

J E S 2 J O B L O G

```
18.17.02 JOB 156 IEF677I WARNING MESSAGE(S) FOR JOB VSTESTR2 ISSUED
18.17.02 JOB 156 $HASP373 VSTESTR2 STARTED - INIT 1 - CLASS A - SYS HMVS
18.17.02 JOB 156 IEF403I VSTESTR2 - STARTED - TIME=18.17.02
18.17.02 JOB 156 CCI001C PL1L      /IEMAA    /00:00:00.16/      /00004/SYS    /VSTESTR2
18.17.03 JOB 156 CCI001C LKED      /IEWL    /00:00:00.04/      /00000/SYS    /VSTESTR2
18.17.03 JOB 156 CCI001C GO        /PGM=*.DD/00:00:00.02/  /00000/SYS    /VSTESTR2
18.17.03 JOB 156 IEF404I VSTESTR2 - ENDED - TIME=18.17.03
18.17.03 JOB 156 $HASP395 VSTESTR2 ENDED
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----- JES2 JOB STATISTICS -----

07 JUL 20 JOB EXECUTION DATE

23 CARDS READ

1,076 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

```

1 //VSTESTR2 JOB (SYS), 'VSAMIOP IVP RRDSLODS', CLASS=A, MSGCLASS=X, JOB 156
// REGION=4096K
***
*****
*** PL/1 MODULE: RRDSLODS VSAM DATASET: VSTESTRR.CLUSTER (RRDS)
***
*** SEQUENTIALLY LOADS RECORDS GENERATING SERIAL RELATIVE RECORD #
*****
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 DSNNAME=&&LOADSET,DISP=(MOD,PASS),UNIT=SYSSQ, *00000400
XX SPACE=(80,(250,100)) 00000500
7 XXSYSUT3 DD DSNNAME=&&SYSUT3,UNIT=SYSDA,SPACE=(80,(250,250)), *00000600
XX DCB=BLKSIZE=80 00000700
8 XXSYSUT1 DD DSNNAME=&&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(RRDSLODS),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 DSNNAME=SYSC.PL1LIB,DISP=SHR 00001201
13 // DD DSN=SYSC.LINKLIB,DISP=SHR
14 XXSYSLMOD DD DSNNAME=&&GOSET(GO),DISP=(MOD,PASS), *00001300
XX UNIT=SYSDA,SPACE=(1024,(50,20,1),RLSE) 00001400
15 XXSYSUT1 DD DSNNAME=&&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 DSNNAME=&&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.SYSDUMP 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 VSTESTR2 PL1L PL1F
IEF237I 253 ALLOCATED TO STEPLIB
IEF237I 253 ALLOCATED TO SYS00366
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 VSTESTR2 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.JOB00156.SO0101 SYSOUT
IEF285I SYS20189.T181702.RA000.VSTESTR2.LOADSET PASSED \*-----214
IEF285I VOL SER NOS= MVS380.
IEF285I SYS20189.T181702.RA000.VSTESTR2.SYSUT3 DELETED \*-----271
IEF285I VOL SER NOS= WORK00.
IEF285I SYS20189.T181702.RA000.VSTESTR2.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 20189.1817

IEF374I STEP /PL1L / STOP 20189.1817 CPU 0MIN 00.16SEC SRB 0MIN 00.04SEC VIRT 4096K SYS 212K

\*\*\*\* JOBCARD READ 20189 18:17:02 \*\*\*\*

\* PRC-CCI 370/148 VS2 R03.8 HMVS STEP STATISTICS \*
\* STEP NAME PL1L USER CORE 4096K TAPES USED/IO 000/000000000 START TIME 18:17:02 TCB TIME 00:00:00.16 \*
\* PGM NAME IEMAA SYSTEM CORE 212K DISKS USED/IO 004/000000515 STOP TIME 18:17:02 SRB TIME 00:00:00.04 \*
\* COND CODE 0004 PRIVATE AREA SZ 4096K ALLOC TIME 18:17:02 ELAPSED TIME PGM LOAD 18:17:02 \*
\*\* PGNO \* NR SRV UNITS \* ACTIVE TIME \*\* PAGES IN \*\*\* PAGES OUT \*\* # SWAPS \* PGS SWAP IN \* PGS SWAP OUT \* VIO PGS IN \* VIO PGS OUT \*\*
\* 004 2794 00:00:00.24 0 0 0 0 0 0 0 0 \*
\* CPU \$ ( 0.05 ) + EXCP \$ ( 0.69 ) + MEMORY \$ ( 1.86 ) = TOTAL \$ ( 2.60 ) \*

IEF236I ALLOC. FOR VSTESTR2 LKED PL1F
IEF237I 253 ALLOCATED TO SYSLIB
IEF237I 253 ALLOCATED TO
IEF237I 253 ALLOCATED TO SYS00368
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 VSTESTR2 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.T181702.RA000.VSTESTR2.GOSET PASSED \*-----57
IEF285I VOL SER NOS= WORK00.
IEF285I SYS20189.T181702.RA000.VSTESTR2.SYSUT1 DELETED \*-----0
IEF285I VOL SER NOS= MVS370.
IEF285I JES2.JOB00156.SO0102 SYSOUT

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IEF285I  SYS20189.T181702.RA000.VSTESTR2.LOADSET      DELETED      *-----215
IEF285I  VOL SER NOS= MVS380.
IEF373I  STEP /LKED      / START 20189.1817
IEF374I  STEP /LKED      / STOP  20189.1817 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 18:17:02  TCB TIME 00:00:00.04 *
* PGM NAME   IEWL      SYSTEM CORE    168K  DISKS USED/IO 004/000000378  STOP   TIME 18:17:03  SRB TIME 00:00:00.01 *
* COND CODE  0000      PRIVATE AREA SZ 4096K  ALLOC TIME 18:17:02  ELAPSED TIME          PGM LOAD 18:17:02 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004      1931      00:00:00.06          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.01) + EXCP $ ( 0.51) + MEMORY $ ( 0.02) = TOTAL $ ( 0.54)                               *
*****
IEF236I  ALLOC. FOR VSTESTR2 GO PL1F
IEF237I  251  ALLOCATED TO PGM=*.DD
IEF237I  253  ALLOCATED TO STEPLIB
IEF237I  253  ALLOCATED TO
IEF237I  253  ALLOCATED TO SYS00370
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  JES2 ALLOCATED TO PRINTR
IEF237I  190  ALLOCATED TO IMAGES
IEF237I  190  ALLOCATED TO SYS00372
IEF237I  JES2 ALLOCATED TO SYSUDUMP
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  190  ALLOCATED TO RRDSF01
IEF142I  VSTESTR2 GO PL1F - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS20189.T181702.RA000.VSTESTR2.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.JOB00156.SO0103      SYSOUT
IEF285I  JES2.JOB00156.SO0104      SYSOUT
IEF285I  PUB001.VSAMTEST.DATA      KEPT      *-----11
IEF285I  VOL SER NOS= PUB001.
IEF285I  UCPUB001      KEPT      *-----0
IEF285I  VOL SER NOS= PUB001.
IEF285I  JES2.JOB00156.SO0105      SYSOUT
IEF285I  JES2.JOB00156.SO0106      SYSOUT
IEF285I  PUB001.VSTESTRR.CLUSTER    KEPT      *-----3
IEF285I  VOL SER NOS= PUB001.
IEF373I  STEP /GO      / START 20189.1817
IEF374I  STEP /GO      / STOP  20189.1817 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 18:17:03  TCB TIME 00:00:00.02 *
* PGM NAME   PGM=*.DD  SYSTEM CORE    180K  DISKS USED/IO 003/000000014  STOP   TIME 18:17:03  SRB TIME 00:00:00.00 *
* COND CODE  0000      PRIVATE AREA SZ 4096K  ALLOC TIME 18:17:03  ELAPSED TIME          PGM LOAD 18:17:03 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004      96      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.T181703.RA000.VSTESTR2.R0000001    KEPT      *-----0
IEF285I  VOL SER NOS= WORK00.
IEF285I  SYS20189.T181702.RA000.VSTESTR2.GOSET      DELETED

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IEF285I VOL SER NOS= WORK00.  
IEF375I JOB /VSTESTR2/ START 20189.1817  
IEF376I JOB /VSTESTR2/ STOP 20189.1817 CPU 0MIN 00.22SEC SRB 0MIN 00.05SEC

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

LOAD,NODECK,ATR,XREF,CHAR60,MACRO

THE COMPLETE LIST OF OPTIONS USED DURING THIS COMPILATION IS--

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

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

COMPILE-TIME MACRO PROCESSOR  
MACRO SOURCE2 LISTING

```
1  /*****18640000
2  18650000
3  RRDSLODS - TESTS THE VSAMIO ROUTINE BY LOADING AN RRDS CLUSTER 18660000
4  SEQUENTIALLY WITH RECORDS FROM A SEQUENTIAL DATASET. THE 18670000
5  RELATIVE RECORD NUMBER IS GENERATED SEQUENTIALLY AS THE 18680000
6  RECORDS ARE WRITTEN SO THERE ARE NO GAPS LEFT IN THE 18690000
7  RESULTING CLUSTER. 18700000
8  18710000
9  *****/18720000
10 RRDSLOS: 18730000
11 PROCEDURE OPTIONS(MAIN); 18740000
12 18750000
13 ON ERROR 18760000
14 BEGIN; 18770000
15 ON ERROR SYSTEM; 18780000
16 PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 18790000
17 PUT SKIP DATA; 18800000
18 PUT SKIP(3) LIST((54)'*' || ' DEBUG AID ' || (54)'*'); 18810000
19 END; 18820000
20 18830000
21 OPEN 18840000
22 FILE(IMAGES), 18850000
23 FILE(PRINTR) LINESIZE(121); 18860000
24 18870000
25 ON ENDFILE(IMAGES) 18880000
26 MORE_RECORDS = NO; 18890000
27 18900000
28 PRINT_AREA = 'RRDSLODS: WRITE RRDS SEQUENTIALLY'; 18910000
29 WRITE FILE(PRINTR) FROM(PRINT_LINE); 18920000
30 PRINT_AREA = '-----'; 18930000
31 WRITE FILE(PRINTR) FROM(PRINT_LINE); 18940000
32 PRINT_AREA = ' '; 18950000
33 WRITE FILE(PRINTR) FROM(PRINT_LINE); 18960000
34 18970000
35 MORE_RECORDS = YES; 18980000
36 18990000
37 /*****19000000
38 ESTABLISH PARAMETERS FOR VSAM DATASET AND CALL ROUTINE TO OPEN 19010000
39 *****/19020000
40 VSFB_DDNAME = 'RRDSF01'; 19030000
41 VSFB_ORGANIZATION = VSIO_RRDS; 19040000
42 VSFB_ACCESS = VSIO_SEQUENTIAL; 19050000
43 VSFB_MODE = VSIO_OUTPUT; 19060000
44 VSFB_RECORD_LENGTH = 80; 19070000
```





## MACRO SOURCE2 LISTING

```
90 CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET 19530000
91 *****/19540000
92 VSIO_COMMAND = VSIO_WRITE; 19550000
93 CALL VSAMIOP (VSIO_PARAMETER_BLOCK, 19560000
94 VSIO_FILE_BLOCK, 19570000
95 RECORD_IMAGE); 19580000
96 IF (VSIO_RETURN_CODE = VSIO_RC_SUCCESS) THEN 19590000
97 CALL VSIO_ERROR; 19600000
98 ELSE 19610000
99 RECORD_COUNTER = RECORD_COUNTER + 1; 19620000
100 19630000
101 RETURN; 19640000
102 19650000
103 END WRITE_RR; 19660000
104 19670000
105 VSIO_ERROR: 19680000
106 PROCEDURE; 19690000
107 PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' || 19700000
108 VSIO_COMMAND; 19710000
109 WRITE FILE(PRINTR) FROM(PRINT_LINE); 19720000
110 PRINT_AREA = 'VSIO_RETURN_CODE = ' || 19730000
111 VSIO_RETURN_CODE; 19740000
112 WRITE FILE(PRINTR) FROM(PRINT_LINE); 19750000
113 PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' || 19760000
114 VSIO_VSAM_RETURN_CODE; 19770000
115 WRITE FILE(PRINTR) FROM(PRINT_LINE); 19780000
116 PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' || 19790000
117 VSIO_VSAM_FUNCTION_CODE; 19800000
118 WRITE FILE(PRINTR) FROM(PRINT_LINE); 19810000
119 PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' || 19820000
120 VSIO_VSAM_FEEDBACK_CODE; 19830000
121 WRITE FILE(PRINTR) FROM(PRINT_LINE); 19840000
122 PRINT_AREA = ' '; 19850000
123 19860000
124 RETURN; 19870000
125 19880000
126 END VSIO_ERROR; 19890000
127 19900000
128 DECLARE 19910000
129 IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL 19920000
130 ENV(F), 19930000
131 PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL 19940000
132 ENV(F CTLASA); 19950000
133 19960000
134 DECLARE 19970000
```

## MACRO SOURCE2 LISTING

```

135     COUNTER_EDIT          PICTURE 'ZZ,ZZZ,ZZ9V',          19980000
136     MORE_RECORDS         BIT(1),                          19990000
137     NO                    BIT(1)  INIT('0'B),             20000000
138     RECORD_COUNTER        FIXED BINARY(15,0) INIT(0),      20010000
139     RECORD_NUMBER         FIXED BINARY(15,0) INIT(0),      20020000
140     YES                   BIT(1)  INIT('1'B);             20030000
141                                     20040000
142     DECLARE                20050000
143     1 RECORD_IMAGE,       20060000
144     2 RECORD_IDENT        CHAR(7),                          20070000
145     2 RECORD_SEQUENCE     CHAR(3),                          20080000
146     2 RECORD_FIELDS       CHAR(70);                         20090000
147                                     20100000
148     DECLARE                20110000
149     1 PRINT_LINE,         20120000
150     2 CARRIAGE_CONTROL    CHAR(1)  INIT(' '),              20130000
151     2 PRINT_AREA          CHAR(120);                         20140000
152                                     20150000
153     %INCLUDE (VSAMIO);    20160000
154     %INCLUDE (VSAMIOFB); 20170000
155                                     20180000
156     END RRDSLOS;         20190000

```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIO

```

157 /*****31100000
158                                     31110000
159     VV  VV  SSSSS  A  M  M  IIII  OOOO  31120000
160     VV  VV  SS  SS  AAA  MM  MM  II  OO  OO  31130000
161     VV  VV  SS  AA  AA  MMM  MMM  II  OO  OO  31140000
162     VV  VV  SSSSS  AA  AA  MMMMMMM  II  OO  OO  31150000
163     VV  VV  SS  AA  AA  MM  M  MM  II  OO  OO  31160000
164     VV  VV  SS  SS  AAAAAA  MM  MM  II  OO  OO  31170000
165     VVV  SS  SS  AA  AA  MM  MM  II  OO  OO  31180000
166     V  SSSSS  AA  AA  MM  MM  IIII  OOOO  31190000
167                                     31200000
168     *****/31210000
169     THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET ACCESS 31220000
170     ROUTINE. 31230000
171                                     31240000
172     THE VSIO_PARAMETER_VALUES SUPPLY THE VALUES USED TO MOVE INTO 31250000
173     PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET AND 31260000
174     TO PROVIDE COMMANDS TO DRIVE THE ROUTINE. 31270000
175     *****/31280000

```

## MACRO SOURCE2 LISTING

```
176                                                                 31290000
177     DECLARE                                                                 31300000
178         1 VSIO_PARAMETER_VALUES     STATIC,                               31310000
179             2 VSIO_OPEN               CHAR(8)   INIT('OPEN   '),           31320000
180             2 VSIO_CLOSE              CHAR(8)   INIT('CLOSE  '),           31330000
181             2 VSIO_READ                CHAR(8)   INIT('READ   '),           31340000
182             2 VSIO_WRITE               CHAR(8)   INIT('WRITE  '),           31350000
183             2 VSIO_REWRITE             CHAR(8)   INIT('REWRITE'),           31360000
184             2 VSIO_DELETE              CHAR(8)   INIT('DELETE '),           31370000
185             2 VSIO_START_EQUAL         CHAR(8)   INIT('STARTEQ'),           31380000
186             2 VSIO_START_NOTLESS      CHAR(8)   INIT('STARTGE '),           31390000
187             2 VSIO_KSDS                CHAR(4)   INIT('KSDS'),             31400000
188             2 VSIO_ESDS                CHAR(4)   INIT('ESDS'),             31410000
189             2 VSIO_RRDS                CHAR(4)   INIT('RRDS'),             31420000
190             2 VSIO_SEQUENTIAL          CHAR(10)  INIT('SEQUENTIAL'),       31430000
191             2 VSIO_DIRECT              CHAR(10)  INIT('DIRECT  '),           31440000
192             2 VSIO_DYNAMIC             CHAR(10)  INIT('DYNAMIC  '),           31450000
193             2 VSIO_INPUT               CHAR(6)   INIT('INPUT  '),           31460000
194             2 VSIO_OUTPUT              CHAR(6)   INIT('OUTPUT'),           31470000
195             2 VSIO_INPUT_OUTPUT        CHAR(6)   INIT('UPDATE'),           31480000
196             2 (VSIO_RC_SUCCESS         INIT(0),                               31490000
197                 VSIO_RC_LOGIC_ERROR   INIT(8),                               31500000
198                 VSIO_RC_END_OF_FILE   INIT(9999),                             31510000
199                 VSIO_RC_UNKNOWN_COMMAND INIT(20),                             31520000
200                 VSIO_RC_DATASET_ALREADY_OPEN INIT(21),                         31530000
201                 VSIO_RC_DATASET_NOT_OPEN INIT(22),                             31540000
202                 VSIO_RC_ORGANIZATION_UNKNOWN INIT(23),                         31550000
203                 VSIO_RC_ACCESS_UNKNOWN INIT(24),                             31560000
204                 VSIO_RC_ORG_ACCESS_MISMATCH INIT(25),                         31570000
205                 VSIO_RC_MODE_UNKNOWN  INIT(26),                             31580000
206                 VSIO_RC_MODE_UNSUPPORTED INIT(27),                             31590000
207                 VSIO_RC_DDNAME_BLANK  INIT(28))                               31600000
208                 FIXED BINARY(15,0),                                         31610000
209             2 (VSIO_FB_DUPLICATE_RECORD INIT(8),                               31620000
210                 VSIO_FB_KEY_SEQUENCE  INIT(12),                             31630000
211                 VSIO_FB_RECORD_NOT_FOUND INIT(16),                             31640000
212                 VSIO_FB_NO_MORE_SPACE INIT(28),                             31650000
213                 VSIO_FB_READ_WITHOUT_START INIT(88))                          31660000
214                 FIXED BINARY(15,0),                                         31670000
215 /*****18640000/ 31680000
216     THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE 31690000
217     THE ROUTINE. 31700000
218     *****/ 31710000
219                                                                 31720000
220         1 VSIO_PARAMETER_BLOCK     STATIC,                               31730000
```

## MACRO SOURCE2 LISTING

```
221          2 VSIO_COMMAND          CHAR(8)  INIT(' '),          31740000
222          2 (VSIO_RETURN_CODE,          31750000
223            VSIO_VSAM_RC,              31760000
224            VSIO_VSAM_FUNCTION,        31770000
225            VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0); 31780000
226                                          31790000
227 /*****31800000
228                END OF VSAMIO COPY BOOK          31810000
229 *****/31820000
```

INCLUDED TEXT FOLLOWS FROM DD.MEMBER = SYSLIB .VSAMIOFB

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

MACRO SOURCE2 LISTING

```
262          2 VSFB_FILE_STATUS          CHAR(1)  INIT('C'),          00003300
263          2 VSFB_RESERVED              CHAR(161);          00003400
264                                          00003500
265 /*****                                *****/00003600
266          END OF VSAMIOFB COPY BOOK          00003700
267          *****/00003800
```

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

## SOURCE LISTING.

```

/*****
RRDSL0DS - TESTS THE VSAMIO ROUTINE BY LOADING AN RRDS CLUSTER
            SEQUENTIALLY WITH RECORDS FROM A SEQUENTIAL DATASET.  THE
            RELATIVE RECORD NUMBER IS GENERATED SEQUENTIALLY AS THE
            RECORDS ARE WRITTEN SO THERE ARE NO GAPS LEFT IN THE
            RESULTING CLUSTER.
*****/
1  RRDSL0S:
   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 = 'RRDSL0DS: WRITE RRDS 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 = 'RRDSF01';
20     VSFB_ORGANIZATION = VSIO_RRDS;
```

```

21          VSFB_ACCESS = VSIO_SEQUENTIAL;           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                      RECORD_NUMBER = RECORD_NUMBER +1; 60
38                      VSFB_KEY_LENGTH = RECORD_NUMBER; 61
39                      CALL WRITE_RR;                62
40                  END;                              63
41              END;                                  64
42          CLOSE FILE(IMAGES);                       65
43          /*****18640000                            66
44          CALL ROUTINE TO CLOSE VSAM DATASET        67
45          *****/                                     68
46          VSIO_COMMAND = VSIO_CLOSE;                69
47          CALL VSAMIOP (VSIO_PARAMETER_BLOCK,       70
                        VSIO_FILE_BLOCK,           71
                        RECORD_IMAGE);             72
48          IF (VSIO_RETURN_CODEa= VSIO_RC_SUCCESS) THEN 73
49              CALL VSIO_ERROR;                      74
50          COUNTER_EDIT = RECORD_COUNTER;            75
51          PRINT_AREA = COUNTER_EDIT ||             76
                    ' RECORDS WERE LOADED SUCCESSFULLY'; 77
52          WRITE FILE(PRINTR) FROM(PRINT_LINE);      78
53          RETURN;                                    79
54          WRITE_RR:                                  80
55          PROCEDURE;                                 81
56
57
58
59
60
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87

```

```

/*****
CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET
*****/
88
/*****
89
CALL ROUTINE TO WRITE RECORD INTO VSAM DATASET
89
*****/
89
91
52      VSIO_COMMAND = VSIO_WRITE;
92
53      CALL VSAMIOP (VSIO_PARAMETER_BLOCK,
93
                    VSIO_FILE_BLOCK,
94
                    RECORD_IMAGE);
95
54      IF (VSIO_RETURN_CODEa = VSIO_RC_SUCCESS) THEN
96
55          CALL VSIO_ERROR;
97
56      ELSE
98
56          RECORD_COUNTER = RECORD_COUNTER + 1;
99
100
57      RETURN;
101
102
58      END WRITE_RR;
103
104
59      VSIO_ERROR:
105
        PROCEDURE;
106
60          PRINT_AREA = 'VSAMIO ERROR OCCURRED DURING ' ||
107
                    VSIO_COMMAND;
108
61          WRITE FILE(PRINTR) FROM(PRINT_LINE);
109
62          PRINT_AREA = 'VSIO_RETURN_CODE = ' ||
110
                    VSIO_RETURN_CODE;
111
63          WRITE FILE(PRINTR) FROM(PRINT_LINE);
112
64          PRINT_AREA = 'VSIO_VSAM_RETURN_CODE = ' ||
113
                    VSIO_VSAM_RETURN_CODE;
114
65          WRITE FILE(PRINTR) FROM(PRINT_LINE);
115
66          PRINT_AREA = 'VSIO_VSAM_FUNCTION_CODE = ' ||
116
                    VSIO_VSAM_FUNCTION_CODE;
117
67          WRITE FILE(PRINTR) FROM(PRINT_LINE);
118
68          PRINT_AREA = 'VSIO_VSAM_FEEDBACK_CODE = ' ||
119
                    VSIO_VSAM_FEEDBACK_CODE;
120
69          WRITE FILE(PRINTR) FROM(PRINT_LINE);
121
70          PRINT_AREA = ' ';
122
123
71      RETURN;
124
125
72      END VSIO_ERROR;
126
127
73      DECLARE
128
        IMAGES FILE INPUT RECORD SEQUENTIAL EXTERNAL
129
        ENV(F),
130
        PRINTR FILE OUTPUT RECORD SEQUENTIAL EXTERNAL
131
        ENV(F CTLASA);
132
133
```





```

2 VSIO_START_EQUAL      CHAR(8)  INIT('STARTEQ '),      185
2 VSIO_START_NOTLESS   CHAR(8)  INIT('STARTGE '),      186
2 VSIO_KSDS             CHAR(4)   INIT('KSDS'),          187
2 VSIO_ESDS             CHAR(4)   INIT('ESDS'),          188
2 VSIO_RRDS             CHAR(4)   INIT('RRDS'),          189
2 VSIO_SEQUENTIAL      CHAR(10)  INIT('SEQUENTIAL'),    190
2 VSIO_DIRECT           CHAR(10)  INIT('DIRECT '),       191
2 VSIO_DYNAMIC          CHAR(10)  INIT('DYNAMIC '),      192
2 VSIO_INPUT            CHAR(6)   INIT('INPUT '),        193
2 VSIO_OUTPUT           CHAR(6)   INIT('OUTPUT'),        194
2 VSIO_INPUT_OUTPUT    CHAR(6)   INIT('UPDATE'),        195
2 (VSIO_RC_SUCCESS     INIT(0),      196
  VSIO_RC_LOGIC_ERROR  INIT(8),      197
  VSIO_RC_END_OF_FILE  INIT(9999),    198
  VSIO_RC_UNKNOWN_COMMAND INIT(20),    199
  VSIO_RC_DATASET_ALREADY_OPEN INIT(21),    200
  VSIO_RC_DATASET_NOT_OPEN INIT(22),    201
  VSIO_RC_ORGANIZATION_UNKNOWN INIT(23),    202
  VSIO_RC_ACCESS_UNKNOWN INIT(24),    203
  VSIO_RC_ORG_ACCESS_MISMATCH INIT(25),    204
  VSIO_RC_MODE_UNKNOWN INIT(26),    205
  VSIO_RC_MODE_UNSUPPORTED INIT(27),    206
  VSIO_RC_DDNAME_BLANK INIT(28))      207
  FIXED BINARY(15,0),      208
2 (VSIO_FB_DUPLICATE_RECORD INIT(8),      209
  VSIO_FB_KEY_SEQUENCE     INIT(12),    210
  VSIO_FB_RECORD_NOT_FOUND INIT(16),    211
  VSIO_FB_NO_MORE_SPACE    INIT(28),    212
  VSIO_FB_READ_WITHOUT_START INIT(88))   213
  FIXED BINARY(15,0),      214
/*.....*/ 215
  THE VSIO_PARAMETER_BLOCK IS THE COMMUNICATION INTERFACE TO THE 215
  THE ROUTINE. 215
  /*.....*/ 215
1 VSIO_PARAMETER_BLOCK  STATIC, 220
  2 VSIO_COMMAND        CHAR(8)  INIT(' '), 221
  2 (VSIO_RETURN_CODE, 222
    VSIO_VSAM_RC, 223
    VSIO_VSAM_FUNCTION, 224
    VSIO_VSAM_FEEDBACK) FIXED BINARY(15,0) INIT(0); 225
  226
/*.....*/ 227
  END OF VSAMIO COPY BOOK 227
  /*.....*/ 227
/*.....*/ 230
230

```

```

VV  VV  SSSSS  A    M    M  IIII  OOOOO  FFFFFFFF  BBBBBB  230
VV  VV  SS   SS   AAA  MM  MM  II   OO  OO  FF   BB  BB  230
VV  VV  SS           AA AA  MMM MMM  II   OO  OO  FF   BB  BB  230
VV  VV  SSSSS  AA  AA  MMMMMMMM  II   OO  OO  FFFFF  BBBBBB  230
VV  VV           SS  AA  AA  MM M MM  II   OO  OO  FF   BB  BB  230
  VV VV  SS   SS  AAAAAA  MM  MM  II   OO  OO  FF   BB  BB  230
    VVV  SS   SS  AA  AA  MM  MM  II   OO  OO  FF   BB  BB  230
      V   SSSSS  AA  AA  MM  MM  IIII  OOOOO  FF   BBBBBB  230

```

```

*****
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.

```

\*\*\*\*\*/

78

```

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

\*\*\*\*\*/

79

END RRDSLOS;

## ATTRIBUTE AND CROSS-REFERENCE TABLE

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
76	CARRIAGE_CONTROL	IN PRINT_LINE,AUTOMATIC,UNALIGNED,INITIAL,STRING(1),CHARACTER
74	COUNTER_EDIT	AUTOMATIC,UNALIGNED,DECIMAL,PICTURE(ZZ,ZZZ,ZZ9V) 47,48
73	IMAGES	FILE,EXTERNAL,INPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F) 9,10,34,42
74	MORE_RECORDS	AUTOMATIC,UNALIGNED,STRING(1),BIT 11,18,33,35
74	NO	AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT 11
76	PRINT_AREA	IN PRINT_LINE,AUTOMATIC,UNALIGNED,STRING(120),CHARACTER 12,14,16,48,60,62,64,66,68,70
76	PRINT_LINE	AUTOMATIC,STRUCTURE 13,15,17,49,61,63,65,67,69
73	PRINTR	FILE,EXTERNAL,OUTPUT,RECORD,SEQUENTIAL,ENVIRONMENT(F CTLASA) 9,13,15,17,49,61,63,65,67,69
74	***** RECORD_COUNTER	AUTOMATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0) 47,56,56
75	RECORD_FIELDS	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(70),CHARACTER
75	RECORD_IDENT	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(7),CHARACTER
75	RECORD_IMAGE	AUTOMATIC,STRUCTURE 27,34,44,53
74	***** RECORD_NUMBER	AUTOMATIC,ALIGNED,INITIAL,BINARY,FIXED(15,0) 37,37,38
75	RECORD_SEQUENCE	IN RECORD_IMAGE,AUTOMATIC,UNALIGNED,STRING(3),CHARACTER
1	RRDSLOS	ENTRY,DECIMAL,FLOAT(SINGLE)
	SYSPRINT	FILE,EXTERNAL

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
		5,6,7
	VSAMIOP	EXTERNAL, ENTRY, DECIMAL, FLOAT(SINGLE) 27,44,53
78	VSFB_ACCESS	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER 21
78	VSFB_DDNAME	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 19
78	VSFB_FILE_STATUS	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(1), CHARACTER
78	***** VSFB_KEY_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 25,38
78	***** VSFB_KEY_POSITION	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 24
78	VSFB_MODE	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(6), CHARACTER 22
78	VSFB_ORGANIZATION	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(4), CHARACTER 20
78	***** VSFB_RECORD_LENGTH	IN VSIO_FILE_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED(15,0) 23
78	VSFB_RESERVED	IN VSIO_FILE_BLOCK, STATIC, UNALIGNED, STRING(161), CHARACTER
77	VSIO_CLOSE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 43
77	VSIO_COMMAND	IN VSIO_PARAMETER_BLOCK, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER 26,43,52,60
77	VSIO_DELETE	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
77	VSIO_DIRECT	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(10), CHARACTER
77	VSIO_DYNAMIC	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(10),

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
		CHARACTER
59	VSIO_ERROR	ENTRY,DECIMAL,FLOAT(SINGLE) 30,46,55
77	VSIO_ESDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
77	***** VSIO_FB_DUPLICATE_RECORD	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
77	***** VSIO_FB_KEY_SEQUENCE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
77	***** VSIO_FB_NO_MORE_SPACE	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
77	***** VSIO_FB_READ_WITHOUT_START	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
77	***** VSIO_FB_RECORD_NOT_FOUND	IN VSIO_PARAMETER_VALUES,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
78	VSIO_FILE_BLOCK	STATIC,STRUCTURE 27,44,53
77	VSIO_INPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
77	VSIO_INPUT_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER
77	VSIO_KSDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER
77	VSIO_OPEN	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER 26
77	VSIO_OUTPUT	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(6), CHARACTER 22
77	VSIO_PARAMETER_BLOCK	STATIC,STRUCTURE 27,44,53

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
77	VSIO_PARAMETER_VALUES	STATIC, STRUCTURE
77	***** VSIO_RC_ACCESS_UNKNOWN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_DATASET_ALREADY_OPEN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_DATASET_NOT_OPEN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_DDNAME_BLANK	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_END_OF_FILE	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_LOGIC_ERROR	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_MODE_UNKNOWN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_MODE_UNSUPPORTED	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_ORG_ACCESS_MISMATCH	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_ORGANIZATION_UNKNOWN	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	***** VSIO_RC_SUCCESS	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0) 28,45,54
77	***** VSIO_RC_UNKNOWN_COMMAND	IN VSIO_PARAMETER_VALUES, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)
77	VSIO_READ	IN VSIO_PARAMETER_VALUES, STATIC, UNALIGNED, INITIAL, STRING(8), CHARACTER
77	***** VSIO_RETURN_CODE	IN VSIO_PARAMETER_BLOCK, STATIC, ALIGNED, INITIAL, BINARY, FIXED (15,0)

DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
		28,45,54,62
77	VSIO_REWRITE	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER
77	VSIO_RRDS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(4), CHARACTER 20
77	VSIO_SEQUENTIAL	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(10), CHARACTER 21
77	VSIO_START_EQUAL	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER
77	VSIO_START_NOTLESS	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER
77	***** VSIO_VSAM_FEEDBACK	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
	VSIO_VSAM_FEEDBACK_CODE	AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE) 68
77	***** VSIO_VSAM_FUNCTION	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
	VSIO_VSAM_FUNCTION_CODE	AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE) 66
77	***** VSIO_VSAM_RC	IN VSIO_PARAMETER_BLOCK,STATIC,ALIGNED,INITIAL,BINARY,FIXED (15,0)
	VSIO_VSAM_RETURN_CODE	AUTOMATIC,ALIGNED,DECIMAL,FLOAT(SINGLE) 64
77	VSIO_WRITE	IN VSIO_PARAMETER_VALUES,STATIC,UNALIGNED,INITIAL,STRING(8), CHARACTER 52
51	WRITE_RR	ENTRY,DECIMAL,FLOAT(SINGLE) 39
74	YES	AUTOMATIC,UNALIGNED,INITIAL,STRING(1),BIT



DCL NO.	IDENTIFIER	ATTRIBUTES AND REFERENCES
---------	------------	---------------------------

		18
--	--	----

AGGREGATE LENGTH TABLE

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

STORAGE REQUIREMENTS.

-----  
THE STORAGE AREA FOR THE PROCEDURE LABELLED RRDSLOS IS 544 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 RRDSLOS AND IS 1726 BYTES LONG.  
THE STATIC CSECT IS NAMED RRDSLOSA AND IS 5640 BYTES LONG.

\*STATISTICS\*      MACRO RECORDS =            267, SOURCE RECORDS =            269, PROG TEXT STMNTS =            79, OBJECT BYTES =            1726

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	51	52	53	54	55	56	57	58

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	59	60	61	62	63	64	65	66	67	68	69	70	71	72

TABLE OF OFFSETS AND STATEMENT NUMBERS WITHIN PROCEDURE RRDSLOS

OFFSET (HEX)	0000	00F4	0102	010C	011A	0126	013E	014A	0162	016E	0186	018C	0192	0198	0198	019E	01A4	01AA	01B0	01B6	01D2
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)	01DE	01DE	01E8	01EE	01EE	01F6	020E	0216	0216	0222	0228	0232	0232	0236	0240	0246	0262	026E	0278	0292	02AE
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)	02C6	02CC
STATEMENT NO	50	79

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 64, 66, 68.

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.

RRDSLODS: WRITE RRDS SEQUENTIALLY

-----

100 RECORDS WERE LOADED SUCCESSFULLY