

J E S 2 J O B L O G

18.01.10 JOB 145 IEF677I WARNING MESSAGE(S) FOR JOB VSTESTE2 ISSUED  
18.01.10 JOB 145 \$HASP373 VSTESTE2 STARTED - INIT 1 - CLASS A - SYS HMVS  
18.01.10 JOB 145 IEF403I VSTESTE2 - STARTED - TIME=18.01.10  
18.01.11 JOB 145 CCI001C PL1L /IEMAA /00:00:00.16/ /00004/SYS /VSTESTE2  
18.01.11 JOB 145 CCI001C LKED /IEWL /00:00:00.05/ /00000/SYS /VSTESTE2  
18.01.11 JOB 145 CCI001C GO /PGM=\*.DD/00:00:00.02/ /00000/SYS /VSTESTE2  
18.01.11 JOB 145 IEF404I VSTESTE2 - ENDED - TIME=18.01.11  
18.01.11 JOB 145 \$HASP395 VSTESTE2 ENDED

----- 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 //VSTESTE2 JOB (SYS), 'VSAMIOP IVP ESDSLOAD', CLASS=A, MSGCLASS=X, JOB 145
// REGION=4096K
***
*****
*** PL/1 MODULE: ESDSLOAD VSAM DATASET: VSTESTES.CLUSTER (ESDS)
***
*** SEQUENTIALLY LOADS ENTRY SEQUENCED DATASET
*****
***
2 //PL1F EXEC PL1LFCLG,
// PARM='LOAD,NODECK,ATR,XREF,CHAR60,MACRO'
3 XXPL1L EXEC PGM=IEMAA,PARM='LOAD,NODECK',REGION=52K 00000100
4 XXSTEPLIB DD DSN=SYSC.LINKLIB,DISP=SHR 00000200
5 //PL1L.SYSPRINT DD SYSOUT=*
X/SYSPRINT DD SYSOUT=A 00000300
6 XXSYSLIN DD DSNAME=&&LOADSET,DISP=(MOD,PASS),UNIT=SYSSQ, *00000400
XX SPACE=(80,(250,100)) 00000500
7 XXSYSUT3 DD DSNAME=&&SYSUT3,UNIT=SYSDA,SPACE=(80,(250,250)), *00000600
XX DCB=BLKSIZE=80 00000700
8 XXSYSUT1 DD DSNAME=&&SYSUT1,UNIT=SYSDA,SPACE=(1024,(60,60),,CONTIG), *00000800
XX SEP=(SYSUT3,SYSLIN),DCB=BLKSIZE=1024 00000900
9 //PL1L.SYSLIB DD DSN=SYSC.VSAMIOP.MACLIB,DISP=SHR
10 //PL1L.SYSIN DD DSN=SYSC.VSAMIOP.SOURCE(ESDSLOAD),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.ESDSF01 DD DSN=PUB001.VSTESTES.CLUSTER,DISP=OLD

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STMT NO. MESSAGE

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-
  19      IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR VSTESTE2 PL1L PL1F
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO SYS00294
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 380  ALLOCATED TO SYSLIN
IEF237I 251  ALLOCATED TO SYSUT3
IEF237I 370  ALLOCATED TO SYSUT1
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 253  ALLOCATED TO SYSIN
IEF142I VSTESTE2 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.JOB00145.SO0101      SYSOUT
IEF285I   SYS20189.T180110.RA000.VSTESTE2.LOADSET PASSED      *-----210
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYS20189.T180110.RA000.VSTESTE2.SYSUT3  DELETED     *-----261
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T180110.RA000.VSTESTE2.SYSUT1  DELETED     *-----0
IEF285I   VOL SER NOS= MVS370.
IEF285I   SYSC.VSAMIOP.MACLIB       KEPT          *-----27
IEF285I   VOL SER NOS= SYSCPK.
IEF285I   SYSC.VSAMIOP.SOURCE       KEPT          *-----3
IEF285I   VOL SER NOS= SYSCPK.
IEF373I STEP /PL1L      / START 20189.1801
IEF374I STEP /PL1L      / STOP  20189.1801 CPU      0MIN 00.16SEC SRB      0MIN 00.04SEC VIRT  4096K SYS   212K
**** JOBCARD READ 20189 18:01:10 ****
*
*          PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS
* STEP NAME  PL1L      USER CORE      4096K  TAPES USED/IO 000/000000000  START  TIME  18:01:10  TCB TIME  00:00:00.16  *
* PGM NAME   IEMAA     SYSTEM CORE    212K   DISKS USED/IO 004/000000501  STOP   TIME  18:01:11  SRB TIME  00:00:00.04  *
* COND CODE  0004     PRIVATE AREA SZ  4096K   ALLOC TIME  18:01:10      ELAPSED TIME          PGM LOAD  18:01:10  *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*  004          2717   00:00:00.23          0          0          0          0          0          0          0          0          *
*****
* CPU $ (    0.05) + EXCP $ (    0.67) + MEMORY $ (    1.86) = TOTAL $ (    2.58)
*****
IEF236I ALLOC. FOR VSTESTE2 LKED PL1F
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 253  ALLOCATED TO
IEF237I 253  ALLOCATED TO SYS00296
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 VSTESTE2 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.T180110.RA000.VSTESTE2.GOSET  PASSED      *-----57
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T180110.RA000.VSTESTE2.SYSUT1  DELETED     *-----0
IEF285I   VOL SER NOS= MVS370.
IEF285I   JES2.JOB00145.SO0102      SYSOUT

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IEF285I  SYS20189.T180110.RA000.VSTESTE2.LOADSET      DELETED      *-----211
IEF285I  VOL SER NOS= MVS380.
IEF373I  STEP /LKED      / START 20189.1801
IEF374I  STEP /LKED      / STOP  20189.1801 CPU      OMIN 00.05SEC 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 18:01:11  TCB TIME 00:00:00.05 *
* PGM NAME  IEWL      SYSTEM CORE      168K  DISKS USED/IO 004/000000374  STOP   TIME 18:01:11  SRB TIME 00:00:00.01 *
* COND CODE 0000      PRIVATE AREA SZ  4096K  ALLOC TIME 18:01:11  ELAPSED TIME          PGM LOAD 18:01:11 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004      1916      00:00:00.08          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.01) + EXCP $ ( 0.50) + MEMORY $ ( 0.03) = TOTAL $ ( 0.54)
*****
IEF236I  ALLOC. FOR VSTESTE2 GO PL1F
IEF237I  251  ALLOCATED TO PGM=*.DD
IEF237I  253  ALLOCATED TO STEPLIB
IEF237I  253  ALLOCATED TO
IEF237I  253  ALLOCATED TO SYS00298
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  JES2 ALLOCATED TO PRINTR
IEF237I  190  ALLOCATED TO IMAGES
IEF237I  190  ALLOCATED TO SYS00300
IEF237I  JES2 ALLOCATED TO SYSUDUMP
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  190  ALLOCATED TO ESDSF01
IEF142I  VSTESTE2 GO PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS20189.T180110.RA000.VSTESTE2.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.JOB00145.SO0103      SYSOUT
IEF285I  JES2.JOB00145.SO0104      SYSOUT
IEF285I  PUB001.VSAMTEST.DATA      KEPT      *-----11
IEF285I  VOL SER NOS= PUB001.
IEF285I  UCPUB001      KEPT      *-----0
IEF285I  VOL SER NOS= PUB001.
IEF285I  JES2.JOB00145.SO0105      SYSOUT
IEF285I  JES2.JOB00145.SO0106      SYSOUT
IEF285I  PUB001.VSTESTES.CLUSTER      KEPT      *-----2
IEF285I  VOL SER NOS= PUB001.
IEF373I  STEP /GO      / START 20189.1801
IEF374I  STEP /GO      / STOP  20189.1801 CPU      OMIN 00.02SEC SRB      OMIN 00.00SEC VIRT  100K SYS  180K
*****
*
*          PRC-CCI 370/148 VS2 R03.8  HMVS  STEP STATISTICS
* STEP NAME  GO      USER CORE      100K  TAPES USED/IO 000/000000000  START  TIME 18:01:11  TCB TIME 00:00:00.02 *
* PGM NAME  PGM=*.DD  SYSTEM CORE      180K  DISKS USED/IO 003/000000013  STOP   TIME 18:01:11  SRB TIME 00:00:00.00 *
* COND CODE 0000      PRIVATE AREA SZ  4096K  ALLOC TIME 18:01:11  ELAPSED TIME          PGM LOAD 18:01:11 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004      92      00:00:00.02          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.00) + EXCP $ ( 0.01) + MEMORY $ ( 0.00) = TOTAL $ ( 0.01)
*****
IEF237I  251  ALLOCATED TO SYS00001
IEF285I  SYS20189.T180111.RA000.VSTESTE2.R0000001      KEPT      *-----0
IEF285I  VOL SER NOS= WORK00.
IEF285I  SYS20189.T180110.RA000.VSTESTE2.GOSET      DELETED

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IEF285I VOL SER NOS= WORK00.  
IEF375I JOB /VSTESTE2/ START 20189.1801  
IEF376I JOB /VSTESTE2/ STOP 20189.1801 CPU OMIN 00.23SEC 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  /*****01770000
2  01780000
3  ESDSLOAD - TESTS THE VSAMIO ROUTINE BY LOADING AN ESDS CLUSTER WITH 01790000
4  RECORDS FROM A SEQUENTIAL DATASET. 01800000
5  01810000
6  *****/01820000
7  ESDSLOD: 01830000
8  PROCEDURE OPTIONS(MAIN); 01840000
9  01850000
10 ON ERROR 01860000
11 BEGIN; 01870000
12 ON ERROR SYSTEM; 01880000
13 PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 01890000
14 PUT SKIP DATA; 01900000
15 PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 01910000
16 END; 01920000
17 01930000
18 OPEN 01940000
19 FILE(IMAGES), 01950000
20 FILE(PRINTR) LINESIZE(121); 01960000
21 01970000
22 ON ENDFILE(IMAGES) 01980000
23 MORE_RECORDS = NO; 01990000
24 02000000
25 PRINT_AREA = 'ESDSLOAD: WRITE ESDS SEQUENTIALLY'; 02010000
26 WRITE FILE(PRINTR) FROM(PRINT_LINE); 02020000
27 PRINT_AREA = '-----'; 02030000
28 WRITE FILE(PRINTR) FROM(PRINT_LINE); 02040000
29 PRINT_AREA = ' '; 02050000
30 WRITE FILE(PRINTR) FROM(PRINT_LINE); 02060000
31 02070000
32 MORE_RECORDS = YES; 02080000
33 02090000
34 /*****02100000
35 ESTABLISH PARAMETERS FOR VSAM DATASET AND CALL ROUTINE TO OPEN 02110000
36 *****/02120000
37 VSFB_DDNAME = 'ESDSF01'; 02130000
38 VSFB_ORGANIZATION = VSIO_ESDS; 02140000
39 VSFB_ACCESS = VSIO_SEQUENTIAL; 02150000
40 VSFB_MODE = VSIO_OUTPUT; 02160000
41 VSFB_RECORD_LENGTH = 80; 02170000
42 VSFB_KEY_POSITION = 0; 02180000
43 VSFB_KEY_LENGTH = 0; 02190000
44 VSIO_COMMAND = VSIO_OPEN; 02200000
```

## MACRO SOURCE2 LISTING

```
45     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,          02210000
46                   VSIO_FILE_BLOCK,              02220000
47                   RECORD_IMAGE);                 02230000
48     IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN  02240000
49     DO;                                           02250000
50         CALL VSIO_ERROR;                          02260000
51         RETURN;                                   02270000
52     END;                                          02280000
53                                               02290000
54     DO WHILE(MORE_RECORDS);                       02300000
55     READ FILE(IMAGES) INTO(RECORD_IMAGE);        02310000
56     IF (MORE_RECORDS) THEN                       02320000
57     CALL WRITE_ES;                               02330000
58     END;                                          02340000
59                                               02350000
60     CLOSE FILE(IMAGES);                          02360000
61                                               02370000
62 /*****02380000
63     CALL ROUTINE TO CLOSE VSAM DATASET            02390000
64     *****/02400000
65     VSIO_COMMAND = VSIO_CLOSE;                   02410000
66     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,          02420000
67                   VSIO_FILE_BLOCK,              02430000
68                   RECORD_IMAGE);                 02440000
69     IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN  02450000
70     CALL VSIO_ERROR;                             02460000
71                                               02470000
72     COUNTER_EDIT = RECORD_COUNTER;               02480000
73     PRINT_AREA = COUNTER_EDIT ||                 02490000
74     ' RECORDS WERE LOADED SUCCESSFULLY';         02500000
75     WRITE FILE(PRINTR) FROM(PRINT_LINE);         02510000
76                                               02520000
77     RETURN;                                       02530000
78                                               02540000
79 WRITE_ES:                                       02550000
80     PROCEDURE;                                    02560000
81                                               02570000
82 /*****02580000
83     CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET 02590000
84     *****/02600000
85     VSIO_COMMAND = VSIO_WRITE;                   02610000
86     CALL VSAMIOP (VSIO_PARAMETER_BLOCK,          02620000
87                   VSIO_FILE_BLOCK,              02630000
88                   RECORD_IMAGE);                 02640000
89     IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN  02650000
```



## MACRO SOURCE2 LISTING

```
90          CALL VSIO_ERROR;                                02660000
91      ELSE                                                02670000
92          RECORD_COUNTER = RECORD_COUNTER + 1;           02680000
93                                                    02690000
94      RETURN;                                             02700000
95                                                    02710000
96      END WRITE_ES;                                       02720000
97                                                    02730000
98      VSIO_ERROR:                                         02740000
99      PROCEDURE;                                         02750000
100         PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' || 02760000
101             VSIO_COMMAND;                               02770000
102         WRITE FILE(PRINTR) FROM(PRINT_LINE);           02780000
103         PRINT_AREA = 'VSIO_RETURN_CODE = ' ||          02790000
104             VSIO_RETURN_CODE;                           02800000
105         WRITE FILE(PRINTR) FROM(PRINT_LINE);           02810000
106         PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||     02820000
107             VSIO_VSAM_RETURN_CODE;                       02830000
108         WRITE FILE(PRINTR) FROM(PRINT_LINE);           02840000
109         PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||   02850000
110             VSIO_VSAM_FUNCTION_CODE;                     02860000
111         WRITE FILE(PRINTR) FROM(PRINT_LINE);           02870000
112         PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||   02880000
113             VSIO_VSAM_FEEDBACK_CODE;                     02890000
114         WRITE FILE(PRINTR) FROM(PRINT_LINE);           02900000
115         PRINT_AREA = ' ';                               02910000
116                                                    02920000
117         RETURN;                                         02930000
118                                                    02940000
119     END VSIO_ERROR;                                       02950000
120                                                    02960000
121     DECLARE                                             02970000
122         IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL  02980000
123         ENV(F),                                         02990000
124         PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL 03000000
125         ENV(F CTLASA);                                  03010000
126                                                    03020000
127     DECLARE                                             03030000
128         COUNTER_EDIT          PICTURE 'ZZ,ZZZ,ZZ9V',    03040000
129         MORE_RECORDS          BIT(1),                    03050000
130         NO                     BIT(1) INIT('0'B),       03060000
131         RECORD_COUNTER         FIXED BINARY(15,0),      03070000
132         YES                     BIT(1) INIT('1'B);      03080000
133                                                    03090000
134     DECLARE                                             03100000
```

## MACRO SOURCE2 LISTING

```

135      1 RECORD_IMAGE,                                03110000
136          2 RECORD_FIELDS                          CHAR(80);      03120000
137                                                    03130000
138      DECLARE                                        03140000
139          1 PRINT_LINE,                              03150000
140              2 CARRIAGE_CONTROL                    CHAR(1)  INIT(' '), 03160000
141              2 PRINT_AREA                          CHAR(120);    03170000
142                                                    03180000
143      %INCLUDE (VSAMIO);                             03190000
144      %INCLUDE (VSAMIOFB);                          03200000
145                                                    03210000
146      END ESDSLOD;                                  03220000

```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIO

```

147      /*****31100000
148                                                    31110000
149          VV  VV  SSSSS  A  M  M  IIII  OOOO  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  MMMMMM  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  OOOO  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

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## 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.

```

/*****
ESDSLOAD - TESTS THE VSAMIO ROUTINE BY LOADING AN ESDS CLUSTER WITH
RECORDS FROM A SEQUENTIAL DATASET.
*****/
1      ESDSLOD:
      PROCEDURE OPTIONS(MAIN);
2          ON ERROR
3              BEGIN;
4                  ON ERROR SYSTEM;
5                  PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');
6                  PUT SKIP DATA;
7                  PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*');
8              END;
9          OPEN
      FILE(IMAGES),
      FILE(PRINTR) LINESIZE(121);
10         ON ENDFILE(IMAGES)
11             MORE_RECORDS = NO;
12         PRINT_AREA = 'ESDSLOAD: WRITE ESDS SEQUENTIALLY';
13         WRITE FILE(PRINTR) FROM(PRINT_LINE);
14         PRINT_AREA = '-----';
15         WRITE FILE(PRINTR) FROM(PRINT_LINE);
16         PRINT_AREA = ' ';
17         WRITE FILE(PRINTR) FROM(PRINT_LINE);
18         MORE_RECORDS = YES;
/*****
ESTABLISH PARAMETERS FOR VSAM DATASET AND CALL ROUTINE TO OPEN
*****/
19         VSFB_DDNAME = 'ESDSF01';
20         VSFB_ORGANIZATION = VSIO_ESDS;
21         VSFB_ACCESS = VSIO_SEQUENTIAL;
22         VSFB_MODE = VSIO_OUTPUT;
23         VSFB_RECORD_LENGTH = 80;
```

```
24      VSFB_KEY_POSITION = 0;          42
25      VSFB_KEY_LENGTH = 0;          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_ES;        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_ES:                      71
49      PROCEDURE;                     72
49      CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET 73
                *****/          74
48      VSIO_COMMAND = VSIO_WRITE;    75
49      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 76
```

```

                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_ES;
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
/*01770000*/ 147
        VV  VV  SSSSS  A      M      M      IIII  OOOOO  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   MMMMMM  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  OOOOO  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

```



```

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 BBBBBB 220
VV VV SSSSS AA AA MMMMMM II OO OO FFFF 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 ESDSLOD;

## 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
1	ESDSL0D	ENTRY,DECIMAL,FLOAT(SINGLE)
69	IMAGES	FILE,EXTERNAL,INPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F) 9,10,34,38
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	VSF0_ACCESS	IN VSIO_FILE_BLOCK,STATIC,UNALIGNED,INITIAL,STRING(10),CHARACTER 21

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
74	VSFB_DDNAME	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 19
74	VSFB_FILE_STATUS	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(1), CHARACTER
74	***** VSFB_KEY_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 25
74	***** VSFB_KEY_POSITION	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 24
74	VSFB_MODE	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(6), CHARACTER 22
74	VSFB_ORGANIZATION	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(4), CHARACTER 20
74	***** VSFB_RECORD_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 23
74	VSFB_RESERVED	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, STRING(161), CHARACTER
73	VSIO_CLOSE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 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
		20
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
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_ES	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 ESDSLOD 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\_ES IS 176 BYTES LONG.  
THE STORAGE AREA (IN STATIC) FOR THE PROCEDURE LABELLED VSIO\_ERROR IS 256 BYTES LONG.  
THE PROGRAM CSECT IS NAMED ESDSLOD AND IS 1682 BYTES LONG.  
THE STATIC CSECT IS NAMED ESDSLODA AND IS 5488 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\_ES

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 ESDSLOD

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	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.

ESDSLOAD: WRITE ESDS SEQUENTIALLY

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100 RECORDS WERE LOADED SUCCESSFULLY