

J E S 2   J O B   L O G

13.38.50 JOB 956 \$HASP373 COBUCL5 STARTED - INIT 1 - CLASS A - SYS HMVS  
13.38.50 JOB 956 IEF403I COBUCL5 - STARTED - TIME=13.38.50  
13.38.50 JOB 956 IEFACTRT COB /IKFCBL00/00:00:00.08/00:00:00.15/00004/COBUCL5  
13.38.51 JOB 956 IEC130I SYSPUNCH DD STATEMENT MISSING  
13.38.51 JOB 956 IEC130I SYSLIB DD STATEMENT MISSING  
13.38.51 JOB 956 IEC130I SYSPUNCH DD STATEMENT MISSING  
13.38.51 JOB 956 IEFACTRT COB /IKFCBL00/00:00:00.06/00:00:00.10/00000/COBUCL5  
13.38.51 JOB 956 IEFACTRT LKED /IEWL /00:00:00.03/00:00:00.05/00000/COBUCL5  
13.38.51 JOB 956 SE 'COBUCL5 (J 956)- COBUC .COB ENDED, CODE 0004, 21.363 13:38:51',USER=(JAY01),LOGON  
13.38.51 JOB 956 SE 'COBUCL5 (J 956)- COBUCL .COB ENDED, CODE 0000, 21.363 13:38:51',USER=(JAY01),LOGON  
13.38.51 JOB 956 SE 'COBUCL5 (J 956)- COBUCL .LKED ENDED, CODE 0000, 21.363 13:38:51',USER=(JAY01),LOGON  
13.38.51 JOB 956 IEFACTRT COMPCODE/COMPCODE/00:00:00.01/00:00:00.02/00000/COBUCL5  
13.38.51 JOB 956 IEF404I COBUCL5 - ENDED - TIME=13.38.51  
13.38.51 JOB 956 \$HASP395 COBUCL5 ENDED

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

29 DEC 21 JOB EXECUTION DATE

22 CARDS READ

776 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

|    |                                                                             |           |
|----|-----------------------------------------------------------------------------|-----------|
| 1  | //COBUCL5 JOB (001), 'COBOL COMPILE', CLASS=A, MSGCLASS=X                   | JOB 956   |
|    | ***                                                                         | 00000203  |
|    | *** ***** *                                                                 | 00000303  |
|    | *** * COMPILE MAIN PROGRAM -VSLOAD- AND SUBPROGRAM -SORTNAME- AND *         | 00000403  |
|    | *** * LINK INTO LOAD MODULE -VSLOAD- *                                      | 00000503  |
|    | *** ***** *                                                                 | 00000603  |
| 2  | //COBUC EXEC COBUC, CPARM1='NODECK, LOAD, DMAP, SUPMAP, LIB'                | 00000700  |
| 3  | XXCOBUC PROC CPARM1='DECK, NOLOAD, SUPMAP',                                 | 100010000 |
|    | XX CPARM2='SIZE=2048K, BUF=1024K'                                           | 00020000  |
| 4  | XXCOB EXEC PGM=IKFCBL00, REGION=4096K,                                      | 00040000  |
|    | XX PARM='&CPARM1, &CPARM2'                                                  | 00050000  |
| 5  | XXSTEPLIB DD DSN=SYSC.LINKLIB, DISP=SHR                                     | 00051000  |
| 6  | XXSYSPRINT DD SYSOUT=*                                                      | 00060000  |
| 7  | XXSYSPUNCH DD SYSOUT=B                                                      | 00070000  |
| 8  | XXSYSUT1 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00080000  |
| 9  | XXSYSUT2 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00090000  |
| 10 | XXSYSUT3 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00100000  |
| 11 | XXSYSUT4 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00110000  |
| 12 | //COB.SYSLIB DD DISP=SHR, DSN=SYSC.VSAMIO.SOURCE                            |           |
| 13 | //COB.SYSIN DD DISP=SHR, DSN=JAY01.ISAM.COBOL(VSLOAD)                       | 00000800  |
| 14 | //COB.SYSLIN DD DSN=&LOADSET, DISP=(MOD, PASS), UNIT=SYSDA,                 | 00000900  |
|    | // SPACE=(80, (500, 100))                                                   | 00001000  |
| 15 | //COBUCL EXEC COBUCL, CPARM1='NODECK, LOAD, DMAP, SUPMAP'                   | 00001100  |
| 16 | XXCOBUCL PROC CPARM1='LOAD, SUPMAP',                                        | 100010000 |
|    | XX CPARM2='SIZE=2048K, BUF=1024K'                                           | 00020000  |
| 17 | XXCOB EXEC PGM=IKFCBL00, REGION=4096K,                                      | 00040001  |
|    | XX PARM='&CPARM1, &CPARM2'                                                  | 00050001  |
| 18 | XXSTEPLIB DD DSN=SYSC.LINKLIB, DISP=SHR                                     | 00051001  |
| 19 | XXSYSPRINT DD SYSOUT=*                                                      | 00060000  |
| 20 | XXSYSUT1 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00070000  |
| 21 | XXSYSUT2 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00080000  |
| 22 | XXSYSUT3 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00090000  |
| 23 | XXSYSUT4 DD UNIT=SYSDA, SPACE=(460, (700, 100))                             | 00100000  |
| 24 | XXSYSLIN DD DSN=&LOADSET, DISP=(MOD, PASS), UNIT=SYSDA,                     | 00110000  |
|    | XX SPACE=(80, (500, 100))                                                   | 00120000  |
| 25 | //COB.SYSIN DD DISP=SHR, DSN=JAY01.ISAM.COBOL(SORTNAME)                     | 00001200  |
| 26 | XXLKED EXEC PGM=IEWL, PARM='LIST, XREF, LET', COND=(5, LT, COB), REGION=96K | 00130000  |
| 27 | XXSYSLIN DD DSN=&LOADSET, DISP=(OLD, DELETE)                                | 00140000  |
| 28 | XX DD DDNAME=SYSIN                                                          | 00150000  |
| 29 | //LKED.SYSLMOD DD DISP=MOD, DSN=JAY01.LOAD <<- TARGET                       | 00001302  |
|    | X/SYSLMOD DD DDNAME=SYSLMOD                                                 | 00160000  |
| 30 | //LKED.SYSLIB DD                                                            | 00001400  |
|    | X/SYSLIB DD DSN=SYSC.COBLIB, DISP=SHR                                       | 00170000  |
| 31 | // DD DISP=SHR, DSN=SYSC.COBLIB                                             | 00001500  |
| 32 | // DD DISP=SHR, DSN=SYSC.LINKLIB                                            |           |
| 33 | XXSYSUT1 DD UNIT=SYSDA, SPACE=(1024, (50, 20))                              | 00180000  |
| 34 | XXSYSPRINT DD SYSOUT=*                                                      | 00190000  |
| 35 | //LKED.SYSIN DD *                                                           | 00001600  |
| 36 | //COMPCODE EXEC PGM=COMPCODE, COND=EVEN,                                    | 00001800  |
|    | // PARM='USER=(JAY01)'                                                      | 00001900  |
| 37 | //SYSPRINT DD SYSOUT=*                                                      | 00002000  |

STMT NO. MESSAGE

4 IEF653I SUBSTITUTION JCL - PARM='NODECK,LOAD,DMAP,SUPMAP,LIB,SIZE=2048K,BUF=1024K'  
 17 IEF653I SUBSTITUTION JCL - PARM='NODECK,LOAD,DMAP,SUPMAP,SIZE=2048K,BUF=1024K'

IEF236I ALLOC. FOR COBUCL5 COB COBUC

IEF237I 253 ALLOCATED TO STEPLIB

IEF237I 253 ALLOCATED TO SYS00392

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I JES2 ALLOCATED TO SYSPUNCH

IEF237I 380 ALLOCATED TO SYSUT1

IEF237I 252 ALLOCATED TO SYSUT2

IEF237I 370 ALLOCATED TO SYSUT3

IEF237I 251 ALLOCATED TO SYSUT4

IEF237I 253 ALLOCATED TO SYSLIB

IEF237I 184 ALLOCATED TO SYSIN

IEF237I 180 ALLOCATED TO SYS00394

IEF237I 251 ALLOCATED TO SYSLIN

IEF142I COBUCL5 COB COBUC - 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.JOB00956.S00102 SYSOUT

IEF285I JES2.JOB00956.S00103 SYSOUT

IEF285I SYS21363.T133850.RA000.COBUCL5.R0000001 DELETED \*-----6

IEF285I VOL SER NOS= MVS380.

IEF285I SYS21363.T133850.RA000.COBUCL5.R0000002 DELETED \*-----6

IEF285I VOL SER NOS= WORK01.

IEF285I SYS21363.T133850.RA000.COBUCL5.R0000003 DELETED \*-----9

IEF285I VOL SER NOS= MVS370.

IEF285I SYS21363.T133850.RA000.COBUCL5.R0000004 DELETED \*-----8

IEF285I VOL SER NOS= WORK00.

IEF285I SYSC.VSAMIO.SOURCE KEPT \*-----6

IEF285I VOL SER NOS= SYSCPK.

IEF285I JAY01.ISAM.COBOL KEPT \*-----2

IEF285I VOL SER NOS= MVS381.

IEF285I UCPUB000 KEPT \*-----0

IEF285I VOL SER NOS= PUB000.

IEF285I SYS21363.T133850.RA000.COBUCL5.LOADSET PASSED \*-----67

IEF285I VOL SER NOS= WORK00.

IEF373I STEP /COB / START 21363.1338

IEF374I STEP /COB / STOP 21363.1338 CPU 0MIN 00.06SEC SRB 0MIN 00.02SEC VIRT 2076K SYS 232K

\*\*\*\* JOB NAME: COBUCL5 JOBCARD READ 2021/363 13:38:50 370/148 VS2 R03.8 HMVS \*\*\*\*\*

\* \* \* \* \*

\* STEP NUMBER: 1 USER CORE: 2076K START TIME: 13:38:50 CPU TIME: 00:00:00.08 ACTIVE TIME: 00:00:00.11 \*

\* STEP NAME: COB SYSTEM CORE: 232K STOP TIME: 13:38:50 SRB TIME: 00:00:00.02 ALLOC TIME: 13:38:50 \*

\* PROGRAM NAME: IKFCBL00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.15 TCB TIME: 00:00:00.06 PROGRAM LOAD: 13:38:50 \*

\* CONDITION CODE: 00004 PERFORMANCE GROUP: 004 \* \* \* \* \*

\* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT \*

\* 642 0 / 0 0 0 / 0 0 / 0 \*

\* \* \* \* \*

\* ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT \*

\* 253/D3350 0 253/D3350 0 380/D3380 6 252/D3350 6 370/D3375 9 251/D3350 8 \*

\* 253/D3350 6 184/D3380 2 180/D3380 0 251/D3350 67 \*

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IEF236I ALLOC. FOR COBUCL5 COB COBUCL

IEF237I 253 ALLOCATED TO STEPLIB

IEF237I 253 ALLOCATED TO SYS00396

IEF237I JES2 ALLOCATED TO SYSPRINT

IEF237I 370 ALLOCATED TO SYSUT1

IEF237I 380 ALLOCATED TO SYSUT2

IEF237I 252 ALLOCATED TO SYSUT3  
IEF237I 252 ALLOCATED TO SYSUT4  
IEF237I 251 ALLOCATED TO SYSLIN  
IEF237I 184 ALLOCATED TO SYSIN  
IEF237I 180 ALLOCATED TO SYS00398  
IEC130I SYSPUNCH DD STATEMENT MISSING  
IEC130I SYSLIB DD STATEMENT MISSING  
IEC130I SYSPUNCH DD STATEMENT MISSING  
IEF142I COBUCL5 COB COBUCL - STEP WAS EXECUTED - COND CODE 0000  
IEF285I SYSC.LINKLIB KEPT \*-----0  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I UCSYSCPK KEPT \*-----0  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I JES2.JOB00956.S00104 SYSOUT  
IEF285I SYS21363.T133850.RA000.COBUCL5.R0000005 DELETED \*-----6  
IEF285I VOL SER NOS= MVS370.  
IEF285I SYS21363.T133850.RA000.COBUCL5.R0000006 DELETED \*-----6  
IEF285I VOL SER NOS= MVS380.  
IEF285I SYS21363.T133850.RA000.COBUCL5.R0000007 DELETED \*-----9  
IEF285I VOL SER NOS= WORK01.  
IEF285I SYS21363.T133850.RA000.COBUCL5.R0000008 DELETED \*-----3  
IEF285I VOL SER NOS= WORK01.  
IEF285I SYS21363.T133850.RA000.COBUCL5.LOADSET PASSED \*-----29  
IEF285I VOL SER NOS= WORK00.  
IEF285I JAY01.ISAM.COBOL KEPT \*-----2  
IEF285I VOL SER NOS= MVS381.  
IEF285I UCPUB000 KEPT \*-----0  
IEF285I VOL SER NOS= PUB000.  
IEF373I STEP /COB / START 21363.1338  
IEF374I STEP /COB / STOP 21363.1338 CPU 0MIN 00.04SEC SRB 0MIN 00.02SEC VIRT 2076K SYS 236K  
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\*  
\* STEP NUMBER: 2 USER CORE: 2076K START TIME: 13:38:50 CPU TIME: 00:00:00.06 ACTIVE TIME: 00:00:00.06 \*  
\* STEP NAME: COB SYSTEM CORE: 236K STOP TIME: 13:38:51 SRB TIME: 00:00:00.02 ALLOC TIME: 13:38:50 \*  
\* PROGRAM NAME: IKFCBL00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.10 TCB TIME: 00:00:00.04 PROGRAM LOAD: 13:38:51 \*  
\* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 \*  
\* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT \*  
\* 323 0 / 0 0 0 / 0 0 / 0 \*  
\*  
\* ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT \*  
\* 253/D3350 0 253/D3350 0 370/D3375 6 380/D3380 6 252/D3350 9 252/D3350 3 \*  
\* 251/D3350 29 184/D3380 2 180/D3380 0 \*  
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IEF236I ALLOC. FOR COBUCL5 LKED COBUCL  
IEF237I 251 ALLOCATED TO SYSLIN  
IEF237I JES2 ALLOCATED TO  
IEF237I 180 ALLOCATED TO SYSLMOD  
IEF237I 180 ALLOCATED TO SYS00400  
IEF237I 253 ALLOCATED TO SYSLIB  
IEF237I 253 ALLOCATED TO  
IEF237I 253 ALLOCATED TO  
IEF237I 253 ALLOCATED TO SYS00402  
IEF237I 380 ALLOCATED TO SYSUT1  
IEF237I JES2 ALLOCATED TO SYSPRINT  
IEF142I COBUCL5 LKED COBUCL - STEP WAS EXECUTED - COND CODE 0000  
IEF285I SYS21363.T133850.RA000.COBUCL5.LOADSET DELETED \*-----97  
IEF285I VOL SER NOS= WORK00.  
IEF285I JES2.JOB00956.SI0101 SYSIN  
IEF285I JAY01.LOAD KEPT \*-----13  
IEF285I VOL SER NOS= PUB000.  
IEF285I UCPUB000 KEPT \*-----0

IEF285I VOL SER NOS= PUB000.  
IEF285I SYSC.COBLIB KEPT \*-----28  
IEF285I VOL SER NOS= SYSCPK.  
IEF285I SYSC.COBLIB KEPT \*-----0  
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 SYS21363.T133850.RA000.COBUC15.R0000009 DELETED \*-----0  
IEF285I VOL SER NOS= MVS380.  
IEF285I JES2.JOB00956.S00105 SYSOUT  
IEF373I STEP /LKED / START 21363.1338  
IEF374I STEP /LKED / STOP 21363.1338 CPU 0MIN 00.02SEC SRB 0MIN 00.01SEC VIRT 96K SYS 192K  
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\*  
\* STEP NUMBER: 3 USER CORE: 96K START TIME: 13:38:51 CPU TIME: 00:00:00.03 ACTIVE TIME: 00:00:00.03 \*  
\* STEP NAME: LKED SYSTEM CORE: 192K STOP TIME: 13:38:51 SRB TIME: 00:00:00.01 ALLOC TIME: 13:38:51 \*  
\* PROGRAM NAME: IEWL REGION SIZE: 96K ELAPSED TIME: 00:00:00.05 TCB TIME: 00:00:00.02 PROGRAM LOAD: 13:38:51 \*  
\* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 \*  
\* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT \*  
\* 725 0 / 0 0 0 / 0 0 / 0 \*  
\*  
\* ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT \*  
\* 251/D3350 97 180/D3380 13 180/D3380 0 253/D3350 28 253/D3350 0 253/D3350 0 \*  
\* 253/D3350 0 380/D3380 0 \*  
\*\*\*\*\*  
IEF236I ALLOC. FOR COBUC15 COMPCODE  
IEF237I JES2 ALLOCATED TO SYSPRINT  
IEF142I COBUC15 COMPCODE - STEP WAS EXECUTED - COND CODE 0000  
IEF285I JES2.JOB00956.S00106 SYSOUT  
IEF373I STEP /COMPCODE/ START 21363.1338  
IEF374I STEP /COMPCODE/ STOP 21363.1338 CPU 0MIN 00.01SEC SRB 0MIN 00.00SEC VIRT 16K SYS 184K  
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\*  
\* STEP NUMBER: 4 USER CORE: 16K START TIME: 13:38:51 CPU TIME: 00:00:00.01 ACTIVE TIME: 00:00:00.02 \*  
\* STEP NAME: COMPCODE SYSTEM CORE: 184K STOP TIME: 13:38:51 SRB TIME: 00:00:00.00 ALLOC TIME: 13:38:51 \*  
\* PROGRAM NAME: COMPCODE REGION SIZE: 512K ELAPSED TIME: 00:00:00.02 TCB TIME: 00:00:00.01 PROGRAM LOAD: 13:38:51 \*  
\* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 \*  
\* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT \*  
\* 22 0 / 0 0 0 / 0 0 / 0 \*  
\*  
\* ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT ADDR/UNIT I/O COUNT \*  
\*\*\*\*\*  
IEF375I JOB /COBUC15 / START 21363.1338  
IEF376I JOB /COBUC15 / STOP 21363.1338 CPU 0MIN 00.13SEC SRB 0MIN 00.05SEC

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00001 000100 IDENTIFICATION DIVISION.
00002 000200 PROGRAM-ID. VSLOAD.
00003 000300 AUTHOR. JAY MOSELEY.
00004 000400 DATE-WRITTEN. DECEMBER, 2021.
00005 000500 DATE-COMPILED. DEC 29, 202.
00006 000600 REMARKS. READS DATA RECORDS FROM SEQUENTIAL DATASET (TAPE) AND LOADS
00007 000700          VSAM DATASET.
00008 000800*
00009 000900 ENVIRONMENT DIVISION.
00010 001000 CONFIGURATION SECTION.
00011 001100 SOURCE-COMPUTER. IBM-370.
00012 001200 OBJECT-COMPUTER. IBM-370.
00013 001300 INPUT-OUTPUT SECTION.
00014 001400 FILE-CONTROL.
00015 001500*
00016 001600     SELECT SEQUENTIAL-FILE
00017 001700     ASSIGN TO UT-S-SYSUT1.
00018 001800*
00019 001900 DATA DIVISION.
00020 002000 FILE SECTION.
00021 002100*
00022 002200 FD  SEQUENTIAL-FILE
00023 002300     LABEL RECORDS ARE STANDARD
00024 002400     BLOCK CONTAINS 0 RECORDS
00025 002500     DATA RECORD IS SEQUENTIAL-RECD.
00026 002600 01  SEQUENTIAL-RECD.
00027 002700     02  SR-ID                      PIC 9(7).
00028 002800     02  FILLER                     PIC X.
00029 002900     02  SR-FIRST-NAME              PIC X(15).
00030 003000     02  FILLER                     PIC X.
00031 003100     02  SR-INITIAL                 PIC X.
00032 003200     02  FILLER                     PIC X.
00033 003300     02  SR-LAST-NAME               PIC X(20).
00034 003400     02  FILLER                     PIC X.
00035 003500     02  SR-STREET                  PIC X(35).
00036 003600     02  FILLER                     PIC X.
00037 003700     02  SR-CITY-STATE-ZIP          PIC X(35).
00038 003800     02  FILLER                     PIC X.
00039 003900     02  SR-GENDER-CODE             PIC X.
00040 004000     02  FILLER                     PIC X.
00041 004100     02  SR-TELEPHONE               PIC X(10).
00042 004200     02  FILLER                     PIC X.
00043 004300     02  SR-DATE-1                  PIC X(8).
00044 004400     02  FILLER                     PIC X.
00045 004500     02  SR-DATE-2                  PIC X(8).
00046 004600     02  FILLER                     PIC X.
00047 004700     02  SR-DATE-3                  PIC X(8).
00048 004800     02  FILLER                     PIC X(2).
00049 004900*
00050 005000 WORKING-STORAGE SECTION.
00051 005100 01  SEQUENTIAL-FILE-END-SWITCH  PIC X VALUE 'N'.
00052 005200     88  SEQUENTIAL-FILE-END      VALUE 'Y'.
00053 005300 01  RECORD-COUNTERS             USAGE IS COMP-3.
00054 005400     02  INPUT-RECORD-COUNT        PIC S9(5) VALUE +0.

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00055 005500 02 OUTPUT-RECORD-COUNT PIC S9(5) VALUE +0.
00056 005600 01 COUNTER-EDIT PIC ZZ,ZZ9.
00057 005700*
00058 005800 01 VSIO-PARAMETER-VALUES COPY VSAMIO.
00059 C 000100* ***** *06980000
00060 C 000200* *06990000
00061 C 000300* VV VV SSSSS A M M IIII 00000 *07000000
00062 C 000400* VV VV SS SS AAA MM MM II 00 00 *07010000
00063 C 000500* VV VV SS AA AA MMM MMM II 00 00 *07020000
00064 C 000600* VV VV SSSSS AA AA MMMMMMMM II 00 00 *07030000
00065 C 000700* VV VV SS SS AA AA MM M MM II 00 00 *07040000
00066 C 000800* VV VV SS SS AAAAAA MM MM II 00 00 *07050000
00067 C 000900* VVV SS SS AA AA MM MM II 00 00 *07060000
00068 C 001000* V SSSSS AA AA MM MM IIII 00000 *07070000
00069 C 001100* *07080000
00070 C 001200* ***** *07090000
00071 C 001300* *07100000
00072 C 001400* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *07110000
00073 C 001500* ACCESS ROUTINE. *07120000
00074 C 001600* *07130000
00075 C 001700* THE VSIO-PARAMETER-VALUES SUPPLY THE VALUES USED TO MOVE INTO *07140000
00076 C 001800* PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET *07150000
00077 C 001900* AND TO PROVIDE COMMANDS TO DRIVE THE ROUTINE. *07160000
00078 C 002000* ***** *07170000
00079 C 002100 01 VSIO-PARAMETER-VALUES. 07180000
00080 C 002200 02 VSIO-OPEN PIC X(08) VALUE 'OPEN ' 07190000
00081 C 002300 02 VSIO-CLOSE PIC X(08) VALUE 'CLOSE ' 07200000
00082 C 002400 02 VSIO-READ PIC X(08) VALUE 'READ ' 07210000
00083 C 002500 02 VSIO-WRITE PIC X(08) VALUE 'WRITE ' 07220000
00084 C 002600 02 VSIO-REWRITE PIC X(08) VALUE 'REWRITE ' 07230000
00085 C 002700 02 VSIO-DELETE PIC X(08) VALUE 'DELETE ' 07240000
00086 C 002800 02 VSIO-START-KEY-EQUAL PIC X(08) VALUE 'STARTEQ ' 07250000
00087 C 002900 02 VSIO-START-KEY-NOTLESS PIC X(08) VALUE 'STARTGE ' 07260000
00088 C 003000 02 VSIO-KSDS PIC X(04) VALUE 'KSDS' 07270000
00089 C 003100 02 VSIO-ESDS PIC X(04) VALUE 'ESDS' 07280000
00090 C 003200 02 VSIO-RRDS PIC X(04) VALUE 'RRDS' 07290000
00091 C 003300 02 VSIO-SEQUENTIAL PIC X(10) VALUE 'SEQUENTIAL' 07300000
00092 C 003400 02 VSIO-DIRECT PIC X(10) VALUE 'DIRECT ' 07310000
00093 C 003500 02 VSIO-DYNAMIC PIC X(10) VALUE 'DYNAMIC ' 07320000
00094 C 003600 02 VSIO-INPUT PIC X(06) VALUE 'INPUT ' 07330000
00095 C 003700 02 VSIO-OUTPUT PIC X(06) VALUE 'OUTPUT' 07340000
00096 C 003800 02 VSIO-INPUT-OUTPUT PIC X(06) VALUE 'UPDATE' 07350000
00097 C 003900 07360000
00098 C 004000* ***** *07370000
00099 C 004100* THE VSIO-PARAMETER-BLOCK IS THE COMMUNICATION INTERFACE TO *07380000
00100 C 004200* THE ROUTINE. *07390000
00101 C 004300* ***** *07400000
00102 C 004400 01 VSIO-PARAMETER-BLOCK. 07410000
00103 C 004500 02 VSIO-COMMAND PIC X(08). 07420000
00104 C 004600 02 VSIO-RETURN-CODE PIC S9(04) COMP. 07430000
00105 C 004700 88 VSIO-SUCCESS VALUE +0. 07440000
00106 C 004800 88 VSIO-LOGIC-ERROR VALUE +8. 07450000
00107 C 004900 88 VSIO-END-OF-FILE VALUE +9999. 07460000
00108 C 005000 88 VSIO-PARAMETER-ERROR VALUE +20 THRU +28. 07470000
00109 C 005100 88 VSIO-COMMAND-UNKNOWN VALUE +20. 07480000
00110 C 005200 88 VSIO-DATASET-ALREADY-OPEN VALUE +21. 07490000
00111 C 005300 88 VSIO-DATASET-NOT-OPEN VALUE +22. 07500000

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00112 C 005400      88 VSIO-ORGANIZATION-KEYWORD      VALUE +23.      07510000
00113 C 005500      88 VSIO-ACCESS-KEYWORD           VALUE +24.      07520000
00114 C 005600      88 VSIO-ACCESS-UNSUPPORTED        VALUE +25.      07530000
00115 C 005700      88 VSIO-MODE-KEYWORD              VALUE +26.      07540000
00116 C 005800      88 VSIO-MODE-UNSUPPORTED          VALUE +27.      07550000
00117 C 005900      88 VSIO-DDNAME-BLANK              VALUE +28.      07560000
00118 C 006000      02 VSIO-VSAM-RETURN-CODE      PIC S9(04) COMP.      07570000
00119 C 006100      02 VSIO-VSAM-FUNCTION-CODE     PIC S9(04) COMP.      07580000
00120 C 006200      02 VSIO-VSAM-FEEDBACK-CODE     PIC S9(04) COMP.      07590000
00121 C 006300      88 VSIO-DUPLICATE-RECORD          VALUE +8.       07600000
00122 C 006400      88 VSIO-SEQUENCE-ERROR              VALUE +12.      07610000
00123 C 006500      88 VSIO-RECORD-NOT-FOUND              VALUE +16.      07620000
00124 C 006600      88 VSIO-NO-MORE-SPACE                VALUE +28.      07630000
00125 C 006700      88 VSIO-READ-WITHOUT-START          VALUE +88.      07640000
00126 C 006800* ***** *07650000
00127 C 006900*                END OF VSAMIO COPY BOOK *07660000
00128 C 007000* ***** *07670000
00129      005900 01 KSDSF01                COPY VSAMIOFB.
00130 C 000100* ***** *00000100
00131 C 000200* ***** *00000200
00132 C 000300* VV  VV  SSSSS  A  M  M  IIII  00000  FFFFFFFF BBBB BB *00000300
00133 C 000400* VV  VV SS  SS  AAA  MM  MM  II  00  00 FF  BB  BB *00000400
00134 C 000500* VV  VV SS  SS  AA  AA  MMM  MMM  II  00  00 FF  BB  BB *00000500
00135 C 000600* VV  VV  SSSSS  AA  AA  MMMMMM  II  00  00 FFFF  BBBB BB *00000600
00136 C 000700* VV  VV  SS  SS  AA  AA  MM  M  MM  II  00  00 FF  BB  BB *00000700
00137 C 000800* VV VV SS  SS  AAAAAA MM  MM  II  00  00 FF  BB  BB *00000800
00138 C 000900* VVV  SS  SS  AA  AA  MM  MM  II  00  00 FF  BB  BB *00000900
00139 C 001000* V  SSSSS  AA  AA  MM  MM  IIII  00000  FF  BBBB BB *00001000
00140 C 001100* ***** *00001100
00141 C 001200* ***** *00001200
00142 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *00001300
00143 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS *00001400
00144 C 001500* FOR A SINGLE VSAM DATASET. *00001500
00145 C 001600* ***** *00001600
00146 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE *00001700
00147 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE *00001800
00148 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED *00001900
00149 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT *00002000
00150 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED. *00002100
00151 C 002200* ***** *00002200
00152 C 002300 01 KSDSF01.                00002300
00153 C 002400      02 VSIO-DDNAME                PIC X(08) VALUE SPACES. 00002400
00154 C 002500      02 VSIO-ORGANIZATION          PIC X(04) VALUE SPACES. 00002500
00155 C 002600      02 VSIO-ACCESS                PIC X(10) VALUE SPACES. 00002600
00156 C 002700      02 VSIO-MODE                  PIC X(06) VALUE SPACES. 00002700
00157 C 002800      02 VSIO-RECORD-LENGTH          PIC S9(04) COMP VALUE +0. 00002800
00158 C 002900      02 VSIO-KEY-ARGUMENT.          00002900
00159 C 003000      03 VSIO-KEY-POSITION          PIC S9(04) COMP VALUE +0. 00003000
00160 C 003100      03 VSIO-KEY-LENGTH            PIC S9(04) COMP VALUE +0. 00003100
00161 C 003200      02 VSIO-RELATIVE-RECORD        REDEFINES VSIO-KEY-ARGUMENT 00003200
00162 C 003300      PIC S9(08) COMP.                00003300
00163 C 003400      02 FILLER                      PIC X(01) VALUE 'C'. 00003400
00164 C 003500      88 VSIO-FILE-OPEN              VALUE 'O'. 00003500
00165 C 003600      88 VSIO-FILE-CLOSED            VALUE 'C'. 00003600
00166 C 003700      02 FILLER                      PIC X(161). 00003700
00167 C 003800* ***** *00003800
00168 C 003900*                END OF VSAMIOFB COPY BOOK *00003900

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00169 C 004000* ***** *00004000
00170 006000 01 MASTER-RECD.
00171 006100 02 MR-DELETE-CODE PIC X.
00172 006200 02 MR-ID PIC 9(7).
00173 006300 02 MR-FIRST-NAME PIC X(15).
00174 006400 02 MR-INITIAL PIC X.
00175 006500 02 MR-LAST-NAME PIC X(20).
00176 006600 02 MR-STREET PIC X(35).
00177 006700 02 MR-CITY-STATE-ZIP PIC X(35).
00178 006800 02 MR-GENDER-CODE PIC X.
00179 006900 02 MR-TELEPHONE PIC X(10).
00180 007000 02 MR-DATE-1 PIC X(8).
00181 007100 02 MR-DATE-2 PIC X(8).
00182 007200 02 MR-DATE-3 PIC X(8).
00183 007300 02 MR-SORT-NAME PIC X(36).
00184 007400 02 FILLER PIC X(15).
00185 007500*
00186 007600 PROCEDURE DIVISION.
00187 007700*
00188 007800 OPEN-FILES.
00189 007900*
00190 008000 OPEN INPUT SEQUENTIAL-FILE.
00191 008100*
00192 008200 MOVE 'MASTER' TO VSIO-DDNAME.
00193 008300 MOVE VSIO-KSDS TO VSIO-ORGANIZATION.
00194 008400 MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS.
00195 008500 MOVE VSIO-OUTPUT TO VSIO-MODE.
00196 008600 MOVE +200 TO VSIO-RECORD-LENGTH.
00197 008700 MOVE +1 TO VSIO-KEY-POSITION.
00198 008800 MOVE +7 TO VSIO-KEY-LENGTH.
00199 008900 MOVE VSIO-OPEN TO VSIO-COMMAND.
00200 009000 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
00201 009100 MASTER-RECD.
00202 009200 IF NOT VSIO-SUCCESS
00203 009300 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00204 009400 VSIO-COMMAND
00205 009500 EXHIBIT NAMED VSIO-RETURN-CODE,
00206 009600 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00207 009700 VSIO-VSAM-FUNCTION-CODE,
00208 009800 VSIO-VSAM-FEEDBACK-CODE
00209 009900 STOP RUN
00210 010000 .
00211 010100*
00212 010200 PERFORM PROCESS-SEQUENTIAL-FILE
00213 010300 THRU PROCESS-SEQUENTIAL-FILE-EXIT
00214 010400 UNTIL SEQUENTIAL-FILE-END
00215 010500 OR (NOT VSIO-SUCCESS).
00216 010600*
00217 010700 CLOSE SEQUENTIAL-FILE.
00218 010800*
00219 010900 MOVE VSIO-CLOSE TO VSIO-COMMAND.
00220 011000 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
00221 011100 MASTER-RECD.
00222 011200 IF NOT VSIO-SUCCESS
00223 011300 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00224 011400 VSIO-COMMAND
00225 011500 EXHIBIT NAMED VSIO-RETURN-CODE,

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00226 011600      EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00227 011700      VSIO-VSAM-FUNCTION-CODE,
00228 011800      VSIO-VSAM-FEEDBACK-CODE
00229 011900      STOP RUN
00230 012000      .
00231 012100*
00232 012200      MOVE INPUT-RECORD-COUNT TO COUNTER-EDIT.
00233 012300      DISPLAY COUNTER-EDIT ' RECORDS READ FROM SEQUENTIAL FILE'.
00234 012400      MOVE OUTPUT-RECORD-COUNT TO COUNTER-EDIT.
00235 012500      DISPLAY COUNTER-EDIT ' RECORDS WRITTEN TO VSAM MASTER'.
00236 012600*
00237 012700      GOBACK.
00238 012800*
00239 012900 PROCESS-SEQUENTIAL-FILE.
00240 013000*
00241 013100      READ SEQUENTIAL-FILE
00242 013200      AT END
00243 013300      MOVE 'Y' TO SEQUENTIAL-FILE-END-SWITCH.
00244 013400      IF NOT SEQUENTIAL-FILE-END
00245 013500      ADD 1 TO INPUT-RECORD-COUNT
00246 013600      PERFORM CREATE-VSAM-RECORD
00247 013700      THRU CREATE-VSAM-RECORD-EXIT
00248 013800      .
00249 013900*
00250 014000 PROCESS-SEQUENTIAL-FILE-EXIT.
00251 014100      EXIT.
00252 014200*
00253 014300 CREATE-VSAM-RECORD.
00254 014400*
00255 014500      MOVE SPACES TO MASTER-RECD.
00256 014600      MOVE SR-ID TO MR-ID.
00257 014700      MOVE SR-FIRST-NAME TO MR-FIRST-NAME.
00258 014800      MOVE SR-INITIAL TO MR-INITIAL.
00259 014900      MOVE SR-LAST-NAME TO MR-LAST-NAME.
00260 015000      MOVE SR-STREET TO MR-STREET.
00261 015100      MOVE SR-CITY-STATE-ZIP TO MR-CITY-STATE-ZIP.
00262 015200      MOVE SR-GENDER-CODE TO MR-GENDER-CODE.
00263 015300      MOVE SR-TELEPHONE TO MR-TELEPHONE.
00264 015400      MOVE SR-DATE-1 TO MR-DATE-1.
00265 015500      MOVE SR-DATE-2 TO MR-DATE-2.
00266 015600      MOVE SR-DATE-3 TO MR-DATE-3.
00267 015700      CALL 'SORTNAME' USING SR-FIRST-NAME, SR-LAST-NAME,
00268 015800      SR-INITIAL, MR-SORT-NAME.
00269 015900*
00270 016000      MOVE VSIO-WRITE TO VSIO-COMMAND.
00271 016100      CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
00272 016200      MASTER-RECD.
00273 016300*
00274 016400      IF VSIO-SUCCESS
00275 016500      ADD +1 TO OUTPUT-RECORD-COUNT.
00276 016600
00277 016700 CREATE-VSAM-RECORD-EXIT.
00278 016800      EXIT.
00279 016900*
00280 017000* END OF PROGRAM VSLOAD.

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| INTRNL NAME | LVL | SOURCE NAME                | BASE   | DISPL | INTRNL NAME | DEFINITION | USAGE   | R | O | Q | M |
|-------------|-----|----------------------------|--------|-------|-------------|------------|---------|---|---|---|---|
| DNM=1-169   | FD  | SEQUENTIAL-FILE            | DCB=01 |       | DNM=1-169   |            | QSAM    |   |   |   | F |
| DNM=1-197   | 01  | SEQUENTIAL-RECD            | BL=1   | 000   | DNM=1-197   | DS 0CL160  | GROUP   |   |   |   |   |
| DNM=1-225   | 02  | SR-ID                      | BL=1   | 000   | DNM=1-225   | DS 7C      | DISP-NM |   |   |   |   |
| DNM=1-240   | 02  | FILLER                     | BL=1   | 007   | DNM=1-240   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-256   | 02  | SR-FIRST-NAME              | BL=1   | 008   | DNM=1-256   | DS 15C     | DISP    |   |   |   |   |
| DNM=1-279   | 02  | FILLER                     | BL=1   | 017   | DNM=1-279   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-298   | 02  | SR-INITIAL                 | BL=1   | 018   | DNM=1-298   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-318   | 02  | FILLER                     | BL=1   | 019   | DNM=1-318   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-337   | 02  | SR-LAST-NAME               | BL=1   | 01A   | DNM=1-337   | DS 20C     | DISP    |   |   |   |   |
| DNM=1-359   | 02  | FILLER                     | BL=1   | 02E   | DNM=1-359   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-378   | 02  | SR-STREET                  | BL=1   | 02F   | DNM=1-378   | DS 35C     | DISP    |   |   |   |   |
| DNM=1-397   | 02  | FILLER                     | BL=1   | 052   | DNM=1-397   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-416   | 02  | SR-CITY-STATE-ZIP          | BL=1   | 053   | DNM=1-416   | DS 35C     | DISP    |   |   |   |   |
| DNM=1-443   | 02  | FILLER                     | BL=1   | 076   | DNM=1-443   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-462   | 02  | SR-GENDER-CODE             | BL=1   | 077   | DNM=1-462   | DS 1C      | DISP    |   |   |   |   |
| DNM=1-486   | 02  | FILLER                     | BL=1   | 078   | DNM=1-486   | DS 1C      | DISP    |   |   |   |   |
| DNM=2-000   | 02  | SR-TELEPHONE               | BL=1   | 079   | DNM=2-000   | DS 10C     | DISP    |   |   |   |   |
| DNM=2-022   | 02  | FILLER                     | BL=1   | 083   | DNM=2-022   | DS 1C      | DISP    |   |   |   |   |
| DNM=2-041   | 02  | SR-DATE-1                  | BL=1   | 084   | DNM=2-041   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-060   | 02  | FILLER                     | BL=1   | 08C   | DNM=2-060   | DS 1C      | DISP    |   |   |   |   |
| DNM=2-079   | 02  | SR-DATE-2                  | BL=1   | 08D   | DNM=2-079   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-098   | 02  | FILLER                     | BL=1   | 095   | DNM=2-098   | DS 1C      | DISP    |   |   |   |   |
| DNM=2-117   | 02  | SR-DATE-3                  | BL=1   | 096   | DNM=2-117   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-136   | 02  | FILLER                     | BL=1   | 09E   | DNM=2-136   | DS 2C      | DISP    |   |   |   |   |
| DNM=2-155   | 01  | SEQUENTIAL-FILE-END-SWITCH | BL=2   | 000   | DNM=2-155   | DS 1C      | DISP    |   |   |   |   |
| DNM=2-194   | 88  | SEQUENTIAL-FILE-END        |        |       | DNM=2-194   |            |         |   |   |   |   |
| DNM=2-224   | 01  | RECORD-COUNTERS            | BL=2   | 008   | DNM=2-224   | DS 0CL6    | GROUP   |   |   |   |   |
| DNM=2-252   | 02  | INPUT-RECORD-COUNT         | BL=2   | 008   | DNM=2-252   | DS 3P      | COMP-3  |   |   |   |   |
| DNM=2-280   | 02  | OUTPUT-RECORD-COUNT        | BL=2   | 00B   | DNM=2-280   | DS 3P      | COMP-3  |   |   |   |   |
| DNM=2-309   | 01  | COUNTER-EDIT               | BL=2   | 010   | DNM=2-309   | DS 6C      | NM-EDIT |   |   |   |   |
| DNM=2-342   | 01  | VSIO-PARAMETER-VALUES      | BL=2   | 018   | DNM=2-342   | DS 0CL124  | GROUP   |   |   |   |   |
| DNM=2-376   | 02  | VSIO-OPEN                  | BL=2   | 018   | DNM=2-376   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-395   | 02  | VSIO-CLOSE                 | BL=2   | 020   | DNM=2-395   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-415   | 02  | VSIO-READ                  | BL=2   | 028   | DNM=2-415   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-437   | 02  | VSIO-WRITE                 | BL=2   | 030   | DNM=2-437   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-457   | 02  | VSIO-REWRITE               | BL=2   | 038   | DNM=2-457   | DS 8C      | DISP    |   |   |   |   |
| DNM=2-479   | 02  | VSIO-DELETE                | BL=2   | 040   | DNM=2-479   | DS 8C      | DISP    |   |   |   |   |
| DNM=3-000   | 02  | VSIO-START-KEY-EQUAL       | BL=2   | 048   | DNM=3-000   | DS 8C      | DISP    |   |   |   |   |
| DNM=3-030   | 02  | VSIO-START-KEY-NOTLESS     | BL=2   | 050   | DNM=3-030   | DS 8C      | DISP    |   |   |   |   |
| DNM=3-062   | 02  | VSIO-KSDS                  | BL=2   | 058   | DNM=3-062   | DS 4C      | DISP    |   |   |   |   |
| DNM=3-081   | 02  | VSIO-ESDS                  | BL=2   | 05C   | DNM=3-081   | DS 4C      | DISP    |   |   |   |   |
| DNM=3-100   | 02  | VSIO-RRDS                  | BL=2   | 060   | DNM=3-100   | DS 4C      | DISP    |   |   |   |   |
| DNM=3-119   | 02  | VSIO-SEQUENTIAL            | BL=2   | 064   | DNM=3-119   | DS 10C     | DISP    |   |   |   |   |
| DNM=3-144   | 02  | VSIO-DIRECT                | BL=2   | 06E   | DNM=3-144   | DS 10C     | DISP    |   |   |   |   |
| DNM=3-165   | 02  | VSIO-DYNAMIC               | BL=2   | 078   | DNM=3-165   | DS 10C     | DISP    |   |   |   |   |
| DNM=3-187   | 02  | VSIO-INPUT                 | BL=2   | 082   | DNM=3-187   | DS 6C      | DISP    |   |   |   |   |
| DNM=3-207   | 02  | VSIO-OUTPUT                | BL=2   | 088   | DNM=3-207   | DS 6C      | DISP    |   |   |   |   |
| DNM=3-231   | 02  | VSIO-INPUT-OUTPUT          | BL=2   | 08E   | DNM=3-231   | DS 6C      | DISP    |   |   |   |   |
| DNM=3-258   | 01  | VSIO-PARAMETER-BLOCK       | BL=2   | 098   | DNM=3-258   | DS 0CL16   | GROUP   |   |   |   |   |
| DNM=3-291   | 02  | VSIO-COMMAND               | BL=2   | 098   | DNM=3-291   | DS 8C      | DISP    |   |   |   |   |
| DNM=3-313   | 02  | VSIO-RETURN-CODE           | BL=2   | 0A0   | DNM=3-313   | DS 2C      | COMP    |   |   |   |   |
| DNM=3-342   | 88  | VSIO-SUCCESS               |        |       | DNM=3-342   |            |         |   |   |   |   |
| DNM=3-367   | 88  | VSIO-LOGIC-ERROR           |        |       | DNM=3-367   |            |         |   |   |   |   |
| DNM=3-396   | 88  | VSIO-END-OF-FILE           |        |       | DNM=3-396   |            |         |   |   |   |   |
| DNM=3-427   | 88  | VSIO-PARAMETER-ERROR       |        |       | DNM=3-427   |            |         |   |   |   |   |

| INTRNL NAME | LVL | SOURCE NAME               | BASE | DISPL | INTRNL NAME | DEFINITION | USAGE   | R | O | Q | M |
|-------------|-----|---------------------------|------|-------|-------------|------------|---------|---|---|---|---|
| DNM=3-457   | 88  | VSIO-COMMAND-UNKNOWN      |      |       | DNM=3-457   |            |         |   |   |   |   |
| DNM=4-000   | 88  | VSIO-DATASET-ALREADY-OPEN |      |       | DNM=4-000   |            |         |   |   |   |   |
| DNM=4-039   | 88  | VSIO-DATASET-NOT-OPEN     |      |       | DNM=4-039   |            |         |   |   |   |   |
| DNM=4-074   | 88  | VSIO-ORGANIZATION-KEYWORD |      |       | DNM=4-074   |            |         |   |   |   |   |
| DNM=4-113   | 88  | VSIO-ACCESS-KEYWORD       |      |       | DNM=4-113   |            |         |   |   |   |   |
| DNM=4-146   | 88  | VSIO-ACCESS-UNSUPPORTED   |      |       | DNM=4-146   |            |         |   |   |   |   |
| DNM=4-183   | 88  | VSIO-MODE-KEYWORD         |      |       | DNM=4-183   |            |         |   |   |   |   |
| DNM=4-214   | 88  | VSIO-MODE-UNSUPPORTED     |      |       | DNM=4-214   |            |         |   |   |   |   |
| DNM=4-249   | 88  | VSIO-DDNAME-BLANK         |      |       | DNM=4-249   |            |         |   |   |   |   |
| DNM=4-280   | 02  | VSIO-VSAM-RETURN-CODE     | BL=2 | 0A2   | DNM=4-280   | DS 2C      | COMP    |   |   |   |   |
| DNM=4-311   | 02  | VSIO-VSAM-FUNCTION-CODE   | BL=2 | 0A4   | DNM=4-311   | DS 2C      | COMP    |   |   |   |   |
| DNM=4-344   | 02  | VSIO-VSAM-FEEDBACK-CODE   | BL=2 | 0A6   | DNM=4-344   | DS 2C      | COMP    |   |   |   |   |
| DNM=4-380   | 88  | VSIO-DUPLICATE-RECORD     |      |       | DNM=4-380   |            |         |   |   |   |   |
| DNM=4-414   | 88  | VSIO-SEQUENCE-ERROR       |      |       | DNM=4-414   |            |         |   |   |   |   |
| DNM=4-447   | 88  | VSIO-RECORD-NOT-FOUND     |      |       | DNM=4-447   |            |         |   |   |   |   |
| DNM=5-000   | 88  | VSIO-NO-MORE-SPACE        |      |       | DNM=5-000   |            |         |   |   |   |   |
| DNM=5-032   | 88  | VSIO-READ-WITHOUT-START   |      |       | DNM=5-032   |            |         |   |   |   |   |
| DNM=5-069   | 01  | KSDSF01                   | BL=2 | 0A8   | DNM=5-069   | DS 0CL196  | GROUP   |   |   |   |   |
| DNM=5-089   | 02  | VSIO-DDNAME               | BL=2 | 0A8   | DNM=5-089   | DS 8C      | DISP    |   |   |   |   |
| DNM=5-110   | 02  | VSIO-ORGANIZATION         | BL=2 | 0B0   | DNM=5-110   | DS 4C      | DISP    |   |   |   |   |
| DNM=5-137   | 02  | VSIO-ACCESS               | BL=2 | 0B4   | DNM=5-137   | DS 10C     | DISP    |   |   |   |   |
| DNM=5-158   | 02  | VSIO-MODE                 | BL=2 | 0BE   | DNM=5-158   | DS 6C      | DISP    |   |   |   |   |
| DNM=5-177   | 02  | VSIO-RECORD-LENGTH        | BL=2 | 0C4   | DNM=5-177   | DS 2C      | COMP    |   |   |   |   |
| DNM=5-205   | 02  | VSIO-KEY-ARGUMENT         | BL=2 | 0C6   | DNM=5-205   | DS 0CL4    | GROUP   |   |   |   |   |
| DNM=5-235   | 03  | VSIO-KEY-POSITION         | BL=2 | 0C6   | DNM=5-235   | DS 2C      | COMP    |   |   |   |   |
| DNM=5-265   | 03  | VSIO-KEY-LENGTH           | BL=2 | 0C8   | DNM=5-265   | DS 2C      | COMP    |   |   |   |   |
| DNM=5-290   | 02  | VSIO-RELATIVE-RECORD      | BL=2 | 0C6   | DNM=5-290   | DS 4C      | COMP    | R |   |   |   |
| DNM=5-320   | 02  | FILLER                    | BL=2 | 0CA   | DNM=5-320   | DS 1C      | DISP    |   |   |   |   |
| DNM=5-342   | 88  | VSIO-FILE-OPEN            |      |       | DNM=5-342   |            |         |   |   |   |   |
| DNM=5-370   | 88  | VSIO-FILE-CLOSED          |      |       | DNM=5-370   |            |         |   |   |   |   |
| DNM=5-397   | 02  | FILLER                    | BL=2 | 0CB   | DNM=5-397   | DS 161C    | DISP    |   |   |   |   |
| DNM=5-416   | 01  | MASTER-RECD               | BL=2 | 170   | DNM=5-416   | DS 0CL200  | GROUP   |   |   |   |   |
| DNM=5-440   | 02  | MR-DELETE-CODE            | BL=2 | 170   | DNM=5-440   | DS 1C      | DISP    |   |   |   |   |
| DNM=5-467   | 02  | MR-ID                     | BL=2 | 171   | DNM=5-467   | DS 7C      | DISP-NM |   |   |   |   |
| DNM=5-482   | 02  | MR-FIRST-NAME             | BL=2 | 178   | DNM=5-482   | DS 15C     | DISP    |   |   |   |   |
| DNM=6-000   | 02  | MR-INITIAL                | BL=2 | 187   | DNM=6-000   | DS 1C      | DISP    |   |   |   |   |
| DNM=6-020   | 02  | MR-LAST-NAME              | BL=2 | 188   | DNM=6-020   | DS 20C     | DISP    |   |   |   |   |
| DNM=6-042   | 02  | MR-STREET                 | BL=2 | 19C   | DNM=6-042   | DS 35C     | DISP    |   |   |   |   |
| DNM=6-061   | 02  | MR-CITY-STATE-ZIP         | BL=2 | 1BF   | DNM=6-061   | DS 35C     | DISP    |   |   |   |   |
| DNM=6-091   | 02  | MR-GENDER-CODE            | BL=2 | 1E2   | DNM=6-091   | DS 1C      | DISP    |   |   |   |   |
| DNM=6-115   | 02  | MR-TELEPHONE              | BL=2 | 1E3   | DNM=6-115   | DS 10C     | DISP    |   |   |   |   |
| DNM=6-137   | 02  | MR-DATE-1                 | BL=2 | 1ED   | DNM=6-137   | DS 8C      | DISP    |   |   |   |   |
| DNM=6-156   | 02  | MR-DATE-2                 | BL=2 | 1F5   | DNM=6-156   | DS 8C      | DISP    |   |   |   |   |
| DNM=6-175   | 02  | MR-DATE-3                 | BL=2 | 1FD   | DNM=6-175   | DS 8C      | DISP    |   |   |   |   |
| DNM=6-197   | 02  | MR-SORT-NAME              | BL=2 | 205   | DNM=6-197   | DS 36C     | DISP    |   |   |   |   |
| DNM=6-219   | 02  | FILLER                    | BL=2 | 229   | DNM=6-219   | DS 15C     | DISP    |   |   |   |   |

```
*STATISTICS*      SOURCE RECORDS =   278      DATA DIVISION STATEMENTS =   103      PROCEDURE DIVISION STATEMENTS =    53
*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
```

| CARD | ERROR MESSAGE |                           |                         |
|------|---------------|---------------------------|-------------------------|
| 210  | IKF1080I-W    | PERIOD PRECEDED BY SPACE. | ASSUME END OF SENTENCE. |
| 230  | IKF1080I-W    | PERIOD PRECEDED BY SPACE. | ASSUME END OF SENTENCE. |
| 248  | IKF1080I-W    | PERIOD PRECEDED BY SPACE. | ASSUME END OF SENTENCE. |

1

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00001 000100 IDENTIFICATION DIVISION.
00002 000200 PROGRAM-ID. SORTNAME.
00003 000300 AUTHOR. JAY MOSELEY.
00004 000400 DATE-WRITTEN. DECEMBER, 2021.
00005 000500 DATE-COMPILED. DEC 29, 2021
00006 000600 REMARKS. BUILDS SORT NAME FIELD FROM PASSED FIRST NAME,
00007 000700          LAST NAME, MIDDLE INITIAL.
00008 000800*
00009 000900 ENVIRONMENT DIVISION.
00010 001000 CONFIGURATION SECTION.
00011 001100 SOURCE-COMPUTER. IBM-370.
00012 001200 OBJECT-COMPUTER. IBM-370.
00013 001300 INPUT-OUTPUT SECTION.
00014 001400 FILE-CONTROL.
00015 001500*
00016 001600 DATA DIVISION.
00017 001700 FILE SECTION.
00018 001800*
00019 001900 WORKING-STORAGE SECTION.
00020 002000 01  WS-FIRST-NAME          PIC X(16).
00021 002100 01  FILLER                REDEFINES WS-FIRST-NAME.
00022 002200      02  WS-FIRST-CHAR          OCCURS 16 TIMES
00023 002300                                INDEXED BY FN-X
00024 002400                                PIC X.
00025 002500 01  WS-LAST-NAME             PIC X(21).
00026 002600 01  FILLER                REDEFINES WS-LAST-NAME.
00027 002700      02  WS-LAST-CHAR          OCCURS 21 TIMES
00028 002800                                INDEXED BY LN-X
00029 002900                                PIC X.
00030 003000*
00031 003100 LINKAGE SECTION.
00032 003200 01  FIRST-NAME              PIC X(15).
00033 003300 01  LAST-NAME              PIC X(20).
00034 003400 01  MIDDLE-INITIAL         PIC X.
00035 003500 01  SORT-NAME            PIC X(36).
00036 003600 01  FILLER                REDEFINES SORT-NAME.
00037 003700      02  SN-CHAR           OCCURS 36 TIMES
00038 003800                                INDEXED BY SN-X
00039 003900                                PIC X.
00040 004000*
00041 004100 PROCEDURE DIVISION USING FIRST-NAME, LAST-NAME,
00042 004200                        MIDDLE-INITIAL, SORT-NAME.
00043 004300*
00044 004400 BUILD-SORT-NAME.
00045 004500*
00046 004600      MOVE FIRST-NAME TO WS-FIRST-NAME.
00047 004700      MOVE LAST-NAME TO WS-LAST-NAME.
00048 004800      MOVE SPACES TO SORT-NAME.
00049 004900      SET LN-X, FN-X, SN-X TO 1.
00050 005000      PERFORM MOVE-LAST-NAME
00051 005100          THRU MOVE-LAST-NAME-EXIT
00052 005200          UNTIL WS-LAST-CHAR (LN-X) = SPACE
00053 005300              AND WS-LAST-CHAR (LN-X + 1) = SPACE.
00054 005400      PERFORM MOVE-FIRST-NAME

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```
00055 005500      THRU MOVE-FIRST-NAME-EXIT
00056 005600      UNTIL WS-FIRST-CHAR (FN-X) = SPACE
00057 005700      AND WS-FIRST-CHAR (FN-X + 1) = SPACE.
00058 005800      MOVE MIDDLE-INITIAL TO SN-CHAR (SN-X).
00059 005900*
00060 006000      GOBACK.
00061 006100*
00062 006200 MOVE-LAST-NAME.
00063 006300*
00064 006400      MOVE WS-LAST-CHAR (LN-X) TO SN-CHAR (SN-X).
00065 006500      SET LN-X, SN-X UP BY 1.
00066 006600*
00067 006700 MOVE-LAST-NAME-EXIT.
00068 006800      EXIT.
00069 006900*
00070 007000 MOVE-FIRST-NAME.
00071 007100*
00072 007200      MOVE WS-FIRST-CHAR (FN-X) TO SN-CHAR (SN-X).
00073 007300      SET FN-X, SN-X UP BY 1.
00074 007400*
00075 007500 MOVE-FIRST-NAME-EXIT.
00076 007600      EXIT.
00077 007700*
00078 007800* END OF PROGRAM SORTNAME.
```

| INTRNL NAME | LVL | SOURCE NAME    | BASE  | DISPL | INTRNL NAME | DEFINITION | USAGE    | R | O | Q | M |
|-------------|-----|----------------|-------|-------|-------------|------------|----------|---|---|---|---|
| DNM=1-150   | 01  | WS-FIRST-NAME  | BL=1  | 000   | DNM=1-150   | DS 16C     | DISP     |   |   |   |   |
| DNM=1-173   | 01  | FILLER         | BL=1  | 000   | DNM=1-173   | DS 0CL16   | GROUP    | R |   |   |   |
| DNM=1-192   |     | FN-X           |       |       | DNM=1-192   |            | INDEX-NM |   |   |   |   |
| DNM=1-203   | 02  | WS-FIRST-CHAR  | BL=1  | 000   | DNM=1-203   | DS 1C      | DISP     |   | 0 |   |   |
| DNM=1-226   | 01  | WS-LAST-NAME   | BL=1  | 010   | DNM=1-226   | DS 21C     | DISP     |   |   |   |   |
| DNM=1-248   | 01  | FILLER         | BL=1  | 010   | DNM=1-248   | DS 0CL21   | GROUP    | R |   |   |   |
| DNM=1-270   |     | LN-X           |       |       | DNM=1-270   |            | INDEX-NM |   |   |   |   |
| DNM=1-284   | 02  | WS-LAST-CHAR   | BL=1  | 010   | DNM=1-284   | DS 1C      | DISP     |   | 0 |   |   |
| DNM=1-306   | 01  | FIRST-NAME     | BLL=3 | 000   | DNM=1-306   | DS 15C     | DISP     |   |   |   |   |
| DNM=1-326   | 01  | LAST-NAME      | BLL=4 | 000   | DNM=1-326   | DS 20C     | DISP     |   |   |   |   |
| DNM=1-345   | 01  | MIDDLE-INITIAL | BLL=5 | 000   | DNM=1-345   | DS 1C      | DISP     |   |   |   |   |
| DNM=1-369   | 01  | SORT-NAME      | BLL=6 | 000   | DNM=1-369   | DS 36C     | DISP     |   |   |   |   |
| DNM=1-391   | 01  | FILLER         | BLL=6 | 000   | DNM=1-391   | DS 0CL36   | GROUP    | R |   |   |   |
| DNM=1-413   |     | SN-X           |       |       | DNM=1-413   |            | INDEX-NM |   |   |   |   |
| DNM=1-424   | 02  | SN-CHAR        | BLL=6 | 000   | DNM=1-424   | DS 1C      | DISP     |   | 0 |   |   |

```
*STATISTICS*      SOURCE RECORDS =      78      DATA DIVISION STATEMENTS =      12      PROCEDURE DIVISION STATEMENTS =      14
*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, NOLIB, NOVERB
*OPTIONS IN EFFECT*      ZWB
```

F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,XREF,LET  
DEFAULT OPTION(S) USED - SIZE=(65536,38912)  
IEW0000NAME VSLOAD(R)00001701

CROSS REFERENCE TABLE

| CONTROL SECTION       |                          |          | ENTRY              |          |          |           |          |                    |      |          |
|-----------------------|--------------------------|----------|--------------------|----------|----------|-----------|----------|--------------------|------|----------|
| NAME                  | ORIGIN                   | LENGTH   | NAME               | LOCATION | NAME     | LOCATION  | NAME     | LOCATION           | NAME | LOCATION |
| VSLOAD                | 00                       | BD2      |                    |          |          |           |          |                    |      |          |
| SORTNAME              | BD8                      | 5B2      |                    |          |          |           |          |                    |      |          |
| ILBODSP0*             | 1190                     | 700      |                    |          |          |           |          |                    |      |          |
| ILBOSTP0*             | 1890                     | 35       |                    |          |          |           |          |                    |      |          |
|                       |                          |          | ILBOSTP1           | 18A6     |          |           |          |                    |      |          |
| VSAMIO *              | 18C8                     | D0A      |                    |          |          |           |          |                    |      |          |
|                       |                          |          |                    |          |          |           |          |                    |      |          |
| LOCATION              | REFERS TO                | SYMBOL   | IN CONTROL SECTION |          | LOCATION | REFERS TO | SYMBOL   | IN CONTROL SECTION |      |          |
| 598                   |                          | ILBOSTP0 | ILBOSTP0           |          | 59C      |           | VSAMIO   | VSAMIO             |      |          |
| 5A0                   |                          | ILBODSP0 | ILBODSP0           |          | 5A4      |           | ILBOSTP1 | ILBOSTP0           |      |          |
| 5A8                   |                          | SORTNAME | SORTNAME           |          | E88      |           | ILBOSTP0 | ILBOSTP0           |      |          |
| E8C                   |                          | ILBOSTP1 | ILBOSTP0           |          |          |           |          |                    |      |          |
| ENTRY ADDRESS         |                          | 00       |                    |          |          |           |          |                    |      |          |
|                       |                          |          |                    |          |          |           |          |                    |      |          |
| TOTAL LENGTH          |                          | 25D8     |                    |          |          |           |          |                    |      |          |
| ****VSLOAD            | NOW REPLACED IN DATA SET |          |                    |          |          |           |          |                    |      |          |
| AUTHORIZATION CODE IS |                          | 0.       |                    |          |          |           |          |                    |      |          |

|         |             |        |       |        |            |        |          |
|---------|-------------|--------|-------|--------|------------|--------|----------|
| COBUCL5 | ( J 956 ) - | COBUC  | .COB  | ENDED, | CODE 0004, | 21.363 | 13:38:51 |
| COBUCL5 | ( J 956 ) - | COBUCL | .COB  | ENDED, | CODE 0000, | 21.363 | 13:38:51 |
| COBUCL5 | ( J 956 ) - | COBUCL | .LKED | ENDED, | CODE 0000, | 21.363 | 13:38:51 |