AA MM MM IIII OOOO FF BBBBBB 220

```

```

*****

```

THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE VSAM DATASET.

WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED.

*****/

74

```
DECLARE
  1 VSIO_FILE_BLOCK          STATIC,
  2 VSFB_DDNAME              CHAR(8)   INIT(' '),
  2 VSFB_ORGANIZATION        CHAR(4)   INIT(' '),
  2 VSFB_ACCESS              CHAR(10)  INIT(' '),
  2 VSFB_MODE                CHAR(6)   INIT(' '),
  2 (VSFB_RECORD_LENGTH,
    VSFB_KEY_POSITION,
    VSFB_KEY_LENGTH)        FIXED BINARY(15,0) INIT(0),
  2 VSFB_FILE_STATUS         CHAR(1)   INIT('C'),
  2 VSFB_RESERVED           CHAR(161);
```

*****/

END OF VSAMIOFB COPY BOOK

*****/

75

END KSDSLD;

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) 43,44
69	IMAGES	FILE,EXTERNAL,INPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F) 9,10,34,38
1	***** KSDSLOD	ENTRY,BINARY,FIXED(15,0)
70	MORE_RECORDS	AUTOMATIC,UNALIGNED,STRING(1),BIT 11,18,33,35
70	NO	AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT 11
72	PRINT_AREA	IN PRINT_LINE,AUTOMATIC,UNALIGNED,STRING(120),CHARACTER 12,14,16,44,56,58,60,62,64,66
72	PRINT_LINE	AUTOMATIC,STRUCTURE 13,15,17,45,57,59,61,63,65
69	PRINTR	FILE,EXTERNAL,OUTPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F CTLASA) 9,13,15,17,45,57,59,61,63,65
70	***** RECORD_COUNTER	AUTOMATIC,ALIGNED,BINARY,FIXED(15,0) 43,52,52
71	RECORD_FIELDS	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(80),CHARACTER
71	RECORD_IMAGE	AUTOMATIC,STRUCTURE 27,34,40,49
	SYSPRINT	FILE,EXTERNAL 5,6,7
	VSAMIOP	EXTERNAL,ENTRY,DECIMAL,FLOAT(SINGLE) 27,40,49
74	VSFBI_ACCESS	IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(10),CHARACTER 21

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
74	VFSB_DDNAME	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 19
74	VFSB_FILE_STATUS	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(1), CHARACTER
74	***** VFSB_KEY_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 25
74	***** VFSB_KEY_POSITION	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 24
74	VFSB_MODE	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(6), CHARACTER 22
74	VFSB_ORGANIZATION	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(4), CHARACTER 20
74	***** VFSB_RECORD_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 23
74	VFSB_RESERVED	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, STRING(161), CHARACTER
73	VSIO_CLOSE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 39
73	VSIO_COMMAND	IN VSIO_PARAMETER_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 26, 39, 48, 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) 30, 42, 51
73	VSIO_ESDS	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(4), CHARACTER

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
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 27,40,49
73	VSIO_INPUT	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(6), CHARACTER
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 20
73	VSIO_OPEN	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 26
73	VSIO_OUTPUT	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(6), CHARACTER 22
73	VSIO_PARAMETER_BLOCK	STATIC, STRUCTURE 27,40,49
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)
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) 28,41,50
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
73	***** VSIO_RETURN_CODE	IN VSIO_PARAMETER_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0) 28,41,50,58
73	VSIO_REWRITE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
73	VSIO_RRDS	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(4),

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
		CHARACTER
73	VSIO_SEQUENTIAL	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER 21
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 48
47	WRITE_KS	ENTRY, DECIMAL, FLOAT(SINGLE) 36
70	YES	AUTOMATIC, UNALIGNED, INITIAL, STRING(1), BIT 18

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 KSDSLOD IS 520 BYTES LONG.
THE STORAGE AREA FOR THE ON UNIT AT STATEMENT NO. 3 IS 184 BYTES LONG.
THE STORAGE AREA FOR THE ON UNIT AT STATEMENT NO. 10 IS 176 BYTES LONG.
THE STORAGE AREA (IN STATIC) FOR THE PROCEDURE LABELLED WRITE_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 KSDSLOD AND IS 1682 BYTES LONG.
THE STATIC CSECT IS NAMED KSDSLODA AND IS 5496 BYTES LONG.

STATISTICS MACRO RECORDS = 257, SOURCE RECORDS = 259, PROG TEXT STMNTS = 75, OBJECT BYTES = 1682

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 ON UNIT

OFFSET (HEX)	0000	0048	0052
STATEMENT NO	11	11	

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN PROCEDURE WRITE_KS

OFFSET (HEX)	0000	0038	003E	005E	006A	0078	0088	008E
STATEMENT NO	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 KSDSLOD

OFFSET (HEX)	0000	00D4	00E2	00EC	00FA	0106	011E	012A	0142	014E	0166	016C	0172	0178	017E	0184	018A	0190	0196	019C	01B8
STATEMENT NO	1	2	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

OFFSET (HEX)	01C4	01C4	01CE	01D4	01D4	01DC	01F4	01FC	0206	020A	0214	021A	0236	0242	024C	0266	0282	029A	02A0
STATEMENT NO	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	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.

KSDSLOAD: WRITE KSDS SEQUENTIALLY

100 RECORDS WERE LOADED SUCCESSFULLY