

J E S 2 J O B L O G

13.38.54 JOB 957 \$HASP373 COBUCL6 STARTED - INIT 1 - CLASS A - SYS HMVS
13.38.54 JOB 957 IEF403I COBUCL6 - STARTED - TIME=13.38.54
13.38.54 JOB 957 IEFACTRT COB /IKFCBL00/00:00:00.10/00:00:00.17/00004/COBUCL6
13.38.54 JOB 957 IEC130I SYSPUNCH DD STATEMENT MISSING
13.38.54 JOB 957 IEC130I SYSLIB DD STATEMENT MISSING
13.38.54 JOB 957 IEC130I SYSPUNCH DD STATEMENT MISSING
13.38.54 JOB 957 IEFACTRT COB /IKFCBL00/00:00:00.06/00:00:00.10/00000/COBUCL6
13.38.54 JOB 957 IEFACTRT LKED /IEWL /00:00:00.04/00:00:00.06/00000/COBUCL6
13.38.54 JOB 957 SE 'COBUCL6 (J 957)- COBUC .COB ENDED, CODE 0004, 21.363 13:38:54',USER=(JAY01),LOGON
13.38.54 JOB 957 SE 'COBUCL6 (J 957)- COBUCL .COB ENDED, CODE 0000, 21.363 13:38:54',USER=(JAY01),LOGON
13.38.54 JOB 957 SE 'COBUCL6 (J 957)- COBUCL .LKED ENDED, CODE 0000, 21.363 13:38:54',USER=(JAY01),LOGON
13.38.54 JOB 957 IEFACTRT COMPCODE/COMPCODE/00:00:00.01/00:00:00.02/00000/COBUCL6
13.38.54 JOB 957 IEF404I COBUCL6 - ENDED - TIME=13.38.54
13.38.54 JOB 957 \$HASP395 COBUCL6 ENDED

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

29 DEC 21 JOB EXECUTION DATE

22 CARDS READ

873 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

1	//COBUCL6 JOB (001), 'COBOL COMPILE', CLASS=A, MSGCLASS=X	JOB 957
	***	00000200
	*** ***** *	00000300
	*** * COMPILE MAIN PROGRAM -VSREPT- AND LINK INTO LOAD MODULE * *	00000402
	*** * -VSREPT- * *	00000502
	*** ***** *	00000600
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	00000800
13	//COB.SYSIN DD DISP=SHR, DSN=JAY01.ISAM.COBOL(VSREPT)	00000902
14	//COB.SYSLIN DD DSN=&LOADSET, DISP=(MOD, PASS), UNIT=SYSDA,	00001000
	// SPACE=(80, (500, 100))	00001100
15	//COBUCL EXEC COBUCL, CPARM1='NODECK, LOAD, DMAP, SUPMAP'	00001200
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)	00001300
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	00001400
	X/SYSLMOD DD DDNAME=SYSLMOD	00160000
30	//LKED.SYSLIB DD	00001500
	X/SYSLIB DD DSN=SYSC.COBLIB, DISP=SHR	00170000
31	// DD DISP=SHR, DSN=SYSC.COBLIB	00001600
32	// DD DISP=SHR, DSN=SYSC.LINKLIB	00001700
33	XXSYSUT1 DD UNIT=SYSDA, SPACE=(1024, (50, 20))	00180000
34	XXSYSPRINT DD SYSOUT=*	00190000
35	//LKED.SYSIN DD *	00001800
36	//COMPCODE EXEC PGM=COMPCODE, COND=EVEN,	00002000
	// PARM='USER=(JAY01)'	00002100
37	//SYSPRINT DD SYSOUT=*	00002200

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  STMT NO. MESSAGE
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   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 COBUCL6 COB COBUC
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO SYS00404
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSPUNCH
IEF237I 370  ALLOCATED TO SYSUT1
IEF237I 251  ALLOCATED TO SYSUT2
IEF237I 380  ALLOCATED TO SYSUT3
IEF237I 252  ALLOCATED TO SYSUT4
IEF237I 253  ALLOCATED TO SYSLIB
IEF237I 184  ALLOCATED TO SYSIN
IEF237I 180  ALLOCATED TO SYS00406
IEF237I 380  ALLOCATED TO SYSLIN
IEF142I COBUCL6 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.JOB00957.S00102      SYSOUT
IEF285I      JES2.JOB00957.S00103      SYSOUT
IEF285I      SYS21363.T133854.RA000.COBUCL6.R0000001 DELETED      *-----6
IEF285I      VOL SER NOS= MVS370.
IEF285I      SYS21363.T133854.RA000.COBUCL6.R0000002 DELETED      *-----6
IEF285I      VOL SER NOS= WORK00.
IEF285I      SYS21363.T133854.RA000.COBUCL6.R0000003 DELETED      *-----9
IEF285I      VOL SER NOS= MVS380.
IEF285I      SYS21363.T133854.RA000.COBUCL6.R0000004 DELETED      *-----10
IEF285I      VOL SER NOS= WORK01.
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.T133854.RA000.COBUCL6.LOADSET PASSED      *-----109
IEF285I      VOL SER NOS= MVS380.
IEF373I STEP /COB      / START 21363.1338
IEF374I STEP /COB      / STOP  21363.1338 CPU      0MIN 00.08SEC SRB      0MIN 00.02SEC VIRT  2076K SYS   232K
****  JOB NAME: COBUCL6  JOBCARD READ 2021/363 13:38:54 370/148 VS2 R03.8 HMVS *****
*
* STEP NUMBER:          1  USER CORE:          2076K  START TIME:    13:38:54      CPU TIME:      00:00:00.10  ACTIVE TIME:  00:00:00.13 *
* STEP NAME:          COB  SYSTEM CORE:          232K  STOP TIME:     13:38:54      SRB TIME:      00:00:00.02  ALLOC TIME:   13:38:54 *
* PROGRAM NAME:    IKFCBL00 REGION SIZE:          4096K  ELAPSED TIME: 00:00:00.17  TCB TIME:      00:00:00.08  PROGRAM LOAD: 13:38:54 *
* CONDITION CODE:   00004  PERFORMANCE GROUP: 004
*
* JES2 CARDS:          0          SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT *
*
*                      889          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          6 251/D3350          6 380/D3380          9 252/D3350          10 *
* 253/D3350          6 184/D3380          2 180/D3380          0 380/D3380          109
*****
IEF236I ALLOC. FOR COBUCL6 COB COBUCL
IEF237I 253  ALLOCATED TO STEPLIB
IEF237I 253  ALLOCATED TO SYS00408
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 252  ALLOCATED TO SYSUT1
IEF237I 370  ALLOCATED TO SYSUT2
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IEF237I 251 ALLOCATED TO SYSUT3
IEF237I 380 ALLOCATED TO SYSUT4
IEF237I 380 ALLOCATED TO SYSLIN
IEF237I 184 ALLOCATED TO SYSIN
IEF237I 180 ALLOCATED TO SYS00410
IEC130I SYSPUNCH DD STATEMENT MISSING
IEC130I SYSLIB DD STATEMENT MISSING
IEC130I SYSPUNCH DD STATEMENT MISSING
IEF142I COBUCL6 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.JOB00957.S00104 SYSOUT
IEF285I SYS21363.T133854.RA000.COBUCL6.R0000005 DELETED *-----6
IEF285I VOL SER NOS= WORK01.
IEF285I SYS21363.T133854.RA000.COBUCL6.R0000006 DELETED *-----6
IEF285I VOL SER NOS= MVS370.
IEF285I SYS21363.T133854.RA000.COBUCL6.R0000007 DELETED *-----9
IEF285I VOL SER NOS= WORK00.
IEF285I SYS21363.T133854.RA000.COBUCL6.R0000008 DELETED *-----3
IEF285I VOL SER NOS= MVS380.
IEF285I SYS21363.T133854.RA000.COBUCL6.LOADSET PASSED *-----29
IEF285I VOL SER NOS= MVS380.
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

*
* STEP NUMBER: 2 USER CORE: 2076K START TIME: 13:38:54 CPU TIME: 00:00:00.06 ACTIVE TIME: 00:00:00.06 *
* STEP NAME: COB SYSTEM CORE: 236K STOP TIME: 13:38:54 SRB TIME: 00:00:00.02 ALLOC TIME: 13:38:54 *
* PROGRAM NAME: IKFCBL00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.10 TCB TIME: 00:00:00.04 PROGRAM LOAD: 13:38:54 *
* 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 0 252/D3350 6 370/D3375 6 251/D3350 9 380/D3380 3 *
* 380/D3380 29 184/D3380 2 180/D3380 0 *

IEF236I ALLOC. FOR COBUCL6 LKED COBUCL
IEF237I 380 ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO
IEF237I 180 ALLOCATED TO SYSLMOD
IEF237I 180 ALLOCATED TO SYS00412
IEF237I 253 ALLOCATED TO SYSLIB
IEF237I 253 ALLOCATED TO
IEF237I 253 ALLOCATED TO
IEF237I 253 ALLOCATED TO SYS00414
IEF237I 252 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I COBUCL6 LKED COBUCL - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS21363.T133854.RA000.COBUCL6.LOADSET DELETED *-----139
IEF285I VOL SER NOS= MVS380.
IEF285I JES2.JOB00957.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 *-----33
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.T133854.RA000.COBUCL6.R0000009 DELETED *-----0
IEF285I VOL SER NOS= WORK01.
IEF285I JES2.JOB00957.S00105 SYSOUT
IEF373I STEP /LKED / START 21363.1338
IEF374I STEP /LKED / STOP 21363.1338 CPU 0MIN 00.03SEC SRB 0MIN 00.01SEC VIRT 96K SYS 192K

*
* STEP NUMBER: 3 USER CORE: 96K START TIME: 13:38:54 CPU TIME: 00:00:00.04 ACTIVE TIME: 00:00:00.03 *
* STEP NAME: LKED SYSTEM CORE: 192K STOP TIME: 13:38:54 SRB TIME: 00:00:00.01 ALLOC TIME: 13:38:54 *
* PROGRAM NAME: IEWL REGION SIZE: 96K ELAPSED TIME: 00:00:00.06 TCB TIME: 00:00:00.03 PROGRAM LOAD: 13:38:54 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 004 *
* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 963 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 *
* 380/D3380 139 180/D3380 13 180/D3380 0 253/D3350 33 253/D3350 0 253/D3350 0 *
* 253/D3350 0 252/D3350 0 *

IEF236I ALLOC. FOR COBUCL6 COMPCODE
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I COBUCL6 COMPCODE - STEP WAS EXECUTED - COND CODE 0000
IEF285I JES2.JOB00957.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

*
* STEP NUMBER: 4 USER CORE: 16K START TIME: 13:38:54 CPU TIME: 00:00:00.01 ACTIVE TIME: 00:00:00.02 *
* STEP NAME: COMPCODE SYSTEM CORE: 184K STOP TIME: 13:38:54 SRB TIME: 00:00:00.00 ALLOC TIME: 13:38:54 *
* PROGRAM NAME: COMPCODE REGION SIZE: 512K ELAPSED TIME: 00:00:00.02 TCB TIME: 00:00:00.01 PROGRAM LOAD: 13:38:54 *
* 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 /COBUCL6 / START 21363.1338
IEF376I JOB /COBUCL6 / STOP 21363.1338 CPU 0MIN 00.16SEC SRB 0MIN 00.05SEC

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00001 000100 IDENTIFICATION DIVISION.
00002 000200 PROGRAM-ID. VSREPT.
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 VSAM DATASET AND PRODUCES A SIMPLE
00007 000700 REPORT. SEQUENCE OF REPORT DEPENDS UPON DD USED FOR
00008 000800 MASTER.
00009 000900*
00010 001000 ENVIRONMENT DIVISION.
00011 001100 CONFIGURATION SECTION.
00012 001200 SOURCE-COMPUTER. IBM-370.
00013 001300 OBJECT-COMPUTER. IBM-370.
00014 001400 INPUT-OUTPUT SECTION.
00015 001500 FILE-CONTROL.
00016 001600*
00017 001700 SELECT REPORT-FILE
00018 001800 ASSIGN TO UR-S-REPORT.
00019 001900*
00020 002000 DATA DIVISION.
00021 002100 FILE SECTION.
00022 002200*
00023 002300 FD REPORT-FILE
00024 002400 LABEL RECORDS ARE OMITTED
00025 002500 BLOCK CONTAINS 0 RECORDS
00026 002600 REPORT IS PRIMARY-KEY-REPORT.
00027 002700*
00028 002800 WORKING-STORAGE SECTION.
00029 002900 01 VSAM-FILE-END-SWITCH PIC X VALUE 'N'.
00030 003000 88 VSAM-FILE-END VALUE 'Y'.
00031 003100 01 RECORD-COUNTERS USAGE IS COMP-3.
00032 003200 02 INPUT-RECORD-COUNT PIC S9(5) VALUE +0.
00033 003300*
00034 003400 01 VSIO-PARAMETER-VALUES COPY VSAMIO.
00035 C 000100* ***** *06980000
00036 C 000200* *06990000
00037 C 000300* VV VV SSSSS A M M IIII 00000 *07000000
00038 C 000400* VV VV SS SS AAA MM MM II 00 00 *07010000
00039 C 000500* VV VV SS AA AA MMM MMM II 00 00 *07020000
00040 C 000600* VV VV SSSSS AA AA MMMMMMMM II 00 00 *07030000
00041 C 000700* VV VV SS AA AA MM M MM II 00 00 *07040000
00042 C 000800* VV VV SS SS AAAAAA MM MM II 00 00 *07050000
00043 C 000900* VVV SS SS AA AA MM MM II 00 00 *07060000
00044 C 001000* V SSSSS AA AA MM MM IIII 00000 *07070000
00045 C 001100* *07080000
00046 C 001200* ***** *07090000
00047 C 001300* *07100000
00048 C 001400* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *07110000
00049 C 001500* ACCESS ROUTINE. *07120000
00050 C 001600* *07130000
00051 C 001700* THE VSIO-PARAMETER-VALUES SUPPLY THE VALUES USED TO MOVE INTO *07140000
00052 C 001800* PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET *07150000
00053 C 001900* AND TO PROVIDE COMMANDS TO DRIVE THE ROUTINE. *07160000
00054 C 002000* ***** *07170000
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00055 C 002100 01 VSIO-PARAMETER-VALUES. 07180000
00056 C 002200 02 VSIO-OPEN PIC X(08) VALUE 'OPEN ' 07190000
00057 C 002300 02 VSIO-CLOSE PIC X(08) VALUE 'CLOSE ' 07200000
00058 C 002400 02 VSIO-READ PIC X(08) VALUE 'READ ' 07210000
00059 C 002500 02 VSIO-WRITE PIC X(08) VALUE 'WRITE ' 07220000
00060 C 002600 02 VSIO-REWRITE PIC X(08) VALUE 'REWRITE ' 07230000
00061 C 002700 02 VSIO-DELETE PIC X(08) VALUE 'DELETE ' 07240000
00062 C 002800 02 VSIO-START-KEY-EQUAL PIC X(08) VALUE 'STARTEQ ' 07250000
00063 C 002900 02 VSIO-START-KEY-NOTLESS PIC X(08) VALUE 'STARTGE ' 07260000
00064 C 003000 02 VSIO-KSDS PIC X(04) VALUE 'KSDS' 07270000
00065 C 003100 02 VSIO-ESDS PIC X(04) VALUE 'ESDS' 07280000
00066 C 003200 02 VSIO-RRDS PIC X(04) VALUE 'RRDS' 07290000
00067 C 003300 02 VSIO-SEQUENTIAL PIC X(10) VALUE 'SEQUENTIAL' 07300000
00068 C 003400 02 VSIO-DIRECT PIC X(10) VALUE 'DIRECT ' 07310000
00069 C 003500 02 VSIO-DYNAMIC PIC X(10) VALUE 'DYNAMIC ' 07320000
00070 C 003600 02 VSIO-INPUT PIC X(06) VALUE 'INPUT ' 07330000
00071 C 003700 02 VSIO-OUTPUT PIC X(06) VALUE 'OUTPUT' 07340000
00072 C 003800 02 VSIO-INPUT-OUTPUT PIC X(06) VALUE 'UPDATE' 07350000
00073 C 003900 07360000
00074 C 004000* ***** *07370000
00075 C 004100* THE VSIO-PARAMETER-BLOCK IS THE COMMUNICATION INTERFACE TO *07380000
00076 C 004200* THE ROUTINE. *07390000
00077 C 004300* ***** *07400000
00078 C 004400 01 VSIO-PARAMETER-BLOCK. 07410000
00079 C 004500 02 VSIO-COMMAND PIC X(08). 07420000
00080 C 004600 02 VSIO-RETURN-CODE PIC S9(04) COMP. 07430000
00081 C 004700 88 VSIO-SUCCESS VALUE +0. 07440000
00082 C 004800 88 VSIO-LOGIC-ERROR VALUE +8. 07450000
00083 C 004900 88 VSIO-END-OF-FILE VALUE +9999. 07460000
00084 C 005000 88 VSIO-PARAMETER-ERROR VALUE +20 THRU +28. 07470000
00085 C 005100 88 VSIO-COMMAND-UNKNOWN VALUE +20. 07480000
00086 C 005200 88 VSIO-DATASET-ALREADY-OPEN VALUE +21. 07490000
00087 C 005300 88 VSIO-DATASET-NOT-OPEN VALUE +22. 07500000
00088 C 005400 88 VSIO-ORGANIZATION-KEYWORD VALUE +23. 07510000
00089 C 005500 88 VSIO-ACCESS-KEYWORD VALUE +24. 07520000
00090 C 005600 88 VSIO-ACCESS-UNSUPPORTED VALUE +25. 07530000
00091 C 005700 88 VSIO-MODE-KEYWORD VALUE +26. 07540000
00092 C 005800 88 VSIO-MODE-UNSUPPORTED VALUE +27. 07550000
00093 C 005900 88 VSIO-DDNAME-BLANK VALUE +28. 07560000
00094 C 006000 02 VSIO-VSAM-RETURN-CODE PIC S9(04) COMP. 07570000
00095 C 006100 02 VSIO-VSAM-FUNCTION-CODE PIC S9(04) COMP. 07580000
00096 C 006200 02 VSIO-VSAM-FEEDBACK-CODE PIC S9(04) COMP. 07590000
00097 C 006300 88 VSIO-DUPLICATE-RECORD VALUE +8. 07600000
00098 C 006400 88 VSIO-SEQUENCE-ERROR VALUE +12. 07610000
00099 C 006500 88 VSIO-RECORD-NOT-FOUND VALUE +16. 07620000
00100 C 006600 88 VSIO-NO-MORE-SPACE VALUE +28. 07630000
00101 C 006700 88 VSIO-READ-WITHOUT-START VALUE +88. 07640000
00102 C 006800* ***** *07650000
00103 C 006900* END OF VSAMIO COPY BOOK *07660000
00104 C 007000* ***** *07670000
00105 003500 01 KSDSF01 COPY VSAMIOFB.
00106 C 000100* ***** *00000100
00107 C 000200* *00000200
00108 C 000300* VV VV SSSSS A M M IIII 00000 FFFFFFFF BBBB *00000300
00109 C 000400* VV VV SS SS AAA MM MM II 00 00 FF BB BB *00000400
00110 C 000500* VV VV SS AA AA MMM MMM II 00 00 FF BB BB *00000500
00111 C 000600* VV VV SSSSS AA AA MMMMMMMM II 00 00 FFFF BBBB *00000600

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00112 C 000700*  VV  VV      SS AA  AA MM M MM  II  00  00 FF      BB  BB  *00000700
00113 C 000800*  VV VV  SS   SS AAAAAA MM  MM  II  00  00 FF      BB  BB  *00000800
00114 C 000900*   VVV  SS   SS AA  AA MM  MM  II  00  00 FF      BB  BB  *00000900
00115 C 001000*    V   SSSSS  AA  AA MM  MM IIII  00000  FF      BBBB BB  *00001000
00116 C 001100*                                     *00001100
00117 C 001200* *****                                     *00001200
00118 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *00001300
00119 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS *00001400
00120 C 001500* FOR A SINGLE VSAM DATASET. *00001500
00121 C 001600*                                     *00001600
00122 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE *00001700
00123 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE *00001800
00124 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED *00001900
00125 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT *00002000
00126 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED. *00002100
00127 C 002200* *****                                     *00002200
00128 C 002300 01  KSDSF01. *00002300
00129 C 002400 02  VSIO-DDNAME PIC X(08) VALUE SPACES. *00002400
00130 C 002500 02  VSIO-ORGANIZATION PIC X(04) VALUE SPACES. *00002500
00131 C 002600 02  VSIO-ACCESS PIC X(10) VALUE SPACES. *00002600
00132 C 002700 02  VSIO-MODE PIC X(06) VALUE SPACES. *00002700
00133 C 002800 02  VSIO-RECORD-LENGTH PIC S9(04) COMP VALUE +0. *00002800
00134 C 002900 02  VSIO-KEY-ARGUMENT. *00002900
00135 C 003000 03  VSIO-KEY-POSITION PIC S9(04) COMP VALUE +0. *00003000
00136 C 003100 03  VSIO-KEY-LENGTH PIC S9(04) COMP VALUE +0. *00003100
00137 C 003200 02  VSIO-RELATIVE-RECORD REDEFINES VSIO-KEY-ARGUMENT *00003200
00138 C 003300 PIC S9(08) COMP. *00003300
00139 C 003400 02  FILLER PIC X(01) VALUE 'C'. *00003400
00140 C 003500 88  VSIO-FILE-OPEN VALUE 'O'. *00003500
00141 C 003600 88  VSIO-FILE-CLOSED VALUE 'C'. *00003600
00142 C 003700 02  FILLER PIC X(161). *00003700
00143 C 003800* *****                                     *00003800
00144 C 003900* END OF VSAMIOFB COPY BOOK *00003900
00145 C 004000* *****                                     *00004000
00146 003600 01  MASTER-RECD.
00147 003700 02  MR-DELETE-CODE PIC X.
00148 003800 02  MR-ID PIC 9(7).
00149 003900 02  MR-FIRST-NAME PIC X(15).
00150 004000 02  MR-INITIAL PIC X.
00151 004100 02  MR-LAST-NAME PIC X(20).
00152 004200 02  MR-STREET PIC X(35).
00153 004300 02  MR-CITY-STATE-ZIP PIC X(35).
00154 004400 02  MR-GENDER-CODE PIC X.
00155 004500 02  MR-TELEPHONE PIC X(10).
00156 004600 02  FILLER REDEFINES MR-TELEPHONE.
00157 004700 03  MR-TELEPHONE-A PIC 9(3).
00158 004800 03  MR-TELEPHONE-P PIC 9(3).
00159 004900 03  MR-TELEPHONE-N PIC 9(4).
00160 005000 02  MR-DATE-1 PIC X(8).
00161 005100 02  FILLER REDEFINES MR-DATE-1.
00162 005200 03  MR-DATE-1M PIC 9(2).
00163 005300 03  MR-DATE-1D PIC 9(2).
00164 005400 03  MR-DATE-1Y PIC 9(4).
00165 005500 02  MR-DATE-2 PIC X(8).
00166 005600 02  FILLER REDEFINES MR-DATE-2.
00167 005700 03  MR-DATE-2M PIC 9(2).
00168 005800 03  MR-DATE-2D PIC 9(2).

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00169	005900		03	MR-DATE-2Y	PIC 9(4).
00170	006000	02		MR-DATE-3	PIC X(8).
00171	006100	02		FILLER	REDEFINES MR-DATE-3.
00172	006200		03	MR-DATE-3M	PIC 9(2).
00173	006300		03	MR-DATE-3D	PIC 9(2).
00174	006400		03	MR-DATE-3Y	PIC 9(4).
00175	006500	02		MR-SORT-NAME	PIC X(36).
00176	006600	02		FILLER	PIC X(15).
00177	006700*				
00178	006800			REPORT SECTION.	
00179	006900	RD		PRIMARY-KEY-REPORT	
00180	007000			CONTROLS IS FINAL	
00181	007100			PAGE LIMIT IS 60 LINES	
00182	007200			FIRST DETAIL 3	
00183	007300			LAST DETAIL 55.	
00184	007400*				
00185	007500	01		HEADING-ON-PAGE	TYPE IS PAGE HEADING.
00186	007600		02	LINE 1.	
00187	007700*				
00188	007800	01		RECORD-DETAIL	TYPE IS DETAIL.
00189	007900		02	LINE PLUS 1.	
00190	008000		03	COLUMN 01	PIC X
00191	008100				SOURCE IS MR-DELETE-CODE.
00192	008200		03	COLUMN 03	PIC 9(7)
00193	008300				SOURCE IS MR-ID.
00194	008400		03	COLUMN 11	PIC X(15)
00195	008500				SOURCE IS MR-FIRST-NAME.
00196	008600		03	COLUMN 27	PIC X
00197	008700				SOURCE IS MR-INITIAL.
00198	008800		03	COLUMN 29	PIC X(20)
00199	008900				SOURCE IS MR-LAST-NAME.
00200	009000		03	COLUMN 50	PIC X(35)
00201	009100				SOURCE IS MR-STREET.
00202	009200		03	COLUMN 86	PIC X
00203	009300				SOURCE IS MR-GENDER-CODE.
00204	009400		03	COLUMN 88	PIC X
00205	009500				VALUE '('.
00206	009600		03	COLUMN 89	PIC 9(3)
00207	009700				SOURCE IS MR-TELEPHONE-A.
00208	009800		03	COLUMN 92	PIC X
00209	009900				VALUE ')'.
00210	010000		03	COLUMN 93	PIC 9(3)
00211	010100				SOURCE IS MR-TELEPHONE-P.
00212	010200		03	COLUMN 96	PIC X
00213	010300				VALUE '-'.
00214	010400		03	COLUMN 97	PIC 9(4)
00215	010500				SOURCE IS MR-TELEPHONE-N.
00216	010600		03	COLUMN 102	PIC 9(2)
00217	010700				SOURCE IS MR-DATE-1M.
00218	010800		03	COLUMN 104	PIC X
00219	010900				VALUE '/'.
00220	011000		03	COLUMN 105	PIC 9(2)
00221	011100				SOURCE IS MR-DATE-1D.
00222	011200		03	COLUMN 107	PIC X
00223	011300				VALUE '/'.
00224	011400		03	COLUMN 108	PIC 9(4)
00225	011500				SOURCE IS MR-DATE-1Y.

00226	011600	03	COLUMN 113	PIC 9(2)
00227	011700			SOURCE IS MR-DATE-2M.
00228	011800	03	COLUMN 115	PIC X
00229	011900			VALUE '/'.
00230	012000	03	COLUMN 116	PIC 9(2)
00231	012100			SOURCE IS MR-DATE-2D.
00232	012200	03	COLUMN 118	PIC X
00233	012300			VALUE '/'.
00234	012400	03	COLUMN 119	PIC 9(4)
00235	012500			SOURCE IS MR-DATE-2Y.
00236	012600	02	LINE PLUS 1.	
00237	012700	03	COLUMN 11	PIC X(36)
00238	012800			SOURCE IS MR-SORT-NAME.
00239	012900	03	COLUMN 50	PIC X(35)
00240	013000			SOURCE IS MR-CITY-STATE-ZIP.
00241	013100	03	COLUMN 102	PIC 9(2)
00242	013200			SOURCE IS MR-DATE-3M.
00243	013300	03	COLUMN 104	PIC X
00244	013400			VALUE '/'.
00245	013500	03	COLUMN 105	PIC 9(2)
00246	013600			SOURCE IS MR-DATE-3D.
00247	013700	03	COLUMN 107	PIC X
00248	013800			VALUE '/'.
00249	013900	03	COLUMN 108	PIC 9(4)
00250	014000			SOURCE IS MR-DATE-3Y.
00251	014100	02	LINE PLUS 1.	
00252	014200*			
00253	014300	01	REPORT-FOOTING	TYPE IS CONTROL FOOTING FINAL.
00254	014400	02	LINE NEXT PAGE.	
00255	014500	03	COLUMN 01	PIC ZZ,ZZ9
00256	014600			SOURCE IS INPUT-RECORD-COUNT.
00257	014700	03	COLUMN 08	PIC X(22)
00258	014800			VALUE 'RECORDS READ FROM FILE'.
00259	014900*			
00260	015000		PROCEDURE DIVISION.	
00261	015100*			
00262	015200		OPEN-FILES.	
00263	015300*			
00264	015400		MOVE 'MASTER' TO VSIO-DDNAME.	
00265	015500		MOVE VSIO-KSDS TO VSIO-ORGANIZATION.	
00266	015600		MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS.	
00267	015700		MOVE VSIO-INPUT TO VSIO-MODE.	
00268	015800		MOVE +200 TO VSIO-RECORD-LENGTH.	
00269	015900		MOVE +1 TO VSIO-KEY-POSITION.	
00270	016000		MOVE +7 TO VSIO-KEY-LENGTH.	
00271	016100		MOVE VSIO-OPEN TO VSIO-COMMAND.	
00272	016200		CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,	
00273	016300		MASTER-RECD.	
00274	016400		IF NOT VSIO-SUCCESS	
00275	016500		DISPLAY 'VSAMIO ERROR OCCURRED DURING '	
00276	016600		VSIO-COMMAND	
00277	016700		EXHIBIT NAMED VSIO-RETURN-CODE,	
00278	016800		EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,	
00279	016900		VSIO-VSAM-FUNCTION-CODE,	
00280	017000		VSIO-VSAM-FEEDBACK-CODE	
00281	017100		STOP RUN	
00282	017200		.	

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00283 017300*
00284 017400 OPEN OUTPUT REPORT-FILE.
00285 017500*
00286 017600 INITIATE PRIMARY-KEY-REPORT.
00287 017700 PERFORM PROCESS-VSAM-MASTER
00288 017800 THRU PROCESS-VSAM-MASTER-EXIT
00289 017900 UNTIL VSAM-FILE-END.
00290 018000 TERMINATE PRIMARY-KEY-REPORT.
00291 018100*
00292 018200 MOVE VSIO-CLOSE TO VSIO-COMMAND.
00293 018300 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
00294 018400 MASTER-RECD.
00295 018500 IF NOT VSIO-SUCCESS
00296 018600 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00297 018700 VSIO-COMMAND
00298 018800 EXHIBIT NAMED VSIO-RETURN-CODE,
00299 018900 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00300 019000 VSIO-VSAM-FUNCTION-CODE,
00301 019100 VSIO-VSAM-FEEDBACK-CODE.
00302 019200 CLOSE REPORT-FILE.
00303 019300*
00304 019400 GOBACK.
00305 019500*
00306 019600 PROCESS-VSAM-MASTER.
00307 019700*
00308 019800 MOVE VSIO-READ TO VSIO-COMMAND.
00309 019900 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, KSDSF01,
00310 020000 MASTER-RECD.
00311 020100
00312 020200 IF NOT VSIO-SUCCESS
00313 020300 IF VSIO-END-OF-FILE
00314 020400 MOVE 'Y' TO VSAM-FILE-END-SWITCH
00315 020500 ELSE
00316 020600 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00317 020700 VSIO-COMMAND
00318 020800 EXHIBIT NAMED VSIO-RETURN-CODE,
00319 020900 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00320 021000 VSIO-VSAM-FUNCTION-CODE,
00321 021100 VSIO-VSAM-FEEDBACK-CODE
00322 021200 MOVE 'Y' TO VSAM-FILE-END-SWITCH
00323 021300 .
00324 021400 IF NOT VSAM-FILE-END
00325 021500 ADD 1 TO INPUT-RECORD-COUNT
00326 021600 GENERATE RECORD-DETAIL
00327 021700 .
00328 021800*
00329 021900 PROCESS-VSAM-MASTER-EXIT.
00330 022000 EXIT.
00331 022100*
00332 022200* END OF PROGRAM VSREPT.

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INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=1-106	FD	REPORT-FILE	DCB=01		DNM=1-106		QSAM				F
DNM=1-130	01	-0001	BL=1	000	DNM=1-130	DS 133C	DISP				
DNM=1-145	01	VSAM-FILE-END-SWITCH	BL=2	000	DNM=1-145	DS 1C	DISP				
DNM=1-178	88	VSAM-FILE-END			DNM=1-178						
DNM=1-202	01	RECORD-COUNTERS	BL=2	008	DNM=1-202	DS 0CL3	GROUP				
DNM=1-230	02	INPUT-RECORD-COUNT	BL=2	008	DNM=1-230	DS 3P	COMP-3				
DNM=1-258	01	VSIO-PARAMETER-VALUES	BL=2	010	DNM=1-258	DS 0CL124	GROUP				
DNM=1-292	02	VSIO-OPEN	BL=2	010	DNM=1-292	DS 8C	DISP				
DNM=1-311	02	VSIO-CLOSE	BL=2	018	DNM=1-311	DS 8C	DISP				
DNM=1-334	02	VSIO-READ	BL=2	020	DNM=1-334	DS 8C	DISP				
DNM=1-356	02	VSIO-WRITE	BL=2	028	DNM=1-356	DS 8C	DISP				
DNM=1-376	02	VSIO-REWRITE	BL=2	030	DNM=1-376	DS 8C	DISP				
DNM=1-398	02	VSIO-DELETE	BL=2	038	DNM=1-398	DS 8C	DISP				
DNM=1-419	02	VSIO-START-KEY-EQUAL	BL=2	040	DNM=1-419	DS 8C	DISP				
DNM=1-449	02	VSIO-START-KEY-NOTLESS	BL=2	048	DNM=1-449	DS 8C	DISP				
DNM=1-481	02	VSIO-KSDS	BL=2	050	DNM=1-481	DS 4C	DISP				
DNM=2-000	02	VSIO-ESDS	BL=2	054	DNM=2-000	DS 4C	DISP				
DNM=2-019	02	VSIO-RRDS	BL=2	058	DNM=2-019	DS 4C	DISP				
DNM=2-038	02	VSIO-SEQUENTIAL	BL=2	05C	DNM=2-038	DS 10C	DISP				
DNM=2-063	02	VSIO-DIRECT	BL=2	066	DNM=2-063	DS 10C	DISP				
DNM=2-084	02	VSIO-DYNAMIC	BL=2	070	DNM=2-084	DS 10C	DISP				
DNM=2-106	02	VSIO-INPUT	BL=2	07A	DNM=2-106	DS 6C	DISP				
DNM=2-126	02	VSIO-OUTPUT	BL=2	080	DNM=2-126	DS 6C	DISP				
DNM=2-147	02	VSIO-INPUT-OUTPUT	BL=2	086	DNM=2-147	DS 6C	DISP				
DNM=2-174	01	VSIO-PARAMETER-BLOCK	BL=2	090	DNM=2-174	DS 0CL16	GROUP				
DNM=2-207	02	VSIO-COMMAND	BL=2	090	DNM=2-207	DS 8C	DISP				
DNM=2-232	02	VSIO-RETURN-CODE	BL=2	098	DNM=2-232	DS 2C	COMP				
DNM=2-261	88	VSIO-SUCCESS			DNM=2-261						
DNM=2-286	88	VSIO-LOGIC-ERROR			DNM=2-286						
DNM=2-315	88	VSIO-END-OF-FILE			DNM=2-315						
DNM=2-346	88	VSIO-PARAMETER-ERROR			DNM=2-346						
DNM=2-376	88	VSIO-COMMAND-UNKNOWN			DNM=2-376						
DNM=2-410	88	VSIO-DATASET-ALREADY-OPEN			DNM=2-410						
DNM=2-449	88	VSIO-DATASET-NOT-OPEN			DNM=2-449						
DNM=3-000	88	VSIO-ORGANIZATION-KEYWORD			DNM=3-000						
DNM=3-039	88	VSIO-ACCESS-KEYWORD			DNM=3-039						
DNM=3-072	88	VSIO-ACCESS-UNSUPPORTED			DNM=3-072						
DNM=3-109	88	VSIO-MODE-KEYWORD			DNM=3-109						
DNM=3-140	88	VSIO-MODE-UNSUPPORTED			DNM=3-140						
DNM=3-175	88	VSIO-DDNAME-BLANK			DNM=3-175						
DNM=3-206	02	VSIO-VSAM-RETURN-CODE	BL=2	09A	DNM=3-206	DS 2C	COMP				
DNM=3-237	02	VSIO-VSAM-FUNCTION-CODE	BL=2	09C	DNM=3-237	DS 2C	COMP				
DNM=3-270	02	VSIO-VSAM-FEEDBACK-CODE	BL=2	09E	DNM=3-270	DS 2C	COMP				
DNM=3-306	88	VSIO-DUPLICATE-RECORD			DNM=3-306						
DNM=3-340	88	VSIO-SEQUENCE-ERROR			DNM=3-340						
DNM=3-373	88	VSIO-RECORD-NOT-FOUND			DNM=3-373						
DNM=3-408	88	VSIO-NO-MORE-SPACE			DNM=3-408						
DNM=3-440	88	VSIO-READ-WITHOUT-START			DNM=3-440						
DNM=3-477	01	KSDSF01	BL=2	0A0	DNM=3-477	DS 0CL196	GROUP				
DNM=4-000	02	VSIO-DDNAME	BL=2	0A0	DNM=4-000	DS 8C	DISP				
DNM=4-021	02	VSIO-ORGANIZATION	BL=2	0A8	DNM=4-021	DS 4C	DISP				
DNM=4-048	02	VSIO-ACCESS	BL=2	0AC	DNM=4-048	DS 10C	DISP				
DNM=4-069	02	VSIO-MODE	BL=2	0B6	DNM=4-069	DS 6C	DISP				
DNM=4-088	02	VSIO-RECORD-LENGTH	BL=2	0BC	DNM=4-088	DS 2C	COMP				
DNM=4-116	02	VSIO-KEY-ARGUMENT	BL=2	0BE	DNM=4-116	DS 0CL4	GROUP				

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=4-146	03	VSIO-KEY-POSITION	BL=2	0BE	DNM=4-146	DS 2C	COMP				
DNM=4-176	03	VSIO-KEY-LENGTH	BL=2	0C0	DNM=4-176	DS 2C	COMP				
DNM=4-201	02	VSIO-RELATIVE-RECORD	BL=2	0BE	DNM=4-201	DS 4C	COMP	R			
DNM=4-231	02	FILLER	BL=2	0C2	DNM=4-231	DS 1C	DISP				
DNM=4-250	88	VSIO-FILE-OPEN			DNM=4-250						
DNM=4-275	88	VSIO-FILE-CLOSED			DNM=4-275						
DNM=4-302	02	FILLER	BL=2	0C3	DNM=4-302	DS 161C	DISP				
DNM=4-321	01	MASTER-RECD	BL=2	168	DNM=4-321	DS 0CL200	GROUP				
DNM=4-345	02	MR-DELETE-CODE	BL=2	168	DNM=4-345	DS 1C	DISP				
DNM=4-372	02	MR-ID	BL=2	169	DNM=4-372	DS 7C	DISP-NM				
DNM=4-387	02	MR-FIRST-NAME	BL=2	170	DNM=4-387	DS 15C	DISP				
DNM=4-410	02	MR-INITIAL	BL=2	17F	DNM=4-410	DS 1C	DISP				
DNM=4-430	02	MR-LAST-NAME	BL=2	180	DNM=4-430	DS 20C	DISP				
DNM=4-452	02	MR-STREET	BL=2	194	DNM=4-452	DS 35C	DISP				
DNM=4-471	02	MR-CITY-STATE-ZIP	BL=2	1B7	DNM=4-471	DS 35C	DISP				
DNM=5-000	02	MR-GENDER-CODE	BL=2	1DA	DNM=5-000	DS 1C	DISP				
DNM=5-024	02	MR-TELEPHONE	BL=2	1DB	DNM=5-024	DS 10C	DISP				
DNM=5-046	02	FILLER	BL=2	1DB	DNM=5-046	DS 0CL10	GROUP	R			
DNM=5-068	03	MR-TELEPHONE-A	BL=2	1DB	DNM=5-068	DS 3C	DISP-NM				
DNM=5-092	03	MR-TELEPHONE-P	BL=2	1DE	DNM=5-092	DS 3C	DISP-NM				
DNM=5-116	03	MR-TELEPHONE-N	BL=2	1E1	DNM=5-116	DS 4C	DISP-NM				
DNM=5-140	02	MR-DATE-1	BL=2	1E5	DNM=5-140	DS 8C	DISP				
DNM=5-159	02	FILLER	BL=2	1E5	DNM=5-159	DS 0CL8	GROUP	R			
DNM=5-181	03	MR-DATE-1M	BL=2	1E5	DNM=5-181	DS 2C	DISP-NM				
DNM=5-201	03	MR-DATE-1D	BL=2	1E7	DNM=5-201	DS 2C	DISP-NM				
DNM=5-221	03	MR-DATE-1Y	BL=2	1E9	DNM=5-221	DS 4C	DISP-NM				
DNM=5-244	02	MR-DATE-2	BL=2	1ED	DNM=5-244	DS 8C	DISP				
DNM=5-263	02	FILLER	BL=2	1ED	DNM=5-263	DS 0CL8	GROUP	R			
DNM=5-285	03	MR-DATE-2M	BL=2	1ED	DNM=5-285	DS 2C	DISP-NM				
DNM=5-305	03	MR-DATE-2D	BL=2	1EF	DNM=5-305	DS 2C	DISP-NM				
DNM=5-328	03	MR-DATE-2Y	BL=2	1F1	DNM=5-328	DS 4C	DISP-NM				
DNM=5-348	02	MR-DATE-3	BL=2	1F5	DNM=5-348	DS 8C	DISP				
DNM=5-370	02	FILLER	BL=2	1F5	DNM=5-370	DS 0CL8	GROUP	R			
DNM=5-392	03	MR-DATE-3M	BL=2	1F5	DNM=5-392	DS 2C	DISP-NM				
DNM=5-412	03	MR-DATE-3D	BL=2	1F7	DNM=5-412	DS 2C	DISP-NM				
DNM=5-432	03	MR-DATE-3Y	BL=2	1F9	DNM=5-432	DS 4C	DISP-NM				
DNM=5-452	02	MR-SORT-NAME	BL=2	1FD	DNM=5-452	DS 36C	DISP				
DNM=5-474	02	FILLER	BL=2	221	DNM=5-474	DS 15C	DISP				
DNM=6-000	01	PRINT-SWITCH	BL=2	230	DNM=6-000	DS 1C	DISP-NM				
DNM=6-022	RD	PRIMARY-KEY-REPORT			DNM=6-022						
DNM=6-052	01	CTL.LVL	BL=2	238	DNM=6-052	DS 2P	COMP-3				
DNM=6-069	01	TER.COD	BL=2	240	DNM=6-069	DS 1C	DISP				
DNM=6-086	01	FRS.GEN	BL=2	248	DNM=6-086	DS 1C	DISP				
DNM=6-103	01	LIN.SAV	BL=2	250	DNM=6-103	DS 2C	COMP				
DNM=6-120	01	FRS.GRP	BL=2	258	DNM=6-120	DS 1C	DISP				
DNM=6-137	01	ABS.LIN	BL=2	260	DNM=6-137	DS 2C	COMP				
DNM=6-154	01	LIN.NUM	BL=2	268	DNM=6-154	DS 2P	COMP-3				
DNM=6-174	01	LINE-COUNTER	BL=2	270	DNM=6-174	DS 3P	COMP-3				
DNM=6-196	01	PAGE-COUNTER	BL=2	278	DNM=6-196	DS 3P	COMP-3				
DNM=6-218	01	RPT.RCD	BL=2	280	DNM=6-218	DS 0CL133	GROUP				
DNM=6-238	02	CTL.CHR	BL=2	280	DNM=6-238	DS 1C	DISP				
DNM=6-255	02	RPT.LIN	BL=2	281	DNM=6-255	DS 132C	DISP				
DNM=6-272	02	E.0001	BL=2	281	DNM=6-272	DS 1C	DISP	R			
DNM=6-288	02	E.0002	BL=2	283	DNM=6-288	DS 7C	DISP-NM	R			
DNM=6-304	02	E.0003	BL=2	28B	DNM=6-304	DS 15C	DISP	R			

INTRNL NAME	LVL	SOURCE	NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=6-320	02	E.0004		BL=2	29B	DNM=6-320	DS 1C	DISP	R			
DNM=6-336	02	E.0005		BL=2	29D	DNM=6-336	DS 20C	DISP	R			
DNM=6-352	02	E.0006		BL=2	2B2	DNM=6-352	DS 35C	DISP	R			
DNM=6-368	02	E.0007		BL=2	2D6	DNM=6-368	DS 1C	DISP	R			
DNM=6-384	02	E.0008		BL=2	2D8	DNM=6-384	DS 1C	DISP	R			
DNM=6-400	02	E.0009		BL=2	2D9	DNM=6-400	DS 3C	DISP-NM	R			
DNM=6-416	02	E.0010		BL=2	2DC	DNM=6-416	DS 1C	DISP	R			
DNM=6-432	02	E.0011		BL=2	2DD	DNM=6-432	DS 3C	DISP-NM	R			
DNM=6-448	02	E.0012		BL=2	2E0	DNM=6-448	DS 1C	DISP	R			
DNM=6-464	02	E.0013		BL=2	2E1	DNM=6-464	DS 4C	DISP-NM	R			
DNM=6-480	02	E.0014		BL=2	2E6	DNM=6-480	DS 2C	DISP-NM	R			
DNM=7-000	02	E.0015		BL=2	2E8	DNM=7-000	DS 1C	DISP	R			
DNM=7-019	02	E.0016		BL=2	2E9	DNM=7-019	DS 2C	DISP-NM	R			
DNM=7-038	02	E.0017		BL=2	2EB	DNM=7-038	DS 1C	DISP	R			
DNM=7-057	02	E.0018		BL=2	2EC	DNM=7-057	DS 4C	DISP-NM	R			
DNM=7-073	02	E.0019		BL=2	2F1	DNM=7-073	DS 2C	DISP-NM	R			
DNM=7-092	02	E.0020		BL=2	2F3	DNM=7-092	DS 1C	DISP	R			
DNM=7-108	02	E.0021		BL=2	2F4	DNM=7-108	DS 2C	DISP-NM	R			
DNM=7-124	02	E.0022		BL=2	2F6	DNM=7-124	DS 1C	DISP	R			
DNM=7-140	02	E.0023		BL=2	2F7	DNM=7-140	DS 4C	DISP-NM	R			
DNM=7-156	02	E.0024		BL=2	28B	DNM=7-156	DS 36C	DISP	R			
DNM=7-175	02	E.0025		BL=2	2B2	DNM=7-175	DS 35C	DISP	R			
DNM=7-191	02	E.0026		BL=2	2E6	DNM=7-191	DS 2C	DISP-NM	R			
DNM=7-210	02	E.0027		BL=2	2E8	DNM=7-210	DS 1C	DISP	R			
DNM=7-226	02	E.0028		BL=2	2E9	DNM=7-226	DS 2C	DISP-NM	R			
DNM=7-242	02	E.0029		BL=2	2EB	DNM=7-242	DS 1C	DISP	R			
DNM=7-258	02	E.0030		BL=2	2EC	DNM=7-258	DS 4C	DISP-NM	R			
DNM=7-274	02	E.0031		BL=2	281	DNM=7-274	DS 6C	NM-EDIT	R			
DNM=7-301	02	E.0032		BL=2	288	DNM=7-301	DS 22C	DISP	R			
DNM=7-317	01	N.0001		BL=2	308	DNM=7-317	DS 2C	COMP				
DNM=7-336	01	GRP.IND		BL=2	310	DNM=7-336	DS 0CL1	GROUP				
DNM=7-356	02	GP.0000		BL=2	310	DNM=7-356	DS 1C	DISP				

```
*STATISTICS*      SOURCE RECORDS =   330      DATA DIVISION STATEMENTS =    98      PROCEDURE DIVISION STATEMENTS =    40
*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		
282	IKF1080I-W	PERIOD PRECEDED BY SPACE.	ASSUME END OF SENTENCE.
323	IKF1080I-W	PERIOD PRECEDED BY SPACE.	ASSUME END OF SENTENCE.
327	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.
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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		

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*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
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F64-LEVEL LINKAGE EDITOR OPTIONS SPECIFIED LIST,XREF,LET
DEFAULT OPTION(S) USED - SIZE=(65536,38912)
IEW0000NAME VSREPT(R)00001902

CROSS REFERENCE TABLE

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
VSREPT	00	12F2								
SORTNAME	12F8	5B2								
ILBODSP0*	18B0	700								
ILBOSPA0*	1FB0	2D8								
ILBOSTP0*	2288	35								
			ILBOSTP1	229E						
VSAMIO *	22C0	D0A								
LOCATION	REFERS TO	SYMBOL	IN CONTROL SECTION		LOCATION	REFERS TO	SYMBOL	IN CONTROL SECTION		
718		ILBOSTP0	ILBOSTP0		71C		ILBOSPA0	ILBOSPA0		
720		VSAMIO	VSAMIO		724		ILBODSP0	ILBODSP0		
728		ILBOSTP1	ILBOSTP0		15A8		ILBOSTP0	ILBOSTP0		
15AC		ILBOSTP1	ILBOSTP0							
ENTRY ADDRESS		00								
TOTAL LENGTH		2FD0								
****VSREPT	NOW REPLACED IN DATA SET									
AUTHORIZATION CODE IS		0.								

COBUCL6 (J 957) - COBUC	.COB	ENDED,	CODE 0004,	21.363	13:38:54
COBUCL6 (J 957) - COBUCL	.COB	ENDED,	CODE 0000,	21.363	13:38:54
COBUCL6 (J 957) - COBUCL	.LKED	ENDED,	CODE 0000,	21.363	13:38:54