

J E S 2 J O B L O G

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17.10.44 JOB 121 IEF677I WARNING MESSAGE(S) FOR JOB VSTEST02 ISSUED
17.10.44 JOB 121 $HASP373 VSTEST02 STARTED - INIT 1 - CLASS A - SYS HMVS
17.10.44 JOB 121 IEF403I VSTEST02 - STARTED - TIME=17.10.44
17.10.44 JOB 121 CCI001C IDCAMS1 /IDCAMS /00:00:00.03/ /00000/1 /VSTEST02
17.10.44 JOB 121 IEC130I SYSPUNCH DD STATEMENT MISSING
17.10.44 JOB 121 IEC130I SYSPUNCH DD STATEMENT MISSING
17.10.44 JOB 121 CCI001C COB /IKFCBL00/00:00:00.07/ /00000/1 /VSTEST02
17.10.44 JOB 121 CCI001C LKED /IEWL /00:00:00.02/ /00000/1 /VSTEST02
17.10.44 JOB 121 CCI001C GO /PGM=*.DD/00:00:00.03/ /00000/1 /VSTEST02
17.10.44 JOB 121 IEF404I VSTEST02 - ENDED - TIME=17.10.44
17.10.44 JOB 121 $HASP395 VSTEST02 ENDED
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----- JES2 JOB STATISTICS -----

07 JUL 20 JOB EXECUTION DATE

253 CARDS READ

769 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

1	//VSTEST02 JOB 1,'VSAMIO IVP KSDSLVAR ',CLASS=A,MSGCLASS=X,	JOB 121
	// REGION=4096K	00020000
	***	00030000
	*****	00040000
	*** COBOL MODULE: KSDSLVAR VSAM DATASET: VSTESTK1.CLUSTER (KSDS)	00050000
	***	00060000
	*** SEQUENTIALLY LOADS VARIABLE LENGTH KSDS DATASET - ASSUMES VSAM	00070000
	*** DATASPACE DEFINED ON VOLUME PUB001!	00070000
	*****	00080000
	***	00090000
2	//IDCAMS1 EXEC PGM=IDCAMS,REGION=4096K	00100000
3	//SYSPRINT DD SYSOUT=*	00110000
4	//SYSIN DD *	00120000
	***	00360000
	*****	00370000
	*** LOAD DATASET (PUB001.VSTESTK1.CLUSTER) FROM SYSIN IMAGES	00380000
	*****	00390000
	***	00400000
5	//COB EXEC COBUCLG,REGION.GO=1024K,CPARM1='LOAD,LIB,DMAP'	00410000
6	XXCOBUCLG PROC CPARM1='LOAD,SUPMAP',	100010000
	XX CPARM2='SIZE=2048K,BUF=1024K'	00020000
7	XXCOB EXEC PGM=IKFCBL00,REGION=4096K,	00040001
	XX PARM='&CPARM1,&CPARM2'	00050001
8	XXSTEPLIB DD DSN=SYSC.LINKLIB,DISP=SHR	00051001
9	XXSYSPRINT DD SYSOUT=*	00060000
10	XXSYSUT1 DD UNIT=SYSDA,SPACE=(460,(700,100))	00070000
11	XXSYSUT2 DD UNIT=SYSDA,SPACE=(460,(700,100))	00080000
12	XXSYSUT3 DD UNIT=SYSDA,SPACE=(460,(700,100))	00090000
13	XXSYSUT4 DD UNIT=SYSDA,SPACE=(460,(700,100))	00100000
14	XXSYSLIN DD DSN=&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA,	00110000
	XX SPACE=(80,(500,100))	00120000
15	//COB.SYSLIB DD DSN=SYSC.VSAMIO.SOURCE,DISP=SHR	00430000
16	//COB.SYSIN DD DSN=SYSC.VSAMIO.SOURCE(KSDSLVAR),DISP=SHR	00500000
17	XXLKED EXEC PGM=IEWL,PARM='LIST,XREF,LET',COND=(5,LT,COB),REGION=96K	00130000
18	XXSYSLIN DD DSN=&LOADSET,DISP=(OLD,DELETE)	00140000
19	XX DD DDNAME=SYSIN	00150000
20	XXSYSLMOD DD DSN=&GODATA(RUN),DISP=(NEW,PASS),UNIT=SYSDA,	00160000
	XX SPACE=(1024,(50,20,1))	00170000
21	//LKED.SYSLIB DD	00580000
	X/SYSLIB DD DSN=SYSC.COBLIB,DISP=SHR	00180000
22	// DD DSN=SYSC.LINKLIB,DISP=SHR	00590000
23	XXSYSUT1 DD UNIT=SYSDA,SPACE=(1024,(50,20))	00190000
24	XXSYSPRINT DD SYSOUT=*	00200000
25	XXGO EXEC PGM=*.LKED.SYSLMOD,COND=((5,LT,COB),(5,LT,LKED))	00210000
26	//GO.SYSOUT DD SYSOUT=*	00630000
27	//GO.SYSUDUMP DD SYSOUT=*	00640000
28	//GO.SYSIN DD *	00650000
29	//GO.STMASTR DD DSN=PUB001.VSTESTK1.CLUSTER,DISP=OLD	00680000

STMT NO. MESSAGE

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7      IEF653I SUBSTITUTION JCL - PARM='LOAD,LIB,DMAP,SIZE=2048K,BUF=1024K'
25     IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED
IEF236I ALLOC. FOR VSTEST02 IDCAMS1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSIN
IEF237I 190 ALLOCATED TO SYS00001
IEF142I VSTEST02 IDCAMS1 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   JES2.JOB00121.SO0103           SYSOUT
IEF285I   JES2.JOB00121.SI0101           SYSIN
IEF285I   UCPUB001                        KEPT          *-----0
IEF285I   VOL SER NOS= PUB001.
IEF373I STEP /IDCAMS1 / START 20189.1710
IEF374I STEP /IDCAMS1 / STOP 20189.1710 CPU      OMIN 00.03SEC SRB      OMIN 00.00SEC VIRT  284K SYS  236K
**** JOBCARD READ 20189 17:10:44 ****
*
*          PRC-CCI 370/148 VS2 R03.8  HMVS  STEP STATISTICS
* STEP NAME  IDCAMS1      USER CORE      284K  TAPES USED/IO 000/000000000  START  TIME 17:10:44  TCB TIME 00:00:00.03 *
* PGM NAME   IDCAMS      SYSTEM CORE    236K  DISKS USED/IO 001/000000000  STOP   TIME 17:10:44  SRB TIME 00:00:00.00 *
* COND CODE  0000      PRIVATE AREA SZ  4096K  ALLOC TIME 17:10:44  ELAPSED TIME          PGM LOAD 17:10:44 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004      42 00:00:00.05          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ ( 0.01) + EXCP $ ( 0.00) + MEMORY $ ( 0.02) = TOTAL $ ( 0.03)
*****
IEF236I ALLOC. FOR VSTEST02 COB COB
IEF237I 253 ALLOCATED TO STEPLIB
IEF237I 253 ALLOCATED TO SYS00185
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 380 ALLOCATED TO SYSUT1
IEF237I 251 ALLOCATED TO SYSUT2
IEF237I 370 ALLOCATED TO SYSUT3
IEF237I 252 ALLOCATED TO SYSUT4
IEF237I 251 ALLOCATED TO SYSLIN
IEF237I 253 ALLOCATED TO SYSLIB
IEF237I 253 ALLOCATED TO SYSIN
IEC130I SYSPUNCH DD STATEMENT MISSING
IEC130I SYSPUNCH DD STATEMENT MISSING
IEF142I VSTEST02 COB COB - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYSC.LINKLIB                        KEPT          *-----0
IEF285I   VOL SER NOS= SYSCP.
IEF285I   UCSYSCP.                            KEPT          *-----0
IEF285I   VOL SER NOS= SYSCP.
IEF285I   JES2.JOB00121.SO0104           SYSOUT
IEF285I   SYS20189.T171044.RA000.VSTEST02.R0000001  DELETED      *-----6
IEF285I   VOL SER NOS= MVS380.
IEF285I   SYS20189.T171044.RA000.VSTEST02.R0000002  DELETED      *-----6
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS20189.T171044.RA000.VSTEST02.R0000003  DELETED      *-----9
IEF285I   VOL SER NOS= MVS370.
IEF285I   SYS20189.T171044.RA000.VSTEST02.R0000004  DELETED      *-----8
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS20189.T171044.RA000.VSTEST02.LOADSET  PASSED       *-----83
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYSC.VSAMIO.SOURCE             KEPT          *-----6
IEF285I   VOL SER NOS= SYSCP.
IEF285I   SYSC.VSAMIO.SOURCE             KEPT          *-----4
IEF285I   VOL SER NOS= SYSCP.
IEF373I STEP /COB / START 20189.1710
IEF374I STEP /COB / STOP 20189.1710 CPU      OMIN 00.07SEC SRB      OMIN 00.02SEC VIRT  2076K SYS  188K
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*
* PRC-CCI 370/148 VS2 R03.8 HMVS STEP STATISTICS
* STEP NAME COB USER CORE 2076K TAPES USED/IO 000/000000000 START TIME 17:10:44 TCB TIME 00:00:00.07
* PGM NAME IKFCBL00 SYSTEM CORE 188K DISKS USED/IO 005/000000122 STOP TIME 17:10:44 SRB TIME 00:00:00.02
* COND CODE 0000 PRIVATE AREA SZ 4096K ALLOC TIME 17:10:44 ELAPSED TIME PGM LOAD 17:10:44
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004 733 00:00:00.09 0 0 0 0 0 0 0
*****
* CPU $ ( 0.02) + EXCP $ ( 0.16) + MEMORY $ ( 0.41) = TOTAL $ ( 0.59)
*****
IEF236I ALLOC. FOR VSTEST02 LKED COB
IEF237I 251 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 380 ALLOCATED TO SYSLMOD
IEF237I 253 ALLOCATED TO SYSLIB
IEF237I 253 ALLOCATED TO
IEF237I 253 ALLOCATED TO SYS00187
IEF237I 370 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I VSTEST02 LKED COB - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS20189.T171044.RA000.VSTEST02.LOADSET DELETED *-----84
IEF285I VOL SER NOS= WORK00.
IEF285I SYS20189.T171044.RA000.VSTEST02.GODATA PASSED *-----12
IEF285I VOL SER NOS= MVS380.
IEF285I SYSC.COBLIB KEPT *-----27
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.T171044.RA000.VSTEST02.R0000005 DELETED *-----0
IEF285I VOL SER NOS= MVS370.
IEF285I JES2.JOB00121.SO0105 SYSOUT
IEF373I STEP /LKED / START 20189.1710
IEF374I STEP /LKED / STOP 20189.1710 CPU OMIN 00.02SEC SRB OMIN 00.00SEC VIRT 260K SYS 172K
*****
* PRC-CCI 370/148 VS2 R03.8 HMVS STEP STATISTICS
* STEP NAME LKED USER CORE 260K TAPES USED/IO 000/000000000 START TIME 17:10:44 TCB TIME 00:00:00.02
* PGM NAME IEWL SYSTEM CORE 172K DISKS USED/IO 004/000000123 STOP TIME 17:10:44 SRB TIME 00:00:00.00
* COND CODE 0000 PRIVATE AREA SZ 4096K ALLOC TIME 17:10:44 ELAPSED TIME PGM LOAD 17:10:44
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
* 004 644 00:00:00.03 0 0 0 0 0 0 0
*****
* CPU $ ( 0.00) + EXCP $ ( 0.16) + MEMORY $ ( 0.01) = TOTAL $ ( 0.17)
*****
IEF236I ALLOC. FOR VSTEST02 GO COB
IEF237I 380 ALLOCATED TO PGM=*.DD
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF237I JES2 ALLOCATED TO SYSIN
IEF237I 190 ALLOCATED TO STMASTR
IEF237I 190 ALLOCATED TO SYS00189
IEF142I VSTEST02 GO COB - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS20189.T171044.RA000.VSTEST02.GODATA KEPT *-----0
IEF285I VOL SER NOS= MVS380.
IEF285I JES2.JOB00121.SO0106 SYSOUT
IEF285I JES2.JOB00121.SO0107 SYSOUT
IEF285I JES2.JOB00121.SI0102 SYSIN
IEF285I PUB001.VSTESTK1.CLUSTER KEPT *-----37
IEF285I VOL SER NOS= PUB001.
IEF285I UCPUB001 KEPT *-----0
IEF285I VOL SER NOS= PUB001.

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IEF373I STEP /GO          / START 20189.1710
IEF374I STEP /GO          / STOP  20189.1710 CPU    OMIN 00.03SEC SRB    OMIN 00.00SEC VIRT    52K SYS    188K
*****
*                               PRC-CCI  370/148 VS2 R03.8  HMVS  STEP STATISTICS                               *
* STEP NAME  GO                USER CORE    52K  TAPES USED/IO 000/000000000  START  TIME  17:10:44  TCB TIME  00:00:00.03 *
* PGM NAME  PGM=* .DD          SYSTEM CORE    188K  DISKS USED/IO 002/000000037  STOP   TIME  17:10:44  SRB TIME  00:00:00.00 *
* COND CODE  0000              PRIVATE AREA SZ  4096K  ALLOC TIME  17:10:44  ELAPSED TIME  PGM LOAD  17:10:44 *
** PGNO * NR SRV UNITS * ACTIVE TIME ** PAGES IN *** PAGES OUT ** # SWAPS * PGS SWAP IN * PGS SWAP OUT * VIO PGS IN * VIO PGS OUT **
*  004          244    00:00:00.07          0          0          0          0          0          0          0          0          0 *
*****
* CPU $ (    0.01) + EXCP $ (    0.04) + MEMORY $ (    0.00) = TOTAL $ (    0.05)                               *
*****
IEF237I 380  ALLOCATED TO SYS00002
IEF285I  SYS20189.T171044.RA000.VSTEST02.R0000002  KEPT          *-----0
IEF285I  VOL SER NOS= MVS380.
IEF285I  SYS20189.T171044.RA000.VSTEST02.GODATA    DELETED
IEF285I  VOL SER NOS= MVS380.
IEF375I  JOB /VSTEST02/ START 20189.1710
IEF376I  JOB /VSTEST02/ STOP  20189.1710 CPU    OMIN 00.15SEC SRB    OMIN 00.02SEC

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00130000
/* DELETE STUDENT CLUSTER (KSDS VARIABLE LENGTH RECORDS) */ 00140000
DELETED PUB001.VSTESTK1.CLUSTER CLUSTER PURGE 00150000
00160000
```

```
IDC3012I ENTRY PUB001.VSTESTK1.CLUSTER NOT FOUND
IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLAG-6
IDC0551I **ENTRY PUB001.VSTESTK1.CLUSTER NOT DELETED
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8
```

```
00170000
/* IF THERE WAS NO CLUSTER TO DELETE, RESET CC */ 00170010
IF LASTCC = 8 THEN 00170020
DO 00170030
    SET LASTCC = 0 00170040
    SET MAXCC = 0 00170050
END 00170060
00170070
```

```
00170080
/* DEFINE KSDS CLUSTER */ 00180000
DEFINE CLUSTER ( 00190000
    NAME ( PUB001.VSTESTK1.CLUSTER ) - 00200000
    VOLUMES ( PUB001 ) - 00210000
    RECORDSIZE ( 19 83 ) - 00220000
    RECORDS( 50 50 ) - 00230000
    KEYS ( 10 0 ) - 00240000
    INDEXED - 00250000
) - 00260000
DATA ( 00270000
    NAME ( PUB001.VSTESTK1.DATA ) - 00280000
) - 00290000
INDEX ( 00300000
    NAME ( PUB001.VSTESTK1.INDEX ) - 00310000
) - 00320000
00330000
```

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IDC0508I DATA ALLOCATION STATUS FOR VOLUME PUB001 IS 0
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IDC0509I INDEX ALLOCATION STATUS FOR VOLUME PUB001 IS 0
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IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
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00340000
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IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0

1

00001	000100	IDENTIFICATION DIVISION.			15180000
00002	000200	PROGRAM-ID. KSDSLVAR.			15190000
00003	000300	AUTHOR. JAY MOSELEY.			15200000
00004	000400	DATE-WRITTEN. NOVEMBER, 2001.			15210000
00005	000500	DATE-COMPILED. JUL 7,1920.			15220000
00006	001200	ENVIRONMENT DIVISION.			15290000
00007	001300	CONFIGURATION SECTION.			15300000
00008	001400	SOURCE-COMPUTER. IBM-370.			15310000
00009	001500	OBJECT-COMPUTER. IBM-370.			15320000
00010	001600				15330000
00011	001700	INPUT-OUTPUT SECTION.			15340000
00012	001800	FILE-CONTROL.			15350000
00013	001900				15360000
00014	002000	SELECT RECORD-IMAGES			15370000
00015	002100	ASSIGN TO UR-2540R-S-SYSIN.			15380000
00016	002200				15390000
00017	002300	DATA DIVISION.			15400000
00018	002400	FILE SECTION.			15410000
00019	002500	FD RECORD-IMAGES			15420000
00020	002600	LABEL RECORDS ARE OMITTED			15430000
00021	002700	BLOCK CONTAINS 0 RECORDS			15440000
00022	002800	DATA RECORDS IS RECORD-IMAGE.			15450000
00023	002900				15460000
00024	003000	01 RECORD-IMAGE.			15470000
00025	003100	02 FILLER	PIC X(07).		15480000
00026	003200	02 RI-COLUMN-8	PIC X(01).		15490000
00027	003300	02 FILLER	PIC X(72).		15500000
00028	003400				15510000
00029	003500	WORKING-STORAGE SECTION.			15520000
00030	003600	77 END-OF-FILE-SWITCH	PIC X(1)	VALUE 'N'.	15530000
00031	003700	88 END-OF-FILE		VALUE 'Y'.	15540000
00032	003800				15550000
00033	003900	* *****			*15560000
00034	004000	* TWO ALTERNATING CARD FORMATS ARE READ FROM SYSIN, WITH A PAIR			*15570000
00035	004100	* PROVIDING THE DATA TO ADD A STUDENT AND ALL COURSES ENROLLED.			*15580000
00036	004200	* BASED ON THE FORMAT, THE CARD READ IS MOVED TO THE APPROPRIATE			*15590000
00037	004300	* GROUP LEVEL ITEM BELOW FOR PROCESSING.			*15600000
00038	004400	* *****			*15610000
00039	004500	01 CARD-IMAGES.			15620000
00040	004600	02 CI-STUDENT-INFO.			15630000
00041	004700	03 CISI-STUDENT-ID	PIC X(07).		15640000
00042	004800	03 CISI-NAME	PIC X(22).		15650000
00043	004900	03 CISI-ADDRESS	PIC X(25).		15660000
00044	005000	03 CISI-CITY	PIC X(15).		15670000
00045	005100	03 CISI-STATE	PIC X(02).		15680000
00046	005200	03 CISI-ZIPCODE	PIC 9(05).		15690000
00047	005300	03 CISI-GENDER	PIC X(01).		15700000
00048	005400	03 CISI-MAJOR	PIC X(03).		15710000
00049	005500	02 CI-COURSE-INFO.			15720000
00050	005600	03 CICI-STUDENT-ID	PIC X(07).		15730000
00051	005700	03 CICI-COURSE-TABLE	OCCURS 8 TIMES		15740000
00052	005800		INDEXED BY CICI-COURSE-IX.		15750000
00053	005900	04 FILLER	PIC X(01).		15760000
00054	006000	04 CICI-COURSE-ID	PIC 9(06).		15770000


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00055 006100          03 FILLER                PIC X(17).                15780000
00056 006200                                               15790000
00057 006300 01 VSIO-PARAMETER-VALUES        COPY VSAMIO.          15800000
00058 C 000100* *****                                *06980000
00059 C 000200*                                               *06990000
00060 C 000300*          VV  VV  SSSSS      A    M    M  IIII    OOOOO          *07000000
00061 C 000400*          VV  VV SS   SS   AAA  MM   MM   II   OO   OO          *07010000
00062 C 000500*          VV  VV SS           AA AA  MMM MMM  II   OO   OO          *07020000
00063 C 000600*          VV  VV  SSSSS  AA   AA  MMMMMMM  II   OO   OO          *07030000
00064 C 000700*          VV  VV           SS AA   AA  MM M MM  II   OO   OO          *07040000
00065 C 000800*          VV VV  SS   SS  AAAAAA  MM   MM  II   OO   OO          *07050000
00066 C 000900*          VVV  SS   SS  AA   AA  MM   MM  II   OO   OO          *07060000
00067 C 001000*          V    SSSSS  AA   AA  MM   MM  IIII    OOOOO          *07070000
00068 C 001100*                                               *07080000
00069 C 001200* *****                                *07090000
00070 C 001300*                                               *07100000
00071 C 001400* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *07110000
00072 C 001500* ACCESS ROUTINE.                                *07120000
00073 C 001600*                                               *07130000
00074 C 001700* THE VSIO-PARAMETER-VALUES SUPPLY THE VALUES USED TO MOVE INTO *07140000
00075 C 001800* PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET *07150000
00076 C 001900* AND TO PROVIDE COMMANDS TO DRIVE THE ROUTINE.          *07160000
00077 C 002000* *****                                *07170000
00078 C 002100 01 VSIO-PARAMETER-VALUES.          07180000
00079 C 002200 02 VSIO-OPEN                PIC X(08) VALUE 'OPEN  ' . 07190000
00080 C 002300 02 VSIO-CLOSE                PIC X(08) VALUE 'CLOSE  ' . 07200000
00081 C 002400 02 VSIO-READ                 PIC X(08) VALUE 'READ   ' . 07210000
00082 C 002500 02 VSIO-WRITE                PIC X(08) VALUE 'WRITE  ' . 07220000
00083 C 002600 02 VSIO-REWRITE              PIC X(08) VALUE 'REWRITE' . 07230000
00084 C 002700 02 VSIO-DELETE               PIC X(08) VALUE 'DELETE ' . 07240000
00085 C 002800 02 VSIO-START-KEY-EQUAL      PIC X(08) VALUE 'STARTEQ' . 07250000
00086 C 002900 02 VSIO-START-KEY-NOTLESS   PIC X(08) VALUE 'STARTGE ' . 07260000
00087 C 003000 02 VSIO-KSDS                 PIC X(04) VALUE 'KSDS' . 07270000
00088 C 003100 02 VSIO-ESDS                 PIC X(04) VALUE 'ESDS' . 07280000
00089 C 003200 02 VSIO-RRDS                 PIC X(04) VALUE 'RRDS' . 07290000
00090 C 003300 02 VSIO-SEQUENTIAL           PIC X(10) VALUE 'SEQUENTIAL' . 07300000
00091 C 003400 02 VSIO-DIRECT               PIC X(10) VALUE 'DIRECT  ' . 07310000
00092 C 003500 02 VSIO-DYNAMIC              PIC X(10) VALUE 'DYNAMIC  ' . 07320000
00093 C 003600 02 VSIO-INPUT                PIC X(06) VALUE 'INPUT  ' . 07330000
00094 C 003700 02 VSIO-OUTPUT               PIC X(06) VALUE 'OUTPUT ' . 07340000
00095 C 003800 02 VSIO-INPUT-OUTPUT         PIC X(06) VALUE 'UPDATE ' . 07350000
00096 C 003900                                               07360000
00097 C 004000* *****                                *07370000
00098 C 004100* THE VSIO-PARAMETER-BLOCK IS THE COMMUNICATION INTERFACE TO *07380000
00099 C 004200* THE ROUTINE.                                *07390000
00100 C 004300* *****                                *07400000
00101 C 004400 01 VSIO-PARAMETER-BLOCK.          07410000
00102 C 004500 02 VSIO-COMMAND                PIC X(08).                07420000
00103 C 004600 02 VSIO-RETURN-CODE          PIC S9(04) COMP.          07430000
00104 C 004700 88 VSIO-SUCCESS                VALUE +0.                07440000
00105 C 004800 88 VSIO-LOGIC-ERROR            VALUE +8.                07450000
00106 C 004900 88 VSIO-END-OF-FILE            VALUE +9999.            07460000
00107 C 005000 88 VSIO-PARAMETER-ERROR        VALUE +20 THRU +28.     07470000
00108 C 005100 88 VSIO-COMMAND-UNKNOWN        VALUE +20.                07480000
00109 C 005200 88 VSIO-DATASET-ALREADY-OPEN  VALUE +21.                07490000
00110 C 005300 88 VSIO-DATASET-NOT-OPEN      VALUE +22.                07500000
00111 C 005400 88 VSIO-ORGANIZATION-KEYWORD  VALUE +23.                07510000

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00112 C 005500      88 VSIO-ACCESS-KEYWORD          VALUE +24.          07520000
00113 C 005600      88 VSIO-ACCESS-UNSUPPORTED          VALUE +25.          07530000
00114 C 005700      88 VSIO-MODE-KEYWORD                VALUE +26.          07540000
00115 C 005800      88 VSIO-MODE-UNSUPPORTED            VALUE +27.          07550000
00116 C 005900      88 VSIO-DDNAME-BLANK                VALUE +28.          07560000
00117 C 006000      02 VSIO-VSAM-RETURN-CODE          PIC S9(04)          COMP.              07570000
00118 C 006100      02 VSIO-VSAM-FUNCTION-CODE          PIC S9(04)          COMP.              07580000
00119 C 006200      02 VSIO-VSAM-FEEDBACK-CODE          PIC S9(04)          COMP.              07590000
00120 C 006300      88 VSIO-DUPLICATE-RECORD            VALUE +8.           07600000
00121 C 006400      88 VSIO-SEQUENCE-ERROR              VALUE +12.          07610000
00122 C 006500      88 VSIO-RECORD-NOT-FOUND            VALUE +16.          07620000
00123 C 006600      88 VSIO-NO-MORE-SPACE                VALUE +28.          07630000
00124 C 006700      88 VSIO-READ-WITHOUT-START          VALUE +88.          07640000
00125 C 006800* ***** *07650000
00126 C 006900*                END OF VSAMIO COPY BOOK *07660000
00127 C 007000* ***** *07670000
00128   006400 01  STUDENT-MASTER-FILE          COPY VSAMIOFB.    15810000
00129 C 000100* ***** *00000100
00130 C 000200* ***** *00000200
00131 C 000300* VV  VV  SSSSS  A  M  M  IIII  OOOO  FFFFFFFF  BBBBBB *00000300
00132 C 000400* VV  VV SS  SS  AAA  MM  MM  II  OO  OO  FF  BB  BB *00000400
00133 C 000500* VV  VV SS  AA  AA  MMM  MMM  II  OO  OO  FF  BB  BB *00000500
00134 C 000600* VV  VV  SSSSS  AA  AA  MMMMMM  II  OO  OO  FFFFF  BBBBBB *00000600
00135 C 000700* VV  VV  SS  AA  AA  MM  M  MM  II  OO  OO  FF  BB  BB *00000700
00136 C 000800* VV VV  SS  SS  AAAAAA  MM  MM  II  OO  OO  FF  BB  BB *00000800
00137 C 000900* VVV  SS  SS  AA  AA  MM  MM  II  OO  OO  FF  BB  BB *00000900
00138 C 001000* V  SSSSS  AA  AA  MM  MM  IIII  OOOO  FF  BBBBBB *00001000
00139 C 001100* ***** *00001100
00140 C 001200* ***** *00001200
00141 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *00001300
00142 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS *00001400
00143 C 001500* FOR A SINGLE VSAM DATASET. *00001500
00144 C 001600* ***** *00001600
00145 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE *00001700
00146 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE *00001800
00147 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED *00001900
00148 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT *00002000
00149 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED. *00002100
00150 C 002200* ***** *00002200
00151 C 002300 01  STUDENT-MASTER-FILE.          00002300
00152 C 002400      02 VSIO-DDNAME          PIC X(08)  VALUE SPACES.    00002400
00153 C 002500      02 VSIO-ORGANIZATION          PIC X(04)  VALUE SPACES.    00002500
00154 C 002600      02 VSIO-ACCESS          PIC X(10)  VALUE SPACES.    00002600
00155 C 002700      02 VSIO-MODE          PIC X(06)  VALUE SPACES.    00002700
00156 C 002800      02 VSIO-RECORD-LENGTH          PIC S9(04)  COMP VALUE +0.    00002800
00157 C 002900      02 VSIO-KEY-ARGUMENT.          00002900
00158 C 003000      03 VSIO-KEY-POSITION          PIC S9(04)  COMP VALUE +0.    00003000
00159 C 003100      03 VSIO-KEY-LENGTH          PIC S9(04)  COMP VALUE +0.    00003100
00160 C 003200      02 VSIO-RELATIVE-RECORD          REDEFINES VSIO-KEY-ARGUMENT 00003200
00161 C 003300          PIC S9(08)  COMP.          00003300
00162 C 003400      02 FILLER          PIC X(01)  VALUE 'C'.    00003400
00163 C 003500      88 VSIO-FILE-OPEN          VALUE 'O'.    00003500
00164 C 003600      88 VSIO-FILE-CLOSED          VALUE 'C'.    00003600
00165 C 003700      02 FILLER          PIC X(161).    00003700
00166 C 003800* ***** *00003800
00167 C 003900*                END OF VSAMIOFB COPY BOOK *00003900
00168 C 004000* ***** *00004000

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00169	006500*	*****			*15820000
00170	006600*	SINCE THE STUDENT DATASET CONTAINS VARIABLE LENGTH RECORDS,			*15830000
00171	006700*	TWO FORMATS ARE DEFINED BELOW, ONE FOR THE 83 BYTE HEADER			*15840000
00172	006800*	RECORD AND ONE FOR THE 17 BYTE TRAILER SEGMENTS.			*15850000
00173	006900*	*****			*15860000
00174	007000	01	STUDENT-INFO-RECORD.		15870000
00175	007100	02	SIR-STUDENT-ID	PIC X(07).	15880000
00176	007200	02	SIR-KEY-ID	PIC 9(03).	15890000
00177	007300	02	SIR-NAME	PIC X(22).	15900000
00178	007400	02	SIR-ADDRESS	PIC X(25).	15910000
00179	007500	02	SIR-CITY	PIC X(15).	15920000
00180	007600	02	SIR-STATE	PIC X(02).	15930000
00181	007700	02	SIR-ZIPCODE	PIC 9(05).	15940000
00182	007800	02	SIR-GENDER	PIC X(01).	15950000
00183	007900	02	SIR-MAJOR	PIC X(03).	15960000
00184	008000	01	COURSE-INFO-RECORD.		15970000
00185	008100	02	CIR-STUDENT-ID	PIC X(07).	15980000
00186	008200	02	CIR-KEY-ID	PIC 9(03).	15990000
00187	008300	02	CIR-COURSE-ID	PIC 9(06).	16000000
00188	008400	02	CIR-GRADE	PIC S9(3)V99 COMP-3.	16010000
00189	008500				16020000
00190	008600		PROCEDURE DIVISION.		16030000
00191	008700				16040000
00192	008800		000-INITIATE.		16050000
00193	008900				16060000
00194	009000		DISPLAY 'KSDSLVAR: LOAD VARIABLE LENGTH KSDS'.		16070000
00195	009100		DISPLAY '-----'.		16080000
00196	009200		DISPLAY ' '.		16090000
00197	009300				16100000
00198	009400		OPEN INPUT RECORD-IMAGES.		16110000
00199	009500				16120000
00200	009600		MOVE 'STMASTR' TO VSIO-DDNAME.		16130000
00201	009700		MOVE VSIO-KSDS TO VSIO-ORGANIZATION.		16140000
00202	009800		MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS.		16150000
00203	009900		MOVE VSIO-OUTPUT TO VSIO-MODE.		16160000
00204	010000		MOVE +83 TO VSIO-RECORD-LENGTH.		16170000
00205	010100		MOVE +0 TO VSIO-KEY-POSITION.		16180000
00206	010200		MOVE +10 TO VSIO-KEY-LENGTH.		16190000
00207	010300		MOVE VSIO-OPEN TO VSIO-COMMAND.		16200000
00208	010400		CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK,		16210000
00209	010500		STUDENT-MASTER-FILE,		16220000
00210	010600		STUDENT-INFO-RECORD.		16230000
00211	010700*		END-CALL.		16240000
00212	010800		IF NOT VSIO-SUCCESS		16250000
00213	010900		PERFORM 500-DISPLAY-UNKNOWN-ERROR THRU 509-EXIT		16260000
00214	011000		STOP RUN.		16270000
00215	011100*		END-IF.		16280000
00216	011200				16290000
00217	011300		010-PROCESS.		16300000
00218	011400				16310000
00219	011500		PERFORM 110-PROCESS-DATA		16320000
00220	011600		THRU 119-EXIT		16330000
00221	011700		UNTIL END-OF-FILE		16340000
00222	011800		OR (NOT VSIO-SUCCESS).		16350000
00223	011900*		END-PERFORM.		16360000
00224	012000				16370000
00225	012100		020-TERMINATE.		16380000

00226	012200		16390000
00227	012300	CLOSE RECORD-IMAGES.	16400000
00228	012400		16410000
00229	012500	MOVE VSIO-CLOSE TO VSIO-COMMAND.	16420000
00230	012600	CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK,	16430000
00231	012700	STUDENT-MASTER-FILE,	16440000
00232	012800	STUDENT-INFO-RECORD.	16450000
00233	012900*	END-CALL.	16460000
00234	013000	IF NOT VSIO-SUCCESS	16470000
00235	013100	PERFORM 500-DISPLAY-UNKNOWN-ERROR THRU 509-EXIT.	16480000
00236	013200*	END-IF.	16490000
00237	013300		16500000
00238	013400	STOP RUN.	16510000
00239	013500		16520000
00240	013600	110-PROCESS-DATA.	16530000
00241	013700	READ RECORD-IMAGES	16540000
00242	013800	AT END	16550000
00243	013900	MOVE 'Y' TO END-OF-FILE-SWITCH.	16560000
00244	014000*	END-READ.	16570000
00245	014100		16580000
00246	014200	IF NOT END-OF-FILE	16590000
00247	014300	PERFORM 120-ADD-RECORD THRU 129-EXIT.	16600000
00248	014400*	END-IF.	16610000
00249	014500		16620000
00250	014600	119-EXIT.	16630000
00251	014700	EXIT.	16640000
00252	014800		16650000
00253	014900	120-ADD-RECORD.	16660000
00254	015000		16670000
00255	015100	IF RI-COLUMN-8 NOT EQUAL SPACE	16680000
00256	015200	MOVE RECORD-IMAGE TO CI-STUDENT-INFO	16690000
00257	015300	PERFORM 130-ADD-STUDENT THRU 139-EXIT	16700000
00258	015400	ELSE	16710000
00259	015500	MOVE RECORD-IMAGE TO CI-COURSE-INFO	16720000
00260	015600	PERFORM 140-ADD-COURSES THRU 149-EXIT.	16730000
00261	015700*	END-IF.	16740000
00262	015800		16750000
00263	015900	129-EXIT.	16760000
00264	016000	EXIT.	16770000
00265	016100		16780000
00266	016200	130-ADD-STUDENT.	16790000
00267	016300		16800000
00268	016400	MOVE CISI-STUDENT-ID TO SIR-STUDENT-ID.	16810000
00269	016500	MOVE ZERO TO SIR-KEY-ID.	16820000
00270	016600	MOVE CISI-NAME TO SIR-NAME.	16830000
00271	016700	MOVE CISI-ADDRESS TO SIR-ADDRESS.	16840000
00272	016800	MOVE CISI-CITY TO SIR-CITY.	16850000
00273	016900	MOVE CISI-STATE TO SIR-STATE.	16860000
00274	017000	MOVE CISI-ZIPCODE TO SIR-ZIPCODE.	16870000
00275	017100	MOVE CISI-GENDER TO SIR-GENDER.	16880000
00276	017200	MOVE CISI-MAJOR TO SIR-MAJOR.	16890000
00277	017300		16900000
00278	017400	MOVE +83 TO VSIO-RECORD-LENGTH.	16910000
00279	017500	MOVE VSIO-WRITE TO VSIO-COMMAND.	16920000
00280	017600	CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK,	16930000
00281	017700	STUDENT-MASTER-FILE,	16940000
00282	017800	STUDENT-INFO-RECORD.	16950000

00283	017900*	END-CALL.	16960000
00284	018000		16970000
00285	018100	IF VSIO-SUCCESS	16980000
00286	018200	GO TO 139-EXIT.	16990000
00287	018300*	END-IF.	17000000
00288	018400		17010000
00289	018500	IF VSIO-LOGIC-ERROR	17020000
00290	018600	AND VSIO-NO-MORE-SPACE	17030000
00291	018700	DISPLAY 'INSUFFICIENT SPACE DEFINED IN '	17040000
00292	018800	'CLUSTER TO CONTAIN ALL RECORDS - '	17050000
00293	018900	'LOADING TERMINATED'	17060000
00294	019000	GO TO 139-EXIT.	17070000
00295	019100*	END-IF.	17080000
00296	019200		17090000
00297	019300	IF VSIO-LOGIC-ERROR	17100000
00298	019400	AND VSIO-SEQUENCE-ERROR	17110000
00299	019500	DISPLAY 'KEY SEQUENCE ERROR DURING LOAD'	17120000
00300	019600	DISPLAY 'RECORD BYPASSED: (STUDENT) '	17130000
00301	019700	SIR-STUDENT-ID '-' SIR-KEY-ID ' ' SIR-NAME	17140000
00302	019800	MOVE +0 TO VSIO-RETURN-CODE	17150000
00303	019900	GO TO 139-EXIT.	17160000
00304	020000*	END-IF.	17170000
00305	020100		17180000
00306	020200	PERFORM 500-DISPLAY-UNKNOWN-ERROR THRU 509-EXIT.	17190000
00307	020300		17200000
00308	020400	139-EXIT.	17210000
00309	020500	EXIT.	17220000
00310	020600		17230000
00311	020700	140-ADD-COURSES.	17240000
00312	020800		17250000
00313	020900	MOVE ZERO TO CIR-KEY-ID.	17260000
00314	021000	PERFORM 150-ADD-A-COURSE THRU 159-EXIT	17270000
00315	021100	VARYING CICI-COURSE-IX	17280000
00316	021200	FROM +1 BY +1	17290000
00317	021300	UNTIL CICI-COURSE-IX > +8.	17300000
00318	021400*	END-PERFORM.	17310000
00319	021500		17320000
00320	021600	149-EXIT.	17330000
00321	021700	EXIT.	17340000
00322	021800		17350000
00323	021900	150-ADD-A-COURSE.	17360000
00324	022000		17370000
00325	022100	IF CICI-COURSE-ID (CICI-COURSE-IX) EQUAL ZEROS	17380000
00326	022200	GO TO 159-EXIT.	17390000
00327	022300*	END-IF.	17400000
00328	022400		17410000
00329	022500	MOVE CICI-STUDENT-ID TO CIR-STUDENT-ID.	17420000
00330	022600	ADD 1 TO CIR-KEY-ID.	17430000
00331	022700	MOVE CICI-COURSE-ID (CICI-COURSE-IX) TO CIR-COURSE-ID.	17440000
00332	022800	MOVE +0 TO CIR-GRADE.	17450000
00333	022900		17460000
00334	023000	MOVE +19 TO VSIO-RECORD-LENGTH.	17470000
00335	023100	MOVE VSIO-WRITE TO VSIO-COMMAND.	17480000
00336	023200	CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK,	17490000
00337	023300	STUDENT-MASTER-FILE,	17500000
00338	023400	COURSE-INFO-RECORD.	17510000
00339	023500*	END-CALL.	17520000

00340	023600		17530000
00341	023700	IF VSIO-SUCCESS	17540000
00342	023800	GO TO 159-EXIT.	17550000
00343	023900*	END-IF.	17560000
00344	024000		17570000
00345	024100	IF VSIO-LOGIC-ERROR	17580000
00346	024200	AND VSIO-NO-MORE-SPACE	17590000
00347	024300	DISPLAY 'INSUFFICIENT SPACE DEFINED IN '	17600000
00348	024400	'CLUSTER TO CONTAIN ALL RECORDS - '	17610000
00349	024500	'LOADING TERMINATED'	17620000
00350	024600	GO TO 159-EXIT.	17630000
00351	024700*	END-IF.	17640000
00352	024800		17650000
00353	024900	IF VSIO-LOGIC-ERROR	17660000
00354	025000	AND VSIO-SEQUENCE-ERROR	17670000
00355	025100	DISPLAY 'KEY SEQUENCE ERROR DURING LOAD'	17680000
00356	025200	DISPLAY 'RECORD BYPASSED: (COURSE) '	17690000
00357	025300	CIR-STUDENT-ID '-' CIR-KEY-ID '-' CIR-COURSE-ID	17700000
00358	025400	MOVE +0 TO VSIO-RETURN-CODE	17710000
00359	025500	GO TO 159-EXIT.	17720000
00360	025600*	END-IF.	17730000
00361	025700		17740000
00362	025800	PERFORM 500-DISPLAY-UNKNOWN-ERROR THRU 509-EXIT.	17750000
00363	025900		17760000
00364	026000	159-EXIT.	17770000
00365	026100	EXIT.	17780000
00366	026200		17790000
00367	026300	500-DISPLAY-UNKNOWN-ERROR.	17800000
00368	026400		17810000
00369	026500	DISPLAY 'UNEXPECTED VSAMIO ERROR OCCURRED DURING '	17820000
00370	026600	VSIO-COMMAND.	17830000
00371	026700	EXHIBIT NAMED VSIO-RETURN-CODE.	17840000
00372	026800	EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,	17850000
00373	026900	VSIO-VSAM-FUNCTION-CODE,	17860000
00374	027000	VSIO-VSAM-FEEDBACK-CODE.	17870000
00375	027100		17880000
00376	027200	509-EXIT.	17890000
00377	027300	EXIT.	17900000

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=1-322	FD	RECORD-IMAGES	DCB=01		DNM=1-322		QSAM				F
DNM=1-348	01	RECORD-IMAGE	BL=1	000	DNM=1-348	DS 0CL80	GROUP				
DNM=1-373	02	FILLER	BL=1	000	DNM=1-373	DS 7C	DISP				
DNM=1-392	02	RI-COLUMN-8	BL=1	007	DNM=1-392	DS 1C	DISP				
DNM=1-413	02	FILLER	BL=1	008	DNM=1-413	DS 72C	DISP				
DNM=1-432	77	END-OF-FILE-SWITCH	BL=2	000	DNM=1-432	DS 1C	DISP				
DNM=1-463	88	END-OF-FILE			DNM=1-463						
DNM=1-485	01	CARD-IMAGES	BL=2	008	DNM=1-485	DS 0CL160	GROUP				
DNM=2-000	02	CI-STUDENT-INFO	BL=2	008	DNM=2-000	DS 0CL80	GROUP				
DNM=2-028	03	CISI-STUDENT-ID	BL=2	008	DNM=2-028	DS 7C	DISP				
DNM=2-053	03	CISI-NAME	BL=2	00F	DNM=2-053	DS 22C	DISP				
DNM=2-072	03	CISI-ADDRESS	BL=2	025	DNM=2-072	DS 25C	DISP				
DNM=2-094	03	CISI-CITY	BL=2	03E	DNM=2-094	DS 15C	DISP				
DNM=2-113	03	CISI-STATE	BL=2	04D	DNM=2-113	DS 2C	DISP				
DNM=2-133	03	CISI-ZIPCODE	BL=2	04F	DNM=2-133	DS 5C	DISP-NM				
DNM=2-155	03	CISI-GENDER	BL=2	054	DNM=2-155	DS 1C	DISP				
DNM=2-176	03	CISI-MAJOR	BL=2	055	DNM=2-176	DS 3C	DISP				
DNM=2-196	02	CI-COURSE-INFO	BL=2	058	DNM=2-196	DS 0CL80	GROUP				
DNM=2-223	03	CICI-STUDENT-ID	BL=2	058	DNM=2-223	DS 7C	DISP				
DNM=2-251		CICI-COURSE-IX			DNM=2-251		INDEX-NM				
DNM=2-272	03	CICI-COURSE-TABLE	BL=2	05F	DNM=2-272	DS 0CL7	GROUP		O		
DNM=2-302	04	FILLER	BL=2	05F	DNM=2-302	DS 1C	DISP				
DNM=2-324	04	CICI-COURSE-ID	BL=2	060	DNM=2-324	DS 6C	DISP-NM				
DNM=2-351	03	FILLER	BL=2	097	DNM=2-351	DS 17C	DISP				
DNM=2-370	01	VSIO-PARAMETER-VALUES	BL=2	0A8	DNM=2-370	DS 0CL124	GROUP				
DNM=2-404	02	VSIO-OPEN	BL=2	0A8	DNM=2-404	DS 8C	DISP				
DNM=2-423	02	VSIO-CLOSE	BL=2	0B0	DNM=2-423	DS 8C	DISP				
DNM=2-443	02	VSIO-READ	BL=2	0B8	DNM=2-443	DS 8C	DISP				
DNM=2-465	02	VSIO-WRITE	BL=2	0C0	DNM=2-465	DS 8C	DISP				
DNM=2-485	02	VSIO-REWRITE	BL=2	0C8	DNM=2-485	DS 8C	DISP				
DNM=3-000	02	VSIO-DELETE	BL=2	0D0	DNM=3-000	DS 8C	DISP				
DNM=3-021	02	VSIO-START-KEY-EQUAL	BL=2	0D8	DNM=3-021	DS 8C	DISP				
DNM=3-051	02	VSIO-START-KEY-NOTLESS	BL=2	0E0	DNM=3-051	DS 8C	DISP				
DNM=3-083	02	VSIO-KSDS	BL=2	0E8	DNM=3-083	DS 4C	DISP				
DNM=3-102	02	VSIO-ESDS	BL=2	0EC	DNM=3-102	DS 4C	DISP				
DNM=3-121	02	VSIO-RRDS	BL=2	0F0	DNM=3-121	DS 4C	DISP				
DNM=3-140	02	VSIO-SEQUENTIAL	BL=2	0F4	DNM=3-140	DS 10C	DISP				
DNM=3-165	02	VSIO-DIRECT	BL=2	0FE	DNM=3-165	DS 10C	DISP				
DNM=3-186	02	VSIO-DYNAMIC	BL=2	108	DNM=3-186	DS 10C	DISP				
DNM=3-208	02	VSIO-INPUT	BL=2	112	DNM=3-208	DS 6C	DISP				
DNM=3-228	02	VSIO-OUTPUT	BL=2	118	DNM=3-228	DS 6C	DISP				
DNM=3-249	02	VSIO-INPUT-OUTPUT	BL=2	11E	DNM=3-249	DS 6C	DISP				
DNM=3-276	01	VSIO-PARAMETER-BLOCK	BL=2	128	DNM=3-276	DS 0CL16	GROUP				
DNM=3-309	02	VSIO-COMMAND	BL=2	128	DNM=3-309	DS 8C	DISP				
DNM=3-331	02	VSIO-RETURN-CODE	BL=2	130	DNM=3-331	DS 2C	COMP				
DNM=3-360	88	VSIO-SUCCESS			DNM=3-360						
DNM=3-385	88	VSIO-LOGIC-ERROR			DNM=3-385						
DNM=3-417	88	VSIO-END-OF-FILE			DNM=3-417						
DNM=3-448	88	VSIO-PARAMETER-ERROR			DNM=3-448						
DNM=4-000	88	VSIO-COMMAND-UNKNOWN			DNM=4-000						
DNM=4-034	88	VSIO-DATASET-ALREADY-OPEN			DNM=4-034						
DNM=4-073	88	VSIO-DATASET-NOT-OPEN			DNM=4-073						
DNM=4-108	88	VSIO-ORGANIZATION-KEYWORD			DNM=4-108						
DNM=4-147	88	VSIO-ACCESS-KEYWORD			DNM=4-147						
DNM=4-180	88	VSIO-ACCESS-UNSUPPORTED			DNM=4-180						

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=4-217	88	VSIO-MODE-KEYWORD			DNM=4-217						
DNM=4-248	88	VSIO-MODE-UNSUPPORTED			DNM=4-248						
DNM=4-283	88	VSIO-DDNAME-BLANK			DNM=4-283						
DNM=4-314	02	VSIO-VSAM-RETURN-CODE	BL=2	132	DNM=4-314	DS 2C	COMP				
DNM=4-345	02	VSIO-VSAM-FUNCTION-CODE	BL=2	134	DNM=4-345	DS 2C	COMP				
DNM=4-378	02	VSIO-VSAM-FEEDBACK-CODE	BL=2	136	DNM=4-378	DS 2C	COMP				
DNM=4-414	88	VSIO-DUPLICATE-RECORD			DNM=4-414						
DNM=4-448	88	VSIO-SEQUENCE-ERROR			DNM=4-448						
DNM=5-000	88	VSIO-RECORD-NOT-FOUND			DNM=5-000						
DNM=5-035	88	VSIO-NO-MORE-SPACE			DNM=5-035						
DNM=5-067	88	VSIO-READ-WITHOUT-START			DNM=5-067						
DNM=5-104	01	STUDENT-MASTER-FILE	BL=2	138	DNM=5-104	DS 0CL196	GROUP				
DNM=5-139	02	VSIO-DDNAME	BL=2	138	DNM=5-139	DS 8C	DISP				
DNM=5-160	02	VSIO-ORGANIZATION	BL=2	140	DNM=5-160	DS 4C	DISP				
DNM=5-187	02	VSIO-ACCESS	BL=2	144	DNM=5-187	DS 10C	DISP				
DNM=5-211	02	VSIO-MODE	BL=2	14E	DNM=5-211	DS 6C	DISP				
DNM=5-230	02	VSIO-RECORD-LENGTH	BL=2	154	DNM=5-230	DS 2C	COMP				
DNM=5-258	02	VSIO-KEY-ARGUMENT	BL=2	156	DNM=5-258	DS 0CL4	GROUP				
DNM=5-288	03	VSIO-KEY-POSITION	BL=2	156	DNM=5-288	DS 2C	COMP				
DNM=5-318	03	VSIO-KEY-LENGTH	BL=2	158	DNM=5-318	DS 2C	COMP				
DNM=5-343	02	VSIO-RELATIVE-RECORD	BL=2	156	DNM=5-343	DS 4C	COMP	R			
DNM=5-373	02	FILLER	BL=2	15A	DNM=5-373	DS 1C	DISP				
DNM=5-395	88	VSIO-FILE-OPEN			DNM=5-395						
DNM=5-420	88	VSIO-FILE-CLOSED			DNM=5-420						
DNM=5-447	02	FILLER	BL=2	15B	DNM=5-447	DS 161C	DISP				
DNM=5-466	01	STUDENT-INFO-RECORD	BL=2	200	DNM=5-466	DS 0CL83	GROUP				
DNM=6-000	02	SIR-STUDENT-ID	BL=2	200	DNM=6-000	DS 7C	DISP				
DNM=6-027	02	SIR-KEY-ID	BL=2	207	DNM=6-027	DS 3C	DISP-NM				
DNM=6-047	02	SIR-NAME	BL=2	20A	DNM=6-047	DS 22C	DISP				
DNM=6-065	02	SIR-ADDRESS	BL=2	220	DNM=6-065	DS 25C	DISP				
DNM=6-086	02	SIR-CITY	BL=2	239	DNM=6-086	DS 15C	DISP				
DNM=6-104	02	SIR-STATE	BL=2	248	DNM=6-104	DS 2C	DISP				
DNM=6-123	02	SIR-ZIPCODE	BL=2	24A	DNM=6-123	DS 5C	DISP-NM				
DNM=6-144	02	SIR-GENDER	BL=2	24F	DNM=6-144	DS 1C	DISP				
DNM=6-164	02	SIR-MAJOR	BL=2	250	DNM=6-164	DS 3C	DISP				
DNM=6-183	01	COURSE-INFO-RECORD	BL=2	258	DNM=6-183	DS 0CL19	GROUP				
DNM=6-217	02	CIR-STUDENT-ID	BL=2	258	DNM=6-217	DS 7C	DISP				
DNM=6-241	02	CIR-KEY-ID	BL=2	25F	DNM=6-241	DS 3C	DISP-NM				
DNM=6-261	02	CIR-COURSE-ID	BL=2	262	DNM=6-261	DS 6C	DISP-NM				
DNM=6-284	02	CIR-GRADE	BL=2	268	DNM=6-284	DS 3P	COMP-3				


```
*STATISTICS*      SOURCE RECORDS =   377      DATA DIVISION STATEMENTS =    96      PROCEDURE DIVISION STATEMENTS =    87
*OPTIONS IN EFFECT*  SIZE = 2097152  BUF = 1048576  LINECNT = 57  SPACE1, FLAGW,  SEQ,  SOURCE
*OPTIONS IN EFFECT*    DMAP, NOPMAP, NOCLIST,  SUPMAP, NOXREF,  LOAD, NODECK, APOST, NOTRUNC,  LIB, NOVERB
*OPTIONS IN EFFECT*    ZWB
```

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,XREF,LET
DEFAULT OPTION(S) USED - SIZE=(231424,55296)

CROSS REFERENCE TABLE

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
KSDSLVAR	00	FF6								
ILBODSP0*	FF8	700								
ILBOSTP0*	16F8	35								
			ILBOSTP1	170E						
VSAMIO *	1730	D0A								

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION	LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
608	ILBOSTP0	ILBOSTP0	60C	ILBODSP0	ILBODSP0
610	VSAMIO	VSAMIO	614	ILBOSTP1	ILBOSTP0

ENTRY ADDRESS 00

TOTAL LENGTH 2440

***RUN DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET

AUTHORIZATION CODE IS 0.

KSDSLVAR: LOAD VARIABLE LENGTH KSDS
