

J E S 2 J O B L O G

18.22.46 JOB 159 IEF677I WARNING MESSAGE(S) FOR JOB VSTESTR4 ISSUED
18.22.46 JOB 159 \$HASP373 VSTESTR4 STARTED - INIT 1 - CLASS A - SYS HMVS
18.22.46 JOB 159 IEF403I VSTESTR4 - STARTED - TIME=18.22.46
18.22.47 JOB 159 CCI001C PL1L /IEMAA /00:00:00.16/ /00004/SYS /VSTESTR4
18.22.47 JOB 159 CCI001C LKED /IEWL /00:00:00.05/ /00000/SYS /VSTESTR4
18.22.47 JOB 159 CCI001C GO /PGM=*.DD/00:00:00.03/ /00000/SYS /VSTESTR4
18.22.47 JOB 159 IEF404I VSTESTR4 - ENDED - TIME=18.22.47
18.22.47 JOB 159 \$HASP395 VSTESTR4 ENDED

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

07 JUL 20 JOB EXECUTION DATE

23 CARDS READ

1,069 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.01 MINUTES EXECUTION TIME

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1 //VSTESTR4 JOB (SYS), 'VSAMIOP IVP RRDSLODR', CLASS=A, MSGCLASS=X, JOB 159
// REGION=4096K
***
*****
*** PL/1 MODULE: RRDSLODR VSAM DATASET: VSTESTRR.CLUSTER (RRDS)
***
*** RANDOMLY LOADS RECORDS LEAVING EMPTY "DUMMY" RECORD SLOTS
*****
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(RRDSLODR), 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.RRDSF01 DD DSN=PUB001.VSTESTRR.CLUSTER, DISP=OLD

```

STMT NO. MESSAGE

19 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED

IEF236I ALLOC. FOR VSTESTR4 PL1L PL1F
IEF237I 253 ALLOCATED TO STEPLIB
IEF237I 253 ALLOCATED TO SYS00382
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 VSTESTR4 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.JOB00159.SO0101 SYSOUT
IEF285I SYS20189.T182246.RA000.VSTESTR4.LOADSET PASSED *-----217
IEF285I VOL SER NOS= MVS380.
IEF285I SYS20189.T182246.RA000.VSTESTR4.SYSUT3 DELETED *-----269
IEF285I VOL SER NOS= WORK00.
IEF285I SYS20189.T182246.RA000.VSTESTR4.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 20189.1822
IEF374I STEP /PL1L / STOP 20189.1822 CPU 0MIN 00.16SEC SRB 0MIN 00.04SEC VIRT 4096K SYS 212K

**** JOBCARD READ 20189 18:22:46 *****
* PRC-CCI 370/148 VS2 R03.8 HMVS STEP STATISTICS *
* STEP NAME PL1L USER CORE 4096K TAPES USED/IO 000/000000000 START TIME 18:22:46 TCB TIME 00:00:00.16 *
* PGM NAME IEMAA SYSTEM CORE 212K DISKS USED/IO 004/000000516 STOP TIME 18:22:47 SRB TIME 00:00:00.04 *
* COND CODE 0004 PRIVATE AREA SZ 4096K ALLOC TIME 18:22:46 ELAPSED TIME PGM LOAD 18:22:46 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004 2791 00:00:00.23 0 0 0 0 0 0 0 0 *

* CPU \$ (0.05) + EXCP \$ (0.69) + MEMORY \$ (1.86) = TOTAL \$ (2.60) *

IEF236I ALLOC. FOR VSTESTR4 LKED PL1F
IEF237I 253 ALLOCATED TO SYSLIB
IEF237I 253 ALLOCATED TO
IEF237I 253 ALLOCATED TO SYS00384
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 VSTESTR4 LKED PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYSC.PL1LIB KEPT *-----129
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.T182246.RA000.VSTESTR4.GOSET PASSED *-----58
IEF285I VOL SER NOS= WORK00.
IEF285I SYS20189.T182246.RA000.VSTESTR4.SYSUT1 DELETED *-----0
IEF285I VOL SER NOS= MVS370.
IEF285I JES2.JOB00159.SO0102 SYSOUT

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IEF285I  SYS20189.T182246.RA000.VSTESTR4.LOADSET      DELETED      *-----218
IEF285I  VOL SER NOS= MVS380.
IEF373I  STEP /LKED      / START 20189.1822
IEF374I  STEP /LKED      / STOP  20189.1822 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  18:22:47  TCB TIME  00:00:00.05 *
* PGM NAME  IEWL      SYSTEM CORE      168K  DISKS USED/IO 004/000000405  STOP   TIME  18:22:47  SRB TIME  00:00:00.01 *
* COND CODE  0000     PRIVATE AREA SZ  4096K  ALLOC TIME  18:22:47  ELAPSED TIME  PGM LOAD  18:22:47 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*  004      2072    00:00:00.21          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.01) + EXCP $ ( 0.54) + MEMORY $ ( 0.03) = TOTAL $ ( 0.58)
*****
IEF236I  ALLOC. FOR VSTESTR4 GO PL1F
IEF237I  251  ALLOCATED TO PGM=*.DD
IEF237I  253  ALLOCATED TO STEPLIB
IEF237I  253  ALLOCATED TO
IEF237I  253  ALLOCATED TO SYS00386
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  JES2 ALLOCATED TO PRINTR
IEF237I  190  ALLOCATED TO IMAGES
IEF237I  190  ALLOCATED TO SYS00388
IEF237I  JES2 ALLOCATED TO SYSUDUMP
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  190  ALLOCATED TO RRDSF01
IEF142I  VSTESTR4 GO PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS20189.T182246.RA000.VSTESTR4.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.JOB00159.SO0103      SYSOUT
IEF285I  JES2.JOB00159.SO0104      SYSOUT
IEF285I  PUB001.VSAMTEST.DATA      KEPT          *-----11
IEF285I  VOL SER NOS= PUB001.
IEF285I  UCPUB001      KEPT          *-----0
IEF285I  VOL SER NOS= PUB001.
IEF285I  JES2.JOB00159.SO0105      SYSOUT
IEF285I  JES2.JOB00159.SO0106      SYSOUT
IEF285I  PUB001.VSTESTRR.CLUSTER    KEPT          *-----204
IEF285I  VOL SER NOS= PUB001.
IEF373I  STEP /GO      / START 20189.1822
IEF374I  STEP /GO      / STOP  20189.1822 CPU      OMIN 00.03SEC SRB      OMIN 00.01SEC 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  18:22:47  TCB TIME  00:00:00.03 *
* PGM NAME  PGM=*.DD  SYSTEM CORE      180K  DISKS USED/IO 003/000000215  STOP   TIME  18:22:47  SRB TIME  00:00:00.01 *
* COND CODE  0000     PRIVATE AREA SZ  4096K  ALLOC TIME  18:22:47  ELAPSED TIME  PGM LOAD  18:22:47 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*  004      1110    00:00:00.04          2          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.01) + EXCP $ ( 0.29) + MEMORY $ ( 0.00) = TOTAL $ ( 0.30)
*****
IEF237I  251  ALLOCATED TO SYS00001
IEF285I  SYS20189.T182247.RA000.VSTESTR4.R0000001    KEPT          *-----0
IEF285I  VOL SER NOS= WORK00.
IEF285I  SYS20189.T182246.RA000.VSTESTR4.GOSET      DELETED

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IEF285I VOL SER NOS= WORK00.
IEF375I JOB /VSTESTR4/ START 20189.1822
IEF376I JOB /VSTESTR4/ STOP 20189.1822 CPU OMIN 00.24SEC SRB OMIN 00.06SEC

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  /*****17090000
2  17100000
3  RRDSLODR - TESTS THE VSAMIO ROUTINE BY LOADING AN RRDS CLUSTER 17110000
4  DIRECTLY WITH RECORDS FROM A SEQUENTIAL DATASET. THE 17120000
5  RELATIVE RECORD NUMBER IS TAKEN FROM THE SEQUENCE PART 17130000
6  OF THE INPUT RECORD AND THERE ARE GAPS LEFT IN THE 17140000
7  RESULTING CLUSTER. 17150000
8  17160000
9  *****/17170000
10 RRDSLOR: 17180000
11 PROCEDURE OPTIONS(MAIN); 17190000
12 17200000
13 ON ERROR 17210000
14 BEGIN; 17220000
15 ON ERROR SYSTEM; 17230000
16 PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 17240000
17 PUT SKIP DATA; 17250000
18 PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 17260000
19 END; 17270000
20 17280000
21 OPEN 17290000
22 FILE(IMAGES), 17300000
23 FILE(PRINTR) LINESIZE(121); 17310000
24 17320000
25 ON ENDFILE(IMAGES) 17330000
26 MORE_RECORDS = NO; 17340000
27 17350000
28 PRINT_AREA = 'RRDSLODR: WRITE RRDS DIRECT (VACANT SLOTS)'; 17360000
29 WRITE FILE(PRINTR) FROM(PRINT_LINE); 17370000
30 PRINT_AREA = '-----'; 17380000
31 WRITE FILE(PRINTR) FROM(PRINT_LINE); 17390000
32 PRINT_AREA = ' '; 17400000
33 WRITE FILE(PRINTR) FROM(PRINT_LINE); 17410000
34 17420000
35 MORE_RECORDS = YES; 17430000
36 17440000
37 /*****17450000
38 ESTABLISH PARAMETERS FOR VSAM DATASET AND CALL ROUTINE TO OPEN 17460000
39 *****/17470000
40 VSFB_DDNAME = 'RRDSF01'; 17480000
41 VSFB_ORGANIZATION = VSIO_RRDS; 17490000
42 VSFB_ACCESS = VSIO_DIRECT; 17500000
43 VSFB_MODE = VSIO_OUTPUT; 17510000
44 VSFB_RECORD_LENGTH = 80; 17520000
```

MACRO SOURCE2 LISTING

```
45      VSFB_KEY_POSITION = 0;                17530000
46      VSFB_KEY_LENGTH = 0;                17540000
47      VSIO_COMMAND = VSIO_OPEN;          17550000
48      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 17560000
49                  VSIO_FILE_BLOCK,       17570000
50                  RECORD_IMAGE);         17580000
51      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 17590000
52          DO;                             17600000
53              CALL VSIO_ERROR;            17610000
54              RETURN;                    17620000
55          END;                             17630000
56                                          17640000
57      DO WHILE(MORE_RECORDS);             17650000
58          READ FILE(IMAGES) INTO(RECORD_IMAGE); 17660000
59          IF (MORE_RECORDS) THEN         17670000
60              DO;                         17680000
61                  VSFB_KEY_LENGTH = RECORD_SEQUENCE; 17690000
62                  CALL WRITE_RR;         17700000
63              END;                       17710000
64      END;                             17720000
65                                          17730000
66      CLOSE FILE(IMAGES);                17740000
67                                          17750000
68      /*****17760000
69      CALL ROUTINE TO CLOSE VSAM DATASET 17770000
70      *****/17780000
71      VSIO_COMMAND = VSIO_CLOSE;         17790000
72      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 17800000
73                  VSIO_FILE_BLOCK,       17810000
74                  RECORD_IMAGE);         17820000
75      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 17830000
76          CALL VSIO_ERROR;                17840000
77                                          17850000
78      COUNTER_EDIT = RECORD_COUNTER;     17860000
79      PRINT_AREA = COUNTER_EDIT ||      17870000
80                  ' RECORDS WERE LOADED SUCCESSFULLY'; 17880000
81      WRITE FILE(PRINTR) FROM(PRINT_LINE); 17890000
82                                          17900000
83      RETURN;                             17910000
84                                          17920000
85      WRITE_RR:                            17930000
86      PROCEDURE;                          17940000
87                                          17950000
88      /*****17960000
89      CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET 17970000
```


MACRO SOURCE2 LISTING

```
90      *****/17980000
91      VSIO_COMMAND = VSIO_WRITE;          17990000
92      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 18000000
93                  VSIO_FILE_BLOCK,       18010000
94                  RECORD_IMAGE);         18020000
95      IF (VSIO_RETURN_CODE = VSIO_RC_SUCCESS) THEN 18030000
96          CALL VSIO_ERROR;               18040000
97      ELSE                                18050000
98          RECORD_COUNTER = RECORD_COUNTER + 1; 18060000
99                                          18070000
100     RETURN;                             18080000
101                                          18090000
102     END WRITE_RR;                        18100000
103                                          18110000
104     VSIO_ERROR:                          18120000
105     PROCEDURE;                           18130000
106     PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' || 18140000
107                 VSIO_COMMAND;           18150000
108     WRITE FILE(PRINTR) FROM(PRINT_LINE); 18160000
109     PRINT_AREA = 'VSIO_RETURN_CODE = ' || 18170000
110                 VSIO_RETURN_CODE;      18180000
111     WRITE FILE(PRINTR) FROM(PRINT_LINE); 18190000
112     PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' || 18200000
113                 VSIO_VSAM_RETURN_CODE; 18210000
114     WRITE FILE(PRINTR) FROM(PRINT_LINE); 18220000
115     PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' || 18230000
116                 VSIO_VSAM_FUNCTION_CODE; 18240000
117     WRITE FILE(PRINTR) FROM(PRINT_LINE); 18250000
118     PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' || 18260000
119                 VSIO_VSAM_FEEDBACK_CODE; 18270000
120     WRITE FILE(PRINTR) FROM(PRINT_LINE); 18280000
121     PRINT_AREA = ' ';                    18290000
122                                          18300000
123     RETURN;                              18310000
124                                          18320000
125     END VSIO_ERROR;                      18330000
126                                          18340000
127     DECLARE                              18350000
128     IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL 18360000
129     ENV(F),                               18370000
130     PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL 18380000
131     ENV(F CTLASA);                       18390000
132                                          18400000
133     DECLARE                              18410000
134     COUNTER_EDIT                          18420000
           PICTURE 'ZZ,ZZZ,ZZ9V',
```


MACRO SOURCE2 LISTING

```
176          1 VSIO_PARAMETER_VALUES  STATIC,          31310000
177          2 VSIO_OPEN              CHAR(8)  INIT('OPEN  '),  31320000
178          2 VSIO_CLOSE             CHAR(8)  INIT('CLOSE  '),  31330000
179          2 VSIO_READ               CHAR(8)  INIT('READ   '),  31340000
180          2 VSIO_WRITE              CHAR(8)  INIT('WRITE  '),  31350000
181          2 VSIO_REWRITE            CHAR(8)  INIT('REWRITE'),  31360000
182          2 VSIO_DELETE             CHAR(8)  INIT('DELETE '),  31370000
183          2 VSIO_START_EQUAL        CHAR(8)  INIT('STARTEQ'),  31380000
184          2 VSIO_START_NOTLESS     CHAR(8)  INIT('STARTGE '),  31390000
185          2 VSIO_KSDS               CHAR(4)  INIT('KSDS'),   31400000
186          2 VSIO_ESDS               CHAR(4)  INIT('ESDS'),   31410000
187          2 VSIO_RRDS               CHAR(4)  INIT('RRDS'),   31420000
188          2 VSIO_SEQUENTIAL         CHAR(10) INIT('SEQUENTIAL'), 31430000
189          2 VSIO_DIRECT             CHAR(10) INIT('DIRECT  '),  31440000
190          2 VSIO_DYNAMIC            CHAR(10) INIT('DYNAMIC  '),  31450000
191          2 VSIO_INPUT              CHAR(6)  INIT('INPUT  '),  31460000
192          2 VSIO_OUTPUT             CHAR(6)  INIT('OUTPUT'),   31470000
193          2 VSIO_INPUT_OUTPUT       CHAR(6)  INIT('UPDATE'),   31480000
194          2 (VSIO_RC_SUCCESS        INIT(0),          31490000
195          VSIO_RC_LOGIC_ERROR       INIT(8),          31500000
196          VSIO_RC_END_OF_FILE       INIT(9999),       31510000
197          VSIO_RC_UNKNOWN_COMMAND   INIT(20),          31520000
198          VSIO_RC_DATASET_ALREADY_OPEN INIT(21),          31530000
199          VSIO_RC_DATASET_NOT_OPEN  INIT(22),          31540000
200          VSIO_RC_ORGANIZATION_UNKNOWN INIT(23),          31550000
201          VSIO_RC_ACCESS_UNKNOWN    INIT(24),          31560000
202          VSIO_RC_ORG_ACCESS_MISMATCH INIT(25),          31570000
203          VSIO_RC_MODE_UNKNOWN      INIT(26),          31580000
204          VSIO_RC_MODE_UNSUPPORTED  INIT(27),          31590000
205          VSIO_RC_DDNAME_BLANK      INIT(28))         31600000
206          FIXED BINARY(15,0),      31610000
207          2 (VSIO_FB_DUPLICATE_RECORD INIT(8),          31620000
208          VSIO_FB_KEY_SEQUENCE      INIT(12),          31630000
209          VSIO_FB_RECORD_NOT_FOUND  INIT(16),          31640000
210          VSIO_FB_NO_MORE_SPACE    INIT(28),          31650000
211          VSIO_FB_READ_WITHOUT_START INIT(88))         31660000
212          FIXED BINARY(15,0),      31670000
213  /*****31680000
214  THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE 31690000
215  THE ROUTINE. 31700000
216  *****/31710000
217  31720000
218          1 VSIO_PARAMETER_BLOCK  STATIC,          31730000
219          2 VSIO_COMMAND           CHAR(8)  INIT(' '),        31740000
220          2 (VSIO_RETURN_CODE,      31750000
```

MACRO SOURCE2 LISTING

```
221          VSIO_VSAM_RC,                31760000
222          VSIO_VSAM_FUNCTION,          31770000
223          VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0); 31780000
224                                                    31790000
225 /*****31800000
226          END OF VSAMIO COPY BOOK      31810000
227 *****/31820000
```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIOFB

```
228 /*****00000100
229                                                    00000200
230  VV  VV  SSSSS  A  M  M  IIII  OOOOO  FFFFFFFF  BBBBBB  00000300
231  VV  VV  SS  SS  AAA  MM  MM  II  OO  OO  FF  BB  BB  00000400
232  VV  VV  SS  AA  AA  MMM  MMM  II  OO  OO  FF  BB  BB  00000500
233  VV  VV  SSSSS  AA  AA  MMMMMMMM  II  OO  OO  FFFFFF  BBBBBB  00000600
234  VV  VV  SS  AA  AA  MM  M  MM  II  OO  OO  FF  BB  BB  00000700
235  VV  VV  SS  SS  AAAAAA  MM  MM  II  OO  OO  FF  BB  BB  00000800
236  VVV  SS  SS  AA  AA  MM  MM  II  OO  OO  FF  BB  BB  00000900
237  V  SSSSS  AA  AA  MM  MM  IIII  OOOOO  FF  BBBBBB  00001000
238                                                    00001100
239 *****/00001200
240  THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 00001300
241  ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE 00001400
242  VSAM DATASET. 00001500
243 00001600
244  WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE 00001700
245  LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD 00001800
246  DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE 00001900
247  ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE 00002000
248  DATASET HAS BEEN CLOSED. 00002100
249 *****/00002200
250 00002300
251  DECLARE 00002400
252  1 VSIO_FILE_BLOCK  STATIC, 00002500
253  2 VSFB_DDNAME  CHAR(8)  INIT(' '), 00002600
254  2 VSFB_ORGANIZATION  CHAR(4)  INIT(' '), 00002700
255  2 VSFB_ACCESS  CHAR(10)  INIT(' '), 00002800
256  2 VSFB_MODE  CHAR(6)  INIT(' '), 00002900
257  2 (VSFB_RECORD_LENGTH, 00003000
258  VSFB_KEY_POSITION, 00003100
259  VSFB_KEY_LENGTH)  FIXED BINARY(15,0) INIT(0), 00003200
260  2 VSFB_FILE_STATUS  CHAR(1)  INIT('C'), 00003300
261  2 VSFB_RESERVED  CHAR(161); 00003400
```

MACRO SOURCE2 LISTING

```
262                                     00003500
263  /*****00003600
264                END OF VSAMIOFB COPY BOOK      00003700
265  *****/00003800
```

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

SOURCE LISTING.

```

/*****
RRDSLDR - TESTS THE VSAMIO ROUTINE BY LOADING AN RRDS CLUSTER
          DIRECTLY WITH RECORDS FROM A SEQUENTIAL DATASET.  THE
          RELATIVE RECORD NUMBER IS TAKEN FROM THE SEQUENCE PART
          OF THE INPUT RECORD AND THERE ARE GAPS LEFT IN THE
          RESULTING CLUSTER.
*****/
1  RRDSLOR:
   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 = 'RRDSLDR: WRITE RRDS DIRECT (VACANT SLOTS)';
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 = 'RRDSF01';
20     VSFB_ORGANIZATION = VSIO_RRDS;
```

```
21      VSFB_ACCESS = VSIO_DIRECT;          42
22      VSFB_MODE = VSIO_OUTPUT;           43
23      VSFB_RECORD_LENGTH = 80;           44
24      VSFB_KEY_POSITION = 0;             45
25      VSFB_KEY_LENGTH = 0;               46
26      VSIO_COMMAND = VSIO_OPEN;          47
27      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 48
                VSIO_FILE_BLOCK,          49
                RECORD_IMAGE);             50
28      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 51
29          DO;                             52
30              CALL VSIO_ERROR;             53
31              RETURN;                     54
32          END;                             55
33      DO WHILE(MORE_RECORDS);             56
34          READ FILE(IMAGES) INTO(RECORD_IMAGE); 57
35          IF (MORE_RECORDS) THEN          58
36              DO;                         59
37                  VSFB_KEY_LENGTH = RECORD_SEQUENCE; 60
38                  CALL WRITE_RR;          61
39              END;                         62
40      END;                                 63
41      CLOSE FILE(IMAGES);                64
42                                          65
43      /*****                               66
44      CALL ROUTINE TO CLOSE VSAM DATASET  67
45      *****/                               68
46      VSIO_COMMAND = VSIO_CLOSE;          68
47      CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 68
                VSIO_FILE_BLOCK,          69
                RECORD_IMAGE);             70
48      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 71
49          CALL VSIO_ERROR;                 72
50                                          73
51      COUNTER_EDIT = RECORD_COUNTER;      74
52      PRINT_AREA = COUNTER_EDIT ||        75
53          ' RECORDS WERE LOADED SUCCESSFULLY'; 76
54      WRITE FILE(PRINTR) FROM(PRINT_LINE); 77
55                                          78
56      RETURN;                              79
57                                          80
58      WRITE_RR:                             81
59      PROCEDURE;                            82
60                                          83
61                                          84
62                                          85
63                                          86
64                                          87
```

```

/*****
CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET
*****/
88
88
88
90
51      VSIO_COMMAND = VSIO_WRITE;          91
52      CALL VSAMIOP (VSIO_PARAMETER_BLOCK,  92
                    VSIO_FILE_BLOCK,       93
                    RECORD_IMAGE);        94
53      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN 95
54          CALL VSIO_ERROR;                96
55      ELSE                                97
55          RECORD_COUNTER = RECORD_COUNTER + 1; 98
99
56      RETURN;                             100
101
57      END WRITE_RR;                       102
103
58      VSIO_ERROR:                         104
      PROCEDURE;                           105
59          PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' || 106
                    VSIO_COMMAND;         107
60          WRITE FILE(PRINTR) FROM(PRINT_LINE); 108
61          PRINT_AREA = 'VSIO_RETURN_CODE = ' || 109
                    VSIO_RETURN_CODE;     110
62          WRITE FILE(PRINTR) FROM(PRINT_LINE); 111
63          PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' || 112
                    VSIO_VSAM_RETURN_CODE; 113
64          WRITE FILE(PRINTR) FROM(PRINT_LINE); 114
65          PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' || 115
                    VSIO_VSAM_FUNCTION_CODE; 116
66          WRITE FILE(PRINTR) FROM(PRINT_LINE); 117
67          PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' || 118
                    VSIO_VSAM_FEEDBACK_CODE; 119
68          WRITE FILE(PRINTR) FROM(PRINT_LINE); 120
69          PRINT_AREA = ' ';              121
122
70      RETURN;                             123
124
71      END VSIO_ERROR;                     125
126
72      DECLARE                             127
          IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL 128
          ENV(F),                             129
          PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL 130
          ENV(F CTLASA);                      131
132
73      DECLARE                             133
```



```

COUNTER_EDIT          PICTURE 'ZZ,ZZZ,ZZ9V',          134
MORE_RECORDS          BIT(1),                          135
NO                     BIT(1)  INIT('0'B),            136
RECORD_COUNTER        FIXED BINARY(15,0) INIT(0),      137
YES                    BIT(1)  INIT('1'B);            138

```

```

74      DECLARE
      1 RECORD_IMAGE,          140
      2 RECORD_IDENT          CHAR(7),                  141
      2 RECORD_SEQUENCE       CHAR(3),                  142
      2 RECORD_FIELDS         CHAR(70);                143

```

```

75      DECLARE
      1 PRINT_LINE,          146
      2 CARRIAGE_CONTROL     CHAR(1)  INIT(' '),        147
      2 PRINT_AREA           CHAR(120);                 148

```

/*155

```

VV  VV  SSSSS  A  M  M  IIII  OOOOO  155
VV  VV  SS  SS  AAA  MM  MM  II  OO  OO  155
VV  VV  SS  AA  AA  MMM  MMM  II  OO  OO  155
VV  VV  SSSSS  AA  AA  MMMMMM  II  OO  OO  155
VV  VV  SS  SS  AA  AA  MM  M  MM  II  OO  OO  155
VV  VV  SS  SS  AAAAAA  MM  MM  II  OO  OO  155
VVV  SS  SS  AA  AA  MM  MM  II  OO  OO  155
V  SSSSS  AA  AA  MM  MM  IIII  OOOOO  155

```

 THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS
 ROUTINE.

THE VSIO_PARAMETER_VALUES SUPPLY THE VALUES USED TO MOVE INTO
 PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET AND
 TO PROVIDE COMMANDS TO DRIVE THE ROUTINE.

*****/

```

76      DECLARE
      1 VSIO_PARAMETER_VALUES  STATIC,                173
      2 VSIO_OPEN              CHAR(8)  INIT('OPEN  '),  174
      2 VSIO_CLOSE             CHAR(8)  INIT('CLOSE  '),  175
      2 VSIO_READ              CHAR(8)  INIT('READ  '),  176
      2 VSIO_WRITE             CHAR(8)  INIT('WRITE  '),  177
      2 VSIO_REWRITE           CHAR(8)  INIT('REWRITE '),  178
      2 VSIO_DELETE            CHAR(8)  INIT('DELETE '),  179
      2 VSIO_START_EQUAL       CHAR(8)  INIT('STARTEQ '),  180
      2 VSIO_START_NOTLESS    CHAR(8)  INIT('STARTGE '),  181

```

```

2 VSIO_KSDS          CHAR(4)  INIT('KSDS'),      185
2 VSIO_ESDS          CHAR(4)  INIT('ESDS'),      186
2 VSIO_RRDS          CHAR(4)  INIT('RRDS'),      187
2 VSIO_SEQUENTIAL    CHAR(10)  INIT('SEQUENTIAL'), 188
2 VSIO_DIRECT        CHAR(10)  INIT('DIRECT  '),  189
2 VSIO_DYNAMIC       CHAR(10)  INIT('DYNAMIC  '), 190
2 VSIO_INPUT         CHAR(6)   INIT('INPUT  '),   191
2 VSIO_OUTPUT        CHAR(6)   INIT('OUTPUT'),    192
2 VSIO_INPUT_OUTPUT  CHAR(6)   INIT('UPDATE'),    193
2 (VSIO_RC_SUCCESS   INIT(0),      194
  VSIO_RC_LOGIC_ERROR INIT(8),      195
  VSIO_RC_END_OF_FILE INIT(9999),    196
  VSIO_RC_UNKNOWN_COMMAND INIT(20),  197
  VSIO_RC_DATASET_ALREADY_OPEN INIT(21), 198
  VSIO_RC_DATASET_NOT_OPEN INIT(22),  199
  VSIO_RC_ORGANIZATION_UNKNOWN INIT(23), 200
  VSIO_RC_ACCESS_UNKNOWN INIT(24),    201
  VSIO_RC_ORG_ACCESS_MISMATCH INIT(25), 202
  VSIO_RC_MODE_UNKNOWN INIT(26),      203
  VSIO_RC_MODE_UNSUPPORTED INIT(27),   204
  VSIO_RC_DDNAME_BLANK INIT(28))      205
                          FIXED BINARY(15,0), 206
2 (VSIO_FB_DUPLICATE_RECORD INIT(8),    207
  VSIO_FB_KEY_SEQUENCE INIT(12),        208
  VSIO_FB_RECORD_NOT_FOUND INIT(16),    209
  VSIO_FB_NO_MORE_SPACE INIT(28),       210
  VSIO_FB_READ_WITHOUT_START INIT(88))  211
                          FIXED BINARY(15,0), 212

```

```

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

```

```

1 VSIO_PARAMETER_BLOCK  STATIC,      218
  2 VSIO_COMMAND        CHAR(8)  INIT(' '),  219
  2 (VSIO_RETURN_CODE,  220
    VSIO_VSAM_RC,      221
    VSIO_VSAM_FUNCTION, 222
    VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0); 223

```

```

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

```

```

/*****

```

```

VV  VV  SSSSS  A  M  M  IIII  OOOO  FFFFFFFF  BBBBBB  228
VV  VV  SS  SS  AAA  MM  MM  II  OO  OO  FF  BB  BB  228

```

```

VV  VV  SS      AA AA  MMM MMM  II  OO  OO  FF      BB  BB  228
VV  VV  SSSSS  AA  AA  MMMMMMM  II  OO  OO  FFFFF  BBBB  228
VV  VV      SS  AA  AA  MM M MM  II  OO  OO  FF      BB  BB  228
  VV VV  SS  SS  AAAAAA  MM  MM  II  OO  OO  FF      BB  BB  228
   VVV  SS  SS  AA  AA  MM  MM  II  OO  OO  FF      BB  BB  228
    V    SSSSS  AA  AA  MM  MM  IIII  OOOO  FF      BBBB  228

```

***** 228

```

THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 228
ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS FOR A SINGLE 228
VSAM DATASET. 228

```

```

WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE VARIABLE 228
LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE RELATIVE RECORD 228
DATASETS), THESE DATA NAMES MUST BE POPULATED PRIOR TO CALLING THE 228
ROUTINE TO OPEN THE DATASET AND MUST NOT THEN BE CHANGED UNTIL THE 228
DATASET HAS BEEN CLOSED. 228

```

*****/ 228

77

```

DECLARE 251
  1 VSIO_FILE_BLOCK          STATIC, 252
    2 VSFB_DDNAME            CHAR(8)  INIT(' '), 253
    2 VSFB_ORGANIZATION      CHAR(4)  INIT(' '), 254
    2 VSFB_ACCESS            CHAR(10) INIT(' '), 255
    2 VSFB_MODE              CHAR(6)  INIT(' '), 256
    2 (VSFB_RECORD_LENGTH, 257
      VSFB_KEY_POSITION, 258
      VSFB_KEY_LENGTH)      FIXED BINARY(15,0) INIT(0), 259
    2 VSFB_FILE_STATUS       CHAR(1)  INIT('C'), 260
    2 VSFB_RESERVED         CHAR(161); 261

```

/* 263

END OF VSAMIOFB COPY BOOK 263

*****/ 263

78

END RRDSLOR; 154

ATTRIBUTE AND CROSS-REFERENCE TABLE

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
75	CARRIAGE_CONTROL	IN PRINT_LINE,AUTOMATIC,UNALIGNED,INITIAL,STRING(1),CHARACTER
73	COUNTER_EDIT	AUTOMATIC,UNALIGNED,DECIMAL,PICTURE(ZZ,ZZZ,ZZ9V) 46,47
72	IMAGES	FILE,EXTERNAL,INPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F) 9,10,34,41
73	MORE_RECORDS	AUTOMATIC,UNALIGNED,STRING(1),BIT 11,18,33,35
73	NO	AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT 11
75	PRINT_AREA	IN PRINT_LINE,AUTOMATIC,UNALIGNED,STRING(120),CHARACTER 12,14,16,47,59,61,63,65,67,69
75	PRINT_LINE	AUTOMATIC,STRUCTURE 13,15,17,48,60,62,64,66,68
72	PRINTR	FILE,EXTERNAL,OUTPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F CTLASA) 9,13,15,17,48,60,62,64,66,68
73	***** RECORD_COUNTER	AUTOMATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0) 46,55,55
74	RECORD_FIELDS	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(70),CHARACTER
74	RECORD_IDENT	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(7),CHARACTER
74	RECORD_IMAGE	AUTOMATIC,STRUCTURE 27,34,43,52
74	RECORD_SEQUENCE	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(3),CHARACTER 37
1	RRDSLOR	ENTRY,DECIMAL,FLOAT(SINGLE)
	SYSPRINT	FILE,EXTERNAL 5,6,7

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
	VSAMIOP	EXTERNAL, ENTRY, DECIMAL, FLOAT(SINGLE) 27, 43, 52
77	VSFB_ACCESS	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER 21
77	VSFB_DDNAME	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 19
77	VSFB_FILE_STATUS	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(1), CHARACTER
77	***** VSFB_KEY_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 25, 37
77	***** VSFB_KEY_POSITION	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 24
77	VSFB_MODE	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(6), CHARACTER 22
77	VSFB_ORGANIZATION	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(4), CHARACTER 20
77	***** VSFB_RECORD_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 23
77	VSFB_RESERVED	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, STRING(161), CHARACTER
76	VSIO_CLOSE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 42
76	VSIO_COMMAND	IN VSIO_PARAMETER_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 26, 42, 51, 59
76	VSIO_DELETE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
76	VSIO_DIRECT	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER 21
76	VSIO_DYNAMIC	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
58	VSIO_ERROR	ENTRY,DECIMAL,FLOAT(SINGLE) 30,45,54
76	VSIO_ESDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
76	***** VSIO_FB_DUPLICATE_RECORD	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
76	***** VSIO_FB_KEY_SEQUENCE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
76	***** VSIO_FB_NO_MORE_SPACE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
76	***** VSIO_FB_READ_WITHOUT_START	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
76	***** VSIO_FB_RECORD_NOT_FOUND	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
77	VSIO_FILE_BLOCK	STATIC,STRUCTURE 27,43,52
76	VSIO_INPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
76	VSIO_INPUT_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
76	VSIO_KSDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
76	VSIO_OPEN	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER 26
76	VSIO_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER 22
76	VSIO_PARAMETER_BLOCK	STATIC,STRUCTURE 27,43,52

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
76	VSIO_PARAMETER_VALUES	STATIC, STRUCTURE
76	***** VSIO_RC_ACCESS_UNKNOWN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_DATASET_ALREADY_OPEN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_DATASET_NOT_OPEN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_DDNAME_BLANK	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_END_OF_FILE	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_LOGIC_ERROR	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_MODE_UNKNOWN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_MODE_UNSUPPORTED	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_ORG_ACCESS_MISMATCH	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_ORGANIZATION_UNKNOWN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	***** VSIO_RC_SUCCESS	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0) 28,44,53
76	***** VSIO_RC_UNKNOWN_COMMAND	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
76	VSIO_READ	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
76	***** VSIO_RETURN_CODE	IN VSIO_PARAMETER_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0) 28,44,53,61

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
76	VSIO_REWRITE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
76	VSIO_RRDS	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(4), CHARACTER 20
76	VSIO_SEQUENTIAL	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER
76	VSIO_START_EQUAL	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
76	VSIO_START_NOTLESS	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
76	***** VSIO_VSAM_FEEDBACK	IN VSIO_PARAMETER_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
	VSIO_VSAM_FEEDBACK_CODE	AUTOMATIC, ALIGNED, DECIMAL, FLOAT(SINGLE) 67
76	***** VSIO_VSAM_FUNCTION	IN VSIO_PARAMETER_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
	VSIO_VSAM_FUNCTION_CODE	AUTOMATIC, ALIGNED, DECIMAL, FLOAT(SINGLE) 65
76	***** VSIO_VSAM_RC	IN VSIO_PARAMETER_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
	VSIO_VSAM_RETURN_CODE	AUTOMATIC, ALIGNED, DECIMAL, FLOAT(SINGLE) 63
76	VSIO_WRITE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 51
50	WRITE_RR	ENTRY, DECIMAL, FLOAT(SINGLE) 38
73	YES	AUTOMATIC, UNALIGNED, INITIAL, STRING(1), BIT 18

AGGREGATE LENGTH TABLE

STATEMENT NO.	IDENTIFIER	LENGTH IN BYTES
75	PRINT_LINE	121
74	RECORD_IMAGE	80
77	VSIO_FILE_BLOCK	196
76	VSIO_PARAMETER_BLOCK	16
76	VSIO_PARAMETER_VALUES	158

STORAGE REQUIREMENTS.

THE STORAGE AREA FOR THE PROCEDURE LABELLED RRDSLOR IS 536 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_RR IS 176 BYTES LONG.
THE STORAGE AREA (IN STATIC) FOR THE PROCEDURE LABELLED VSIO_ERROR IS 256 BYTES LONG.
THE PROGRAM CSECT IS NAMED RRDSLOR AND IS 1734 BYTES LONG.
THE STATIC CSECT IS NAMED RRDSLORA AND IS 5632 BYTES LONG.

STATISTICS MACRO RECORDS = 265, SOURCE RECORDS = 267, PROG TEXT STMNTS = 78, OBJECT BYTES = 1734

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_RR

OFFSET (HEX)	0000	0038	003E	005E	006A	0078	0088	008E
STATEMENT NO	50	51	52	53	54	55	56	57

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	58	59	60	61	62	63	64	65	66	67	68	69	70	71

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN PROCEDURE RRDSLOR

OFFSET (HEX)	0000	00F0	00FE	0108	0116	0122	013A	0146	015E	016A	0182	0188	018E	0194	019A	01A0	01A6	01AC	01B2	01B8	01D4
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)	01E0	01E0	01EA	01F0	01F0	01F8	0210	0218	0218	0232	023C	023C	0240	024A	0250	026C	0278	0282	029C	02B8	02D0
STATEMENT NO	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

OFFSET (HEX)	02D6
STATEMENT NO	78

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 37, 63, 65, 67.

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.

RRDSLODR: WRITE RRDS DIRECT (VACANT SLOTS)

100 RECORDS WERE LOADED SUCCESSFULLY