

J E S 2 J O B L O G

07.14.14 JOB 2948 IEF677I WARNING MESSAGE(S) FOR JOB ESDSAIXD ISSUED  
07.14.14 JOB 2948 \$HASP373 ESDSAIXD STARTED - INIT 3 - CLASS S - SYS HMVS  
07.14.14 JOB 2948 IEF403I ESDSAIXD - STARTED - TIME=07.14.14  
07.14.14 JOB 2948 IEFACTRT IDCAMS /IDCAMS /00:00:00.13/00:00:00.14/00000/ESDSAIXD  
07.14.14 JOB 2948 IEC130I SYSPUNCH DD STATEMENT MISSING  
07.14.14 JOB 2948 IEC130I SYSLIB DD STATEMENT MISSING  
07.14.14 JOB 2948 IEC130I SYSPUNCH DD STATEMENT MISSING  
07.14.14 JOB 2948 IEFACTRT COB /IKFCBL00/00:00:00.03/00:00:00.05/00000/ESDSAIXD  
07.14.14 JOB 2948 IEFACTRT LKED /IEWL /00:00:00.01/00:00:00.02/00000/ESDSAIXD  
07.14.14 JOB 2948 IEFACTRT GO /PGM=\*.DD/00:00:00.00/00:00:00.01/00000/ESDSAIXD  
07.14.15 JOB 2948 IEFACTRT IDCAMS2 /IDCAMS /00:00:00.14/00:00:00.16/00000/ESDSAIXD  
07.14.15 JOB 2948 IEC130I SYSPUNCH DD STATEMENT MISSING  
07.14.15 JOB 2948 IEC130I SYSPUNCH DD STATEMENT MISSING  
07.14.15 JOB 2948 IEFACTRT COB /IKFCBL00/00:00:00.06/00:00:00.09/00000/ESDSAIXD  
07.14.15 JOB 2948 IEFACTRT LKED /IEWL /00:00:00.01/00:00:00.03/00000/ESDSAIXD  
07.14.15 JOB 2948 IEFACTRT GO /PGM=\*.DD/00:00:00.03/00:00:00.05/00000/ESDSAIXD  
07.14.15 JOB 2948 IEF404I ESDSAIXD - ENDED - TIME=07.14.15  
07.14.15 JOB 2948 \$HASP395 ESDSAIXD ENDED

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

22 SEP 22 JOB EXECUTION DATE

786 CARDS READ

2,444 SYSOUT PRINT RECORDS

0 SYSOUT PUNCH RECORDS

0.00 MINUTES EXECUTION TIME

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1 //ESDSAIXD JOB (001),'ESDS AIX DEMO',CLASS=S,MSGCLASS=M JOB 2948
***
*** *****
*** * DEMONSTRATES USE OF ALTERNATE INDEXES TO ACCESS DATA *
*** * RECORDS STORED IN ESDS CLUSTER. STEPS BELOW ARE: *
*** * *
*** * IDCAMS1: DELETE/DEFINE ESDS CLUSTER FOR DATA *
*** * COBUCLG1: LOAD TEST DATA INTO ESDS CLUSTER *
*** * IDCAMS2: DEFINE/BUILD ALTERNATE INDEXES & PATHS *
*** * COBUCLG2: READ DATA USING EACH INDEX *
*** * *
*** *****
2 //IDCAMS EXEC PGM=IDCAMS,REGION=4096K
3 //SYSPRINT DD SYSOUT=*
4 //SYSIN DD *
5 //COBUCLG1 EXEC COBUCLG,REGION.GO=2048K,CPARM1='LOAD,DMAP'
6 XXCOBUCLG PROC CPARM1='LOAD,SUPMAP', 100010000
  XX CPARM2='SIZE=2048K,BUF=1024K' 00020000
7 XXCOB EXEC PGM=IKFCBL00,REGION=4096K, 00040001
  XX PARM='&CPARM1,&CPARM2' 00050001
8 XXSTEPLIB DD DSN=SYSC.LINKLIB,DISP=SHR 00051001
9 XXSYSPRINT DD SYSOUT=* 00060000
10 XXSYSUT1 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00070000
11 XXSYSUT2 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00080000
12 XXSYSUT3 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00090000
13 XXSYSUT4 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00100000
14 XXSYSLIN DD DSN=&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA, 00110000
  XX SPACE=(80,(500,100)) 00120000
15 //COB.SYSIN DD *
16 XXLKED EXEC PGM=IEWL,PARM='LIST,XREF,LET',COND=(5,LT,COB),REGION=96K 00130000
17 XXSYSLIN DD DSN=&LOADSET,DISP=(OLD,DELETE) 00140000
18 XX DD DDNAME=SYSIN 00150000
19 XXSYSLMOD DD DSN=&GODATA(RUN),DISP=(NEW,PASS),UNIT=SYSDA, 00160000
  XX SPACE=(1024,(50,20,1)) 00170000
20 XXSYSLIB DD DSN=SYSC.COBLIB,DISP=SHR 00180000
21 XXSYSUT1 DD UNIT=SYSDA,SPACE=(1024,(50,20)) 00190000
22 XXSYSPRINT DD SYSOUT=* 00200000
23 XXGO EXEC PGM=*.LKED.SYSLMOD,COND=((5,LT,COB),(5,LT,LKED)) 00210000
24 //GO.SYSPRINT DD SYSOUT=*
25 //GO.SYSOUT DD SYSOUT=*
26 //GO.SYSUDUMP DD SYSOUT=*
27 //GO.SYSUT1 DD *
28 //GO.SYSUT2 DD DISP=(NEW,PASS),DSN=&&JOINED,UNIT=SYSDA,
  // DCB=(LRECL=148,BLKSIZE=1480,RECFM=FB),
  // SPACE=(TRK,(50))
29 //IDCAMS2 EXEC PGM=IDCAMS,REGION=4096K
30 //SYSPRINT DD SYSOUT=*
31 //SYSUT1 DD DISP=(OLD,DELETE),DSN=&&JOINED
32 //SYSIN DD *
33 //COBUCLG2 EXEC COBUCLG,REGION.GO=2048K,CPARM1='LOAD,DMAP,LIB'
34 XXCOBUCLG PROC CPARM1='LOAD,SUPMAP', 100010000
  XX CPARM2='SIZE=2048K,BUF=1024K' 00020000
35 XXCOB EXEC PGM=IKFCBL00,REGION=4096K, 00040001
  XX PARM='&CPARM1,&CPARM2' 00050001
36 XXSTEPLIB DD DSN=SYSC.LINKLIB,DISP=SHR 00051001
37 XXSYSPRINT DD SYSOUT=* 00060000
38 XXSYSUT1 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00070000
39 XXSYSUT2 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00080000
40 XXSYSUT3 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00090000
41 XXSYSUT4 DD UNIT=SYSDA,SPACE=(460,(700,100)) 00100000

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42  XXSYSLIN DD DSN=&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA,      00110000
    XX          SPACE=(80,(500,100))                          00120000
43  //COB.SYSIN DD *
44  //COB.SYSLIB DD DISP=SHR,DSN=SYSC.VSAMIO.SOURCE
45  XXLKED EXEC PGM=IEWL,PARM='LIST,XREF,LET',COND=(5,LT,COB),REGION=96K  00130000
46  XXSYSLIN DD DSN=&LOADSET,DISP=(OLD,DELETE)                00140000
47  XX DD DDNAME=SYSIN                                       00150000
48  XXSYSLMOD DD DSN=&GODATA(RUN),DISP=(NEW,PASS),UNIT=SYSDA,  00160000
    XX          SPACE=(1024,(50,20,1))                      00170000
49  //LKED.SYSLIB DD DISP=SHR,DSN=SYSC.LINKLIB
    X/SYSLIB DD   DSN=SYSC.COBLIB,DISP=SHR                  00180000
50  //          DD DISP=SHR,DSN=SYSC.COBLIB
51  XXSYSUT1 DD UNIT=SYSDA,SPACE=(1024,(50,20))              00190000
52  XXSYSPRINT DD SYSOUT=*                                   00200000
53  XXGO EXEC PGM=*.LKED.SYSLMOD,COND=((5,LT,COB),(5,LT,LKED)) 00210000
54  //GO.SYSPRINT DD SYSOUT=*
55  //GO.SYSOUT DD SYSOUT=*
56  //GO.SYSUDUMP DD SYSOUT=*
57  //GO.ESAKEY1 DD DISP=SHR,DSN=JAY01.MASTER.IDNUMBER.IX
58  //GO.ESAKEY2 DD DISP=SHR,DSN=JAY01.MASTER.NAME.IX
59  //GO.ESAKEY3 DD DISP=SHR,DSN=JAY01.MASTER.CITY.IX
60  //GO.ESAKEY4 DD DISP=SHR,DSN=JAY01.MASTER.EDATE.IX
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STMT NO. MESSAGE

7 IEF653I SUBSTITUTION JCL - PARM='LOAD,DMAP,SIZE=2048K,BUF=1024K'  
35 IEF653I SUBSTITUTION JCL - PARM='LOAD,DMAP,LIB,SIZE=2048K,BUF=1024K'  
23 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED  
53 IEF686I DDNAME REFERRED TO ON DDNAME KEYWORD IN PRIOR STEP WAS NOT RESOLVED  
IEF236I ALLOC. FOR ESDSAIXD IDCAMS  
IEF237I JES2 ALLOCATED TO SYSPRINT  
IEF237I JES2 ALLOCATED TO SYSIN  
IEF237I 180 ALLOCATED TO SYS00001  
IEF237I 180 ALLOCATED TO SYS00002  
IEF285I JAY01.MASTER.ESDS KEPT \*-----0  
IEF285I VOL SER NOS= PUB000.  
IEF237I 180 ALLOCATED TO SYS00003  
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000003 KEPT \*-----0  
IEF285I VOL SER NOS= PUB000.  
IEF142I ESDSAIXD IDCAMS - STEP WAS EXECUTED - COND CODE 0000  
IEF285I JES2.JOB02948.SO0106 SYSOUT  
IEF285I JES2.JOB02948.SI0101 SYSIN  
IEF285I UCPUB000 KEPT \*-----0  
IEF285I VOL SER NOS= PUB000.  
IEF373I STEP /IDCAMS / START 22265.0714  
IEF374I STEP /IDCAMS / STOP 22265.0714 CPU 0MIN 00.12SEC SRB 0MIN 00.01SEC VIRT 280K SYS 252K  
\*\*\*\* JOB NAME: ESDSAIXD JOBCARD READ 2022/265 07:14:14 370/148 VS2 R03.8 HMVS \*\*\*\*\*  
\*  
\* STEP NUMBER: 1 USER CORE: 280K START TIME: 07:14:14 CPU TIME: 00:00:00.13 ACTIVE TIME: 00:00:00.14 \*  
\* STEP NAME: IDCAMS SYSTEM CORE: 252K STOP TIME: 07:14:14 SRB TIME: 00:00:00.01 ALLOC TIME: 07:14:14 \*  
\* PROGRAM NAME: IDCAMS REGION SIZE: 4096K ELAPSED TIME: 00:00:00.14 TCB TIME: 00:00:00.12 PROGRAM LOAD: 07:14:14 \*  
\* CONDITION CODE: 00000 PERFORMANCE GROUP: 003 \*  
\* JES2 CARDS: 2 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT \*  
\* 96 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 \*  
\* 180/D3380 0 \*  
\*\*\*\*\*  
IEF236I ALLOC. FOR ESDSAIXD COB COBUCLG1  
IEF237I 253 ALLOCATED TO STEPLIB  
IEF237I 253 ALLOCATED TO SYS00066  
IEF237I JES2 ALLOCATED TO SYSPRINT  
IEF237I 391 ALLOCATED TO SYSUT1  
IEF237I 370 ALLOCATED TO SYSUT2  
IEF237I 252 ALLOCATED TO SYSUT3  
IEF237I 251 ALLOCATED TO SYSUT4  
IEF237I 380 ALLOCATED TO SYSLIN  
IEF237I JES2 ALLOCATED TO SYSIN  
IEC130I SYSPUNCH DD STATEMENT MISSING  
IEC130I SYSLIB DD STATEMENT MISSING  
IEC130I SYSPUNCH DD STATEMENT MISSING  
IEF142I ESDSAIXD COB COBUCLG1 - STEP WAS EXECUTED - COND CODE 0000  
IEF285I SYSC.LINKLIB KEPT \*-----0  
IEF285I VOL SER NOS= SYSCP.K.  
IEF285I UCSYSCP.K KEPT \*-----0  
IEF285I VOL SER NOS= SYSCP.K.  
IEF285I JES2.JOB02948.SO0107 SYSOUT  
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000001 DELETED \*-----6  
IEF285I VOL SER NOS= WORK03.  
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000002 DELETED \*-----6  
IEF285I VOL SER NOS= MVS370.  
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000003 DELETED \*-----9  
IEF285I VOL SER NOS= WORK01.  
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000004 DELETED \*-----3

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IEF285I VOL SER NOS= WORK00.
IEF285I SYS22265.T071414.RA000.ESDSAIXD.LOADSET PASSED *-----62
IEF285I VOL SER NOS= MVS380.
IEF285I JES2.JOB02948.SI0102 SYSIN
IEF373I STEP /COB / START 22265.0714
IEF374I STEP /COB / STOP 22265.0714 CPU 0MIN 00.02SEC SRB 0MIN 00.01SEC VIRT 2076K SYS 248K
*****
*
* STEP NUMBER: 2 USER CORE: 2076K START TIME: 07:14:14 CPU TIME: 00:00:00.03 ACTIVE TIME: 00:00:00.04 *
* STEP NAME: COB SYSTEM CORE: 248K STOP TIME: 07:14:14 SRB TIME: 00:00:00.01 ALLOC TIME: 07:14:14 *
* PROGRAM NAME: IKFCBL00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.05 TCB TIME: 00:00:00.02 PROGRAM LOAD: 07:14:14 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 003 *
* JES2 CARDS: 9 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 467 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 0 391/D3390 6 370/D3375 6 252/D3350 9 251/D3350 3 *
* 380/D3380 62 *
*****
IEF236I ALLOC. FOR ESDSAIXD LKED COBUCLG1
IEF237I 380 ALLOCATED TO SYSLIN
IEF237I DMY ALLOCATED TO
IEF237I 252 ALLOCATED TO SYSLMOD
IEF237I 253 ALLOCATED TO SYSLIB
IEF237I 253 ALLOCATED TO SYS00068
IEF237I 391 ALLOCATED TO SYSUT1
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF142I ESDSAIXD LKED COBUCLG1 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYS22265.T071414.RA000.ESDSAIXD.LOADSET DELETED *-----63
IEF285I VOL SER NOS= MVS380.
IEF285I SYS22265.T071414.RA000.ESDSAIXD.GODATA PASSED *-----10
IEF285I VOL SER NOS= WORK01.
IEF285I SYSC.COBLIB KEPT *-----17
IEF285I VOL SER NOS= SYSCPK.
IEF285I UCSYSCPK KEPT *-----0
IEF285I VOL SER NOS= SYSCPK.
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000005 DELETED *-----0
IEF285I VOL SER NOS= WORK03.
IEF285I JES2.JOB02948.SO0108 SYSOUT
IEF373I STEP /LKED / START 22265.0714
IEF374I STEP /LKED / STOP 22265.0714 CPU 0MIN 00.01SEC SRB 0MIN 00.00SEC VIRT 96K SYS 192K
*****
*
* STEP NUMBER: 3 USER CORE: 96K START TIME: 07:14:14 CPU TIME: 00:00:00.01 ACTIVE TIME: 00:00:00.01 *
* STEP NAME: LKED SYSTEM CORE: 192K STOP TIME: 07:14:14 SRB TIME: 00:00:00.00 ALLOC TIME: 07:14:14 *
* PROGRAM NAME: IEWL REGION SIZE: 96K ELAPSED TIME: 00:00:00.02 TCB TIME: 00:00:00.01 PROGRAM LOAD: 07:14:14 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 003 *
* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 468 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 63 252/D3350 10 253/D3350 17 253/D3350 0 391/D3390 0 *
*****
IEF236I ALLOC. FOR ESDSAIXD GO COBUCLG1
IEF237I 252 ALLOCATED TO PGM=*.DD
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF237I JES2 ALLOCATED TO SYSUT1
IEF237I 380 ALLOCATED TO SYSUT2
IEF142I ESDSAIXD GO COBUCLG1 - STEP WAS EXECUTED - COND CODE 0000

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IEF285I  SYS22265.T071414.RA000.ESDSAIXD.GODATA      KEPT      *-----0
IEF285I  VOL SER NOS= WORK01.
IEF285I  JES2.JOB02948.S00109                        SYSOUT
IEF285I  JES2.JOB02948.S00110                        SYSOUT
IEF285I  JES2.JOB02948.S00111                        SYSOUT
IEF285I  JES2.JOB02948.SI0103                        SYSIN
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.JOINED     PASSED     *-----5
IEF285I  VOL SER NOS= MVS380.
IEF373I  STEP /GO          / START 22265.0714
IEF374I  STEP /GO          / STOP  22265.0714 CPU    0MIN 00.00SEC SRB    0MIN 00.00SEC VIRT   16K SYS   192K
*****
*
* STEP NUMBER:          4  USER CORE:          16K  START TIME:    07:14:14    CPU TIME:      00:00:00.00  ACTIVE TIME:  00:00:00.00 *
* STEP NAME:           GO    SYSTEM CORE:      192K  STOP TIME:     07:14:14    SRB TIME:     00:00:00.00  ALLOC TIME:   07:14:14 *
* PROGRAM NAME:       PGM=*.DD REGION SIZE:    2048K ELAPSED TIME: 00:00:00.01  TCB TIME:     00:00:00.00  PROGRAM LOAD: 07:14:14 *
* CONDITION CODE:    00000 PERFORMANCE GROUP: 003
*
* JES2 CARDS:         10          SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT *
*                               51          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 *
* 252/D3350            0 380/D3380          5
*****
IEF236I  ALLOC. FOR ESDSAIXD IDCAMS2
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF237I  380 ALLOCATED TO SYSUT1
IEF237I  JES2 ALLOCATED TO SYSIN
IEF237I  180 ALLOCATED TO SYS00006
IEF237I  180 ALLOCATED TO SYS00005
IEF285I  JAY01.MASTER.ESDS                            KEPT      *-----17
IEF285I  VOL SER NOS= PUB000.
IEF237I  180 ALLOCATED TO SYS00007
IEF237I  180 ALLOCATED TO SYS00009
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.R0000007     KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.R0000009     KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF237I  180 ALLOCATED TO SYS00011
IEF237I  180 ALLOCATED TO SYS00012
IEF285I  JAY01.MASTER.ALTIX1                          KEPT      *-----17
IEF285I  VOL SER NOS= PUB000.
IEF285I  JAY01.MASTER.ESDS                            KEPT      *-----2
IEF285I  VOL SER NOS= PUB000.
IEF237I  180 ALLOCATED TO SYS00013
IEF237I  180 ALLOCATED TO SYS00015
IEF285I  SYS22265.T071415.RA000.ESDSAIXD.R0000013     KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF285I  SYS22265.T071415.RA000.ESDSAIXD.R0000015     KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF237I  180 ALLOCATED TO SYS00017
IEF237I  180 ALLOCATED TO SYS00018
IEF285I  JAY01.MASTER.ALTIX2                          KEPT      *-----17
IEF285I  VOL SER NOS= PUB000.
IEF285I  JAY01.MASTER.ESDS                            KEPT      *-----2
IEF285I  VOL SER NOS= PUB000.
IEF237I  180 ALLOCATED TO SYS00019
IEF237I  180 ALLOCATED TO SYS00021
IEF285I  SYS22265.T071415.RA000.ESDSAIXD.R0000019     KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF285I  SYS22265.T071415.RA000.ESDSAIXD.R0000021     KEPT      *-----0
IEF285I  VOL SER NOS= PUB000.
IEF237I  180 ALLOCATED TO SYS00023

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IEF237I 180 ALLOCATED TO SYS00024
IEF285I JAY01.MASTER.ALTIX3 KEPT *-----15
IEF285I VOL SER NOS= PUB000.
IEF285I JAY01.MASTER.ESDS KEPT *-----2
IEF285I VOL SER NOS= PUB000.
IEF237I 180 ALLOCATED TO SYS00025
IEF237I 180 ALLOCATED TO SYS00027
IEF285I SYS22265.T071415.RA000.ESDSAIXD.R0000025 KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF285I SYS22265.T071415.RA000.ESDSAIXD.R0000027 KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF237I 180 ALLOCATED TO SYS00029
IEF237I 180 ALLOCATED TO SYS00030
IEF285I JAY01.MASTER.ALTIX4 KEPT *-----17
IEF285I VOL SER NOS= PUB000.
IEF285I JAY01.MASTER.ESDS KEPT *-----2
IEF285I VOL SER NOS= PUB000.
IEF142I ESDSAIXD IDCAMS2 - STEP WAS EXECUTED - COND CODE 0000
IEF285I JES2.JOB02948.SO0112 SYSOUT
IEF285I SYS22265.T071414.RA000.ESDSAIXD.JOINED DELETED *-----6
IEF285I VOL SER NOS= MVS380.
IEF285I JES2.JOB02948.SI0104 SYSIN
IEF285I UCPUB000 KEPT *-----0
IEF285I VOL SER NOS= PUB000.
IEF373I STEP /IDCAMS2 / START 22265.0714
IEF374I STEP /IDCAMS2 / STOP 22265.0714 CPU 0MIN 00.13SEC SRB 0MIN 00.01SEC VIRT 388K SYS 260K
*****
*
* STEP NUMBER: 5 USER CORE: 388K START TIME: 07:14:14 CPU TIME: 00:00:00.14 ACTIVE TIME: 00:00:00.16 *
* STEP NAME: IDCAMS2 SYSTEM CORE: 260K STOP TIME: 07:14:15 SRB TIME: 00:00:00.01 ALLOC TIME: 07:14:14 *
* PROGRAM NAME: IDCAMS REGION SIZE: 4096K ELAPSED TIME: 00:00:00.16 TCB TIME: 00:00:00.13 PROGRAM LOAD: 07:14:14 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 003 *
* JES2 CARDS: 13 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 619 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 6 180/D3380 0 *
*****
IEF236I ALLOC. FOR ESDSAIXD COB COBUCLG2
IEF237I 253 ALLOCATED TO STEPLIB
IEF237I 253 ALLOCATED TO SYS00070
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I 391 ALLOCATED TO SYSUT1
IEF237I 251 ALLOCATED TO SYSUT2
IEF237I 380 ALLOCATED TO SYSUT3
IEF237I 252 ALLOCATED TO SYSUT4
IEF237I 370 ALLOCATED TO SYSLIN
IEF237I JES2 ALLOCATED TO SYSIN
IEF237I 253 ALLOCATED TO SYSLIB
IEC130I SYSPUNCH DD STATEMENT MISSING
IEC130I SYSPUNCH DD STATEMENT MISSING
IEF142I ESDSAIXD COB COBUCLG2 - STEP WAS EXECUTED - COND CODE 0000
IEF285I SYSC.LINKLIB KEPT *-----0
IEF285I VOL SER NOS= SYSCP. UCSYSCP. KEPT *-----0
IEF285I VOL SER NOS= SYSCP.
IEF285I JES2.JOB02948.SO0113 SYSOUT
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000006 DELETED *-----6
IEF285I VOL SER NOS= WORK03.
IEF285I SYS22265.T071414.RA000.ESDSAIXD.R0000007 DELETED *-----6
IEF285I VOL SER NOS= WORK00.

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IEF285I  SYS22265.T071414.RA000.ESDSAIXD.R0000008  DELETED  *-----9
IEF285I  VOL SER NOS= MVS380.
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.R0000009  DELETED  *-----8
IEF285I  VOL SER NOS= WORK01.
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.LOADSET  PASSED  *-----118
IEF285I  VOL SER NOS= MVS370.
IEF285I  JES2.JOB02948.SI0105  SYSIN
IEF285I  SYSC.VSAMIO.SOURCE  KEPT  *-----15
IEF285I  VOL SER NOS= SYSCPK.
IEF373I  STEP /COB  / START 22265.0714
IEF374I  STEP /COB  / STOP 22265.0714 CPU 0MIN 00.05SEC SRB 0MIN 00.01SEC VIRT 2076K SYS 252K
*****
*
* STEP NUMBER: 6 USER CORE: 2076K START TIME: 07:14:15 CPU TIME: 00:00:00.06 ACTIVE TIME: 00:00:00.07 *
* STEP NAME: COB SYSTEM CORE: 252K STOP TIME: 07:14:15 SRB TIME: 00:00:00.01 ALLOC TIME: 07:14:15 *
* PROGRAM NAME: IKFCBL00 REGION SIZE: 4096K ELAPSED TIME: 00:00:00.09 TCB TIME: 00:00:00.05 PROGRAM LOAD: 07:14:15 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 003
* JES2 CARDS: 39 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 952 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 0 391/D3390 6 251/D3350 6 380/D3380 9 252/D3350 8 *
* 370/D3375 118 253/D3350 15
*****
IEF236I  ALLOC. FOR ESDSAIXD LKED COBUCLG2
IEF237I  370 ALLOCATED TO SYSLIN
IEF237I  DMY ALLOCATED TO
IEF237I  251 ALLOCATED TO SYSLMOD
IEF237I  253 ALLOCATED TO SYSLIB
IEF237I  253 ALLOCATED TO
IEF237I  253 ALLOCATED TO SYS00072
IEF237I  391 ALLOCATED TO SYSUT1
IEF237I  JES2 ALLOCATED TO SYSPRINT
IEF142I  ESDSAIXD LKED COBUCLG2 - STEP WAS EXECUTED - COND CODE 0000
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.LOADSET  DELETED  *-----119
IEF285I  VOL SER NOS= MVS370.
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.GODATA  PASSED  *-----12
IEF285I  VOL SER NOS= WORK00.
IEF285I  SYSC.LINKLIB  KEPT  *-----27
IEF285I  VOL SER NOS= SYSCPK.
IEF285I  SYSC.COBLIB  KEPT  *-----0
IEF285I  VOL SER NOS= SYSCPK.
IEF285I  UCSYSCPK  KEPT  *-----0
IEF285I  VOL SER NOS= SYSCPK.
IEF285I  SYS22265.T071414.RA000.ESDSAIXD.R0000010  DELETED  *-----0
IEF285I  VOL SER NOS= WORK03.
IEF285I  JES2.JOB02948.SO0114  SYSOUT
IEF373I  STEP /LKED  / START 22265.0714
IEF374I  STEP /LKED  / STOP 22265.0714 CPU 0MIN 00.01SEC SRB 0MIN 00.00SEC VIRT 96K SYS 236K
*****
*
* STEP NUMBER: 7 USER CORE: 96K START TIME: 07:14:15 CPU TIME: 00:00:00.01 ACTIVE TIME: 00:00:00.02 *
* STEP NAME: LKED SYSTEM CORE: 236K STOP TIME: 07:14:15 SRB TIME: 00:00:00.00 ALLOC TIME: 07:14:15 *
* PROGRAM NAME: IEWL REGION SIZE: 96K ELAPSED TIME: 00:00:00.03 TCB TIME: 00:00:00.01 PROGRAM LOAD: 07:14:15 *
* CONDITION CODE: 00000 PERFORMANCE GROUP: 003
* JES2 CARDS: 0 SERVICE UNITS PAGES IN/OUT # SWAPS PAGES SWAP IN/OUT VIO PAGES IN/OUT *
* 810 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 *
* 370/D3375 119 251/D3350 12 253/D3350 27 253/D3350 0 253/D3350 0 391/D3390 0 *
*****

```



```

IEF236I ALLOC. FOR ESDSAIXD GO COBUCLG2
IEF237I 251 ALLOCATED TO PGM=*.DD
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I JES2 ALLOCATED TO SYSOUT
IEF237I JES2 ALLOCATED TO SYSUDUMP
IEF237I 180 ALLOCATED TO ESAKEY1
IEF237I 180 ALLOCATED TO SYS00074
IEF237I 180 ALLOCATED TO ESAKEY2
IEF237I 180 ALLOCATED TO ESAKEY3
IEF237I 180 ALLOCATED TO ESAKEY4
IEF142I ESDSAIXD GO COBUCLG2 - STEP WAS EXECUTED - COND CODE 0000
IEF285I   SYS22265.T071414.RA000.ESDSAIXD.GODATA      KEPT      *-----0
IEF285I   VOL SER NOS= WORK00.
IEF285I   JES2.JOB02948.S00115                      SYSOUT
IEF285I   JES2.JOB02948.S00116                      SYSOUT
IEF285I   JES2.JOB02948.S00117                      SYSOUT
IEF285I   JAY01.MASTER.IDNUMBER.IX                 KEPT      *-----26
IEF285I   VOL SER NOS= PUB000.
IEF285I   UCPUB000                                  KEPT      *-----0
IEF285I   VOL SER NOS= PUB000.
IEF285I   JAY01.MASTER.NAME.IX                     KEPT      *-----27
IEF285I   VOL SER NOS= PUB000.
IEF285I   JAY01.MASTER.CITY.IX                     KEPT      *-----26
IEF285I   VOL SER NOS= PUB000.
IEF285I   JAY01.MASTER.EDATE.IX                     KEPT      *-----26
IEF285I   VOL SER NOS= PUB000.
IEF373I STEP /GO      / START 22265.0714
IEF374I STEP /GO      / STOP 22265.0714 CPU      0MIN 00.03SEC SRB      0MIN 00.00SEC VIRT      116K SYS      196K
*****
*
* STEP NUMBER:          8  USER CORE:          116K  START TIME:    07:14:15      CPU TIME:      00:00:00.03  ACTIVE TIME:  00:00:00.04 *
* STEP NAME:           GO   SYSTEM CORE:       196K  STOP TIME:    07:14:15      SRB TIME:      00:00:00.00  ALLOC TIME:   07:14:15 *
* PROGRAM NAME:       PGM=*.DD  REGION SIZE:   2048K  ELAPSED TIME: 00:00:00.05  TCB TIME:     00:00:00.03  PROGRAM LOAD: 07:14:15 *
* CONDITION CODE:    00000  PERFORMANCE GROUP: 003
* JES2 CARDS:        0          SERVICE UNITS  PAGES IN/OUT  # SWAPS  PAGES SWAP IN/OUT  VIO PAGES IN/OUT *
*                   606          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            0 180/D3380          26 180/D3380            0 180/D3380          27 180/D3380          26 180/D3380          26 *
*****
IEF237I 252 ALLOCATED TO SYS00031
IEF285I   SYS22265.T071415.RA000.ESDSAIXD.R0000031    KEPT      *-----0
IEF285I   VOL SER NOS= WORK01.
IEF285I   SYS22265.T071414.RA000.ESDSAIXD.GODATA      DELETED
IEF285I   VOL SER NOS= WORK01.
IEF237I 251 ALLOCATED TO SYS00033
IEF285I   SYS22265.T071415.RA000.ESDSAIXD.R0000033    KEPT      *-----0
IEF285I   VOL SER NOS= WORK00.
IEF285I   SYS22265.T071414.RA000.ESDSAIXD.GODATA      DELETED
IEF285I   VOL SER NOS= WORK00.
IEF375I JOB /ESDSAIXD/ START 22265.0714
IEF376I JOB /ESDSAIXD/ STOP 22265.0714 CPU      0MIN 00.37SEC SRB      0MIN 00.04SEC

```

```
/* DELETE ESDS CLUSTER, IF IT EXISTS */
```

```
DELETE JAY01.MASTER.ESDS CLUSTER PURGE
```

```
IDC0550I ENTRY (R) JAY01.MASTER.IDNUMBER.IX DELETED
```

```
IDC0550I ENTRY (D) JAY01.MASTER.ALTIX1.DATA DELETED
```

```
IDC0550I ENTRY (I) JAY01.MASTER.ALTIX1.INDEX DELETED
```

```
IDC0550I ENTRY (G) JAY01.MASTER.ALTIX1 DELETED
```

```
IDC0550I ENTRY (R) JAY01.MASTER.NAME.IX DELETED
```

```
IDC0550I ENTRY (D) JAY01.MASTER.ALTIX2.DATA DELETED
```

```
IDC0550I ENTRY (I) JAY01.MASTER.ALTIX2.INDEX DELETED
```

```
IDC0550I ENTRY (G) JAY01.MASTER.ALTIX2 DELETED
```

```
IDC0550I ENTRY (R) JAY01.MASTER.CITY.IX DELETED
```

```
IDC0550I ENTRY (D) JAY01.MASTER.ALTIX3.DATA DELETED
```

```
IDC0550I ENTRY (I) JAY01.MASTER.ALTIX3.INDEX DELETED
```

```
IDC0550I ENTRY (G) JAY01.MASTER.ALTIX3 DELETED
```

```
IDC0550I ENTRY (R) JAY01.MASTER.EDATE.IX DELETED
```

```
IDC0550I ENTRY (D) JAY01.MASTER.ALTIX4.DATA DELETED
```

```
IDC0550I ENTRY (I) JAY01.MASTER.ALTIX4.INDEX DELETED
```

```
IDC0550I ENTRY (G) JAY01.MASTER.ALTIX4 DELETED
```

```
IDC0550I ENTRY (D) JAY01.MASTER.ESDS.DATA DELETED
```

```
IDC0550I ENTRY (C) JAY01.MASTER.ESDS DELETED
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
IF LASTCC = 8 THEN DO
```

```
SET MAXCC = 0
```

```
SET LASTCC = 0
```

END

```
/* DEFINE ESDS CLUSTER */
```

```
DEFINE CLUSTER (
    NAME(JAY01.MASTER.ESDS)
    VOLUMES(PUB000)
    UNIQUE
    RECORDSIZE(148 148)
    RECORDS(50)
    NONINDEXED )
DATA (
    NAME(JAY01.MASTER.ESDS.DATA) )
```

IDC0508I DATA ALLOCATION STATUS FOR VOLUME PUB000 IS 0

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0

1

```
00001 000100 IDENTIFICATION DIVISION.
00002 000200 PROGRAM-ID. JOINREC.
00003 000300 AUTHOR. JAY MOSELEY.
00004 000400 DATE-WRITTEN. SEPTEMBER, 2022.
00005 000500 DATE-COMPILED. SEP 22, 2022
00007 000600 REMARKS. THIS PROGRAM READS 2 CARDS FROM SYSUT1, CONCATENATES THE
00008 000700         SECOND TO THE END OF THE FIRST, THEN WRITES THE NEW
00009 000800         RECORD TO SYSUT2.
00010 000900
00011 001000 ENVIRONMENT DIVISION.
00012 001100 CONFIGURATION SECTION.
00013 001200 SOURCE-COMPUTER. IBM-370.
00014 001300 OBJECT-COMPUTER. IBM-370.
00015 001400
00016 001500 INPUT-OUTPUT SECTION.
00017 001600 FILE-CONTROL.
00018 001700
00019 001800     SELECT INPUT-FILE
00020 001900     ASSIGN TO UT-S-SYSUT1.
00021 002000
00022 002100     SELECT OUTPUT-FILE
00023 002200     ASSIGN TO UT-S-SYSUT2.
00024 002300
00025 002400 DATA DIVISION.
00026 002500 FILE SECTION.
00027 002600
00028 002700 FD  INPUT-FILE
00029 002800     LABEL RECORDS ARE STANDARD
00030 002900     RECORDING MODE IS F
00031 003000     RECORD CONTAINS 80 CHARACTERS
00032 003100     BLOCK CONTAINS 0 RECORDS
00033 003200     DATA RECORD IS INPUT-RECD.
00034 003300 01  INPUT-RECD             PIC X(80).
00035 003400
00036 003500 FD  OUTPUT-FILE
00037 003600     LABEL RECORDS ARE STANDARD
00038 003700     RECORDING MODE IS F
00039 003800     RECORD CONTAINS 148 CHARACTERS
00040 003900     BLOCK CONTAINS 0 RECORDS
00041 004000     DATA RECORD IS OUTPUT-RECD.
00042 004100 01  OUTPUT-RECD           PIC X(148).
00043 004200
00044 004300 WORKING-STORAGE SECTION.
00045 004400
00046 004500 01  END-OF-INPUT-SWITCH     PIC X VALUE 'N'.
00047 004600     88  END-OF-INPUT        VALUE 'Y'.
00048 004700
00049 004800 01  WS-RECORD.
00050 004900     02  WS-RECORD-1ST      PIC X(80).
00051 005000     02  WS-RECORD-2ND      PIC X(68).
00052 005100
00053 005200 01  WS-EDIT-1             PIC 9999.
00054 005300
00055 005400 01  WS-COUNTER-1         PIC 9(8) VALUE ZERO.
```

```
00056 005500 01 WS-COUNTER-2          PIC 9(8) VALUE ZERO.
00057 005600
00058 005700 PROCEDURE DIVISION.
00059 005800
00060 005900 000-INITIATE.
00061 006000     OPEN INPUT INPUT-FILE
00062 006100         OUTPUT OUTPUT-FILE.
00063 006200
00064 006300 000-PROCESS.
00065 006400     PERFORM 100-PROCESS-INPUT THRU 199-EXIT
00066 006500         UNTIL END-OF-INPUT.
00067 006600
00068 006700 000-TERMINATE.
00069 006800     CLOSE INPUT-FILE, OUTPUT-FILE.
00070 006900     MOVE WS-COUNTER-1 TO WS-EDIT-1.
00071 007000     DISPLAY WS-EDIT-1 ' RECORDS READ'.
00072 007100     MOVE WS-COUNTER-2 TO WS-EDIT-1.
00073 007200     DISPLAY WS-EDIT-1 ' RECORDS WRITTEN'.
00074 007300     GOBACK.
00075 007400* ----- PROGRAM EXIT POINT
00076 007500
00077 007600 100-PROCESS-INPUT.
00078 007700     READ INPUT-FILE AT END MOVE 'Y' TO END-OF-INPUT-SWITCH.
00079 007800     IF END-OF-INPUT GO TO 199-EXIT.
00080 007900     ADD 1 TO WS-COUNTER-1.
00081 008000     MOVE INPUT-RECD TO WS-RECORD-1ST.
00082 008100     READ INPUT-FILE AT END MOVE 'Y' TO END-OF-INPUT-SWITCH.
00083 008200     IF END-OF-INPUT GO TO 199-EXIT.
00084 008300     ADD 1 TO WS-COUNTER-1.
00085 008400     MOVE INPUT-RECD TO WS-RECORD-2ND.
00086 008500     WRITE OUTPUT-RECD FROM WS-RECORD.
00087 008600     ADD 1 TO WS-COUNTER-2.
00088 008700 199-EXIT.
00089 008800     EXIT.
00090 008900
00091 009000* ----- PERFORM EXIT POINT
```

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=1-128	FD	INPUT-FILE	DCB=01		DNM=1-128		QSAM				F
DNM=1-151	01	INPUT-RECD	BL=1	000	DNM=1-151	DS 80C	DISP				
DNM=1-174	FD	OUTPUT-FILE	DCB=02		DNM=1-174		QSAM				F
DNM=1-198	01	OUTPUT-RECD	BL=2	000	DNM=1-198	DS 148C	DISP				
DNM=1-219	01	END-OF-INPUT-SWITCH	BL=3	000	DNM=1-219	DS 1C	DISP				
DNM=1-251	88	END-OF-INPUT			DNM=1-251						
DNM=1-274	01	WS-RECORD	BL=3	008	DNM=1-274	DS 0CL148	GROUP				
DNM=1-296	02	WS-RECORD-1ST	BL=3	008	DNM=1-296	DS 80C	DISP				
DNM=1-319	02	WS-RECORD-2ND	BL=3	058	DNM=1-319	DS 68C	DISP				
DNM=1-342	01	WS-EDIT-1	BL=3	0A0	DNM=1-342	DS 4C	DISP-NM				
DNM=1-361	01	WS-COUNTER-1	BL=3	0A8	DNM=1-361	DS 8C	DISP-NM				
DNM=1-383	01	WS-COUNTER-2	BL=3	0B0	DNM=1-383	DS 8C	DISP-NM				

```
*STATISTICS*      SOURCE RECORDS =    91      DATA DIVISION STATEMENTS =    12      PROCEDURE DIVISION STATEMENTS =    23
*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)

CROSS REFERENCE TABLE

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
JOINREC	00	86E								
ILBODSP0*	870	700								
ILBOSTP0*	F70	35								

ILBOSTP1 F86

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION	LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
4B0	ILBOSTP0	ILBOSTP0	4B4	ILBODSP0	ILBODSP0
4B8	ILBOSTP1	ILBOSTP0			

ENTRY ADDRESS 00

TOTAL LENGTH FA8  
\*\*\*RUN DOES NOT EXIST BUT HAS BEEN ADDED TO DATA SET  
AUTHORIZATION CODE IS 0.



0100 RECORDS READ  
0050 RECORDS WRITTEN

```
/* LOAD ESDS CLUSTER WITH JOINED RECORDS */
```

```
REPRO INFILE(SYSUT1) OUTDATASET(JAY01.MASTER.ESDS)
```

```
IDC0005I NUMBER OF RECORDS PROCESSED WAS 50
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
/* ----- */
```

```
/* DEFINE ALTERNATE INDEX #1 OVER ESDS: */
```

```
/* UNIQUE KEYS (STUDENT ID NUMBER) */
```

```
DEFINE ALTERNATEINDEX ( -  
    NAME(JAY01.MASTER.ALTIX1) -  
    RELATE(JAY01.MASTER.ESDS) -  
    VOLUMES(PUB000) -  
    UNIQUE -  
    RECORDSIZE(18 18) -  
    TRACKS(15 15) -  
    KEYS(9 0) -  
    UNIQUEKEY -  
    UPGRADE ) -  
DATA ( -  
    NAME(JAY01.MASTER.ALTIX1.DATA) ) -  
INDEX ( -  
    NAME(JAY01.MASTER.ALTIX1.INDEX) ) -
```

```
IDC0508I DATA ALLOCATION STATUS FOR VOLUME PUB000 IS 0
```

```
IDC0509I INDEX ALLOCATION STATUS FOR VOLUME PUB000 IS 0
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
/* BUILD ALTERNATE INDEX #1 */
```

```
BLDINDEX INDATASET(JAY01.MASTER.ESDS) -  
    OUTDATASET(JAY01.MASTER.ALTIX1)
```

```
IDC0652I JAY01.MASTER.ALTIX1 SUCCESSFULLY BUILT
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
/* BUILD THE PATH FOR ALTERNATE INDEX #1 */
```

```
DEFINE PATH (
    NAME(JAY01.MASTER.IDNUMBER.IX)
    PATHENTRY(JAY01.MASTER.ALTIX1) )
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
/* ----- */
```

```
/* DEFINE ALTERNATE INDEX #2 OVER ESDS: */
/* NONUNIQUE KEYS (STUDENT NAME .LAST,FIRST, */
/* MIDDLE INITIAL. OCCURS 1 TO 5 TIMES)*/
```

```
DEFINE ALTERNATEINDEX (
    NAME(JAY01.MASTER.ALTIX2)
    RELATE(JAY01.MASTER.ESDS)
    VOLUMES(PUB000)
    UNIQUE
    RECORDSIZE(39 55)
    TRACKS(15 15)
    KEYS(30 118)
    NONUNIQUEKEY
    UPGRADE )
DATA (
    NAME(JAY01.MASTER.ALTIX2.DATA) )
INDEX (
    NAME(JAY01.MASTER.ALTIX2.INDEX) )
```

```
IDC0508I DATA ALLOCATION STATUS FOR VOLUME PUB000 IS 0
```

```
IDC0509I INDEX ALLOCATION STATUS FOR VOLUME PUB000 IS 0
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
/* BUILD ALTERNATE INDEX #2 */
```

```
BLDINDEX INDATASET(JAY01.MASTER.ESDS)
          OUTDATASET(JAY01.MASTER.ALTIX2)
```

```
IDC0652I JAY01.MASTER.ALTIX2 SUCCESSFULLY BUILT
```

```
IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0
```

```
/* BUILD THE PATH FOR ALTERNATE INDEX #2 */
```

```
DEFINE PATH ( -
      NAME(JAY01.MASTER.NAME.IX) -
      PATHENTRY(JAY01.MASTER.ALTIX2) )
```

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

```
/* ----- */
/* DEFINE ALTERNATE INDEX #3 OVER ESDS: */
/* NONUNIQUE KEYS (LOCATION .STATE,CITY. */
/* OCCURS 1 TO 5 TIMES) */
```

```
DEFINE ALTERNATEINDEX ( -
      NAME(JAY01.MASTER.ALTIX3) -
      RELATE(JAY01.MASTER.ESDS) -
      VOLUMES(PUB000) -
      UNIQUE -
      RECORDSIZE(31 47) -
      TRACKS(15 15) -
      KEYS(22 66) -
      NONUNIQUEKEY -
      UPGRADE ) -
DATA ( -
      NAME(JAY01.MASTER.ALTIX3.DATA) ) -
INDEX ( -
      NAME(JAY01.MASTER.ALTIX3.INDEX) )
```

IDC0508I DATA ALLOCATION STATUS FOR VOLUME PUB000 IS 0

IDC0509I INDEX ALLOCATION STATUS FOR VOLUME PUB000 IS 0

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

```
/* BUILD ALTERNATE INDEX #3 */
BLDINDEX INDATASET(JAY01.MASTER.ESDS) -
      OUTDATASET(JAY01.MASTER.ALTIX3)
```

IDC0652I JAY01.MASTER.ALTIX3 SUCCESSFULLY BUILT

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

```
/* BUILD THE PATH FOR ALTERNATE INDEX #3 */
```

```
DEFINE PATH ( -
      NAME(JAY01.MASTER.CITY.IX) -
      PATHENTRY(JAY01.MASTER.ALTIX3) )
```

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

```
/* ----- */
```

```
/* DEFINE ALTERNATE INDEX #4 OVER ESDS: */
/*      NONUNIQUE KEYS (ENROLLDATE OCCURS 1 TO 5 */
/*      TIMES */
```

```
DEFINE ALTERNATEINDEX ( -
      NAME(JAY01.MASTER.ALTIX4) -
      RELATE(JAY01.MASTER.ESDS) -
      VOLUMES(PUB000) -
      UNIQUE -
      RECORDSIZE(17 33) -
      TRACKS(15 15) -
      KEYS(08 93) -
      NONUNIQUEKEY -
      UPGRADE ) -
DATA ( -
      NAME(JAY01.MASTER.ALTIX4.DATA) ) -
INDEX ( -
      NAME(JAY01.MASTER.ALTIX4.INDEX) )
```

IDC0508I DATA ALLOCATION STATUS FOR VOLUME PUB000 IS 0

IDC0509I INDEX ALLOCATION STATUS FOR VOLUME PUB000 IS 0

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

```
/* BUILD ALTERNATE INDEX #4 */
```

```
BLDINDEX INDATASET(JAY01.MASTER.ESDS) -
      OUTDATASET(JAY01.MASTER.ALTIX4)
```

IDC0652I JAY01.MASTER.ALTIX4 SUCCESSFULLY BUILT

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

```
/* BUILD THE PATH FOR ALTERNATE INDEX #4 */
```

```
DEFINE PATH (                                     -  
    NAME(JAY01.MASTER.EDATE.IX)                 -  
    PATHENTRY(JAY01.MASTER.ALTIX4) )
```

IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0

IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0

1

```

00001 000100 IDENTIFICATION DIVISION.
00002 000200 PROGRAM-ID. KSDSREAD.
00003 000300 AUTHOR. JAY MOSELEY.
00004 000400 DATE-WRITTEN. SEPTEMBER, 2022.
00005 000500 DATE-COMPILED. SEP 22, 202.
00006 000700 REMARKS. BASED UPON THE ORIGINAL KSDSREAD PROGRAM INCLUDED WITH
00007 000800         VSAMIO SOURCE, THIS PROGRAM READS AN ESDS CLUSTER
00008 000900         USING FOUR ALTERNATE INDEXES.
00009 001200
00010 001300 ENVIRONMENT DIVISION.
00011 001400 CONFIGURATION SECTION.
00012 001500 SOURCE-COMPUTER. IBM-370.
00013 001600 OBJECT-COMPUTER. IBM-370.
00014 001700
00015 001800 INPUT-OUTPUT SECTION.
00016 001900 FILE-CONTROL.
00017 002000
00018 002100 DATA DIVISION.
00019 002200 FILE SECTION.
00020 002300
00021 002400 WORKING-STORAGE SECTION.
00022 002500 77  END-OF-FILE-SWITCH          PIC X(1)    VALUE 'N'.
00023 002600      88  END-OF-FILE              VALUE 'Y'.
00024 002700
00025 002800 01  VSIO-PARAMETER-VALUES        COPY VSAMIO.
00026 C 000100* ***** *06980000
00027 C 000200* *06990000
00028 C 000300*      VV  VV  SSSSS      A    M    M  IIII    OOOOO    *07000000
00029 C 000400*      VV  VV  SS   SS   AAA   MM   MM   II   OO   OO    *07010000
00030 C 000500*      VV  VV  SS           AA  AA  MMM  MMM  II   OO   OO    *07020000
00031 C 000600*      VV  VV  SSSSS  AA   AA  MMMMMMMM  II   OO   OO    *07030000
00032 C 000700*      VV  VV           SS  AA   AA  MM  M  MM   II   OO   OO    *07040000
00033 C 000800*      VV  VV  SS   SS  AAAAAAA  MM   MM   II   OO   OO    *07050000
00034 C 000900*      VVV  SS   SS  AA   AA  MM   MM   II   OO   OO    *07060000
00035 C 001000*      V    SSSSS  AA   AA  MM   MM  IIII    OOOOO    *07070000
00036 C 001100* *07080000
00037 C 001200* ***** *07090000
00038 C 001300* *07100000
00039 C 001400* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *07110000
00040 C 001500* ACCESS ROUTINE. *07120000
00041 C 001600* *07130000
00042 C 001700* THE VSIO-PARAMETER-VALUES SUPPLY THE VALUES USED TO MOVE INTO *07140000
00043 C 001800* PARAMETER ENTRIES TO TAILOR THE ROUTINE TO A SPECIFIC DATASET *07150000
00044 C 001900* AND TO PROVIDE COMMANDS TO DRIVE THE ROUTINE. *07160000
00045 C 002000* ***** *07170000
00046 C 002100 01  VSIO-PARAMETER-VALUES. 07180000
00047 C 002200      02  VSIO-OPEN          PIC  X(08)  VALUE 'OPEN   ' . 07190000
00048 C 002300      02  VSIO-CLOSE        PIC  X(08)  VALUE 'CLOSE  ' . 07200000
00049 C 002400      02  VSIO-READ          PIC  X(08)  VALUE 'READ   ' . 07210000
00050 C 002500      02  VSIO-WRITE        PIC  X(08)  VALUE 'WRITE  ' . 07220000
00051 C 002600      02  VSIO-REWRITE       PIC  X(08)  VALUE 'REWRITE' . 07230000
00052 C 002700      02  VSIO-DELETE       PIC  X(08)  VALUE 'DELETE ' . 07240000
00053 C 002800      02  VSIO-START-KEY-EQUAL PIC  X(08)  VALUE 'STARTEQ' . 07250000
00054 C 002900      02  VSIO-START-KEY-NOTLESS PIC X(08)  VALUE 'STARTGE ' . 07260000

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00055 C 003000      02 VSIO-KSDS          PIC X(04) VALUE 'KSDS'.          07270000
00056 C 003100      02 VSIO-ESDS          PIC X(04) VALUE 'ESDS'.          07280000
00057 C 003200      02 VSIO-RRDS          PIC X(04) VALUE 'RRDS'.          07290000
00058 C 003300      02 VSIO-SEQUENTIAL    PIC X(10) VALUE 'SEQUENTIAL'.    07300000
00059 C 003400      02 VSIO-DIRECT        PIC X(10) VALUE 'DIRECT'.        07310000
00060 C 003500      02 VSIO-DYNAMIC       PIC X(10) VALUE 'DYNAMIC'.       07320000
00061 C 003600      02 VSIO-INPUT         PIC X(06) VALUE 'INPUT'.         07330000
00062 C 003700      02 VSIO-OUTPUT        PIC X(06) VALUE 'OUTPUT'.        07340000
00063 C 003800      02 VSIO-INPUT-OUTPUT  PIC X(06) VALUE 'UPDATE'.        07350000
00064 C 003900                                07360000
00065 C 004000* ***** *07370000
00066 C 004100* THE VSIO-PARAMETER-BLOCK IS THE COMMUNICATION INTERFACE TO *07380000
00067 C 004200* THE ROUTINE. *07390000
00068 C 004300* ***** *07400000
00069 C 004400 01 VSIO-PARAMETER-BLOCK. 07410000
00070 C 004500      02 VSIO-COMMAND        PIC X(08). 07420000
00071 C 004600      02 VSIO-RETURN-CODE    PIC S9(04) COMP. 07430000
00072 C 004700      88 VSIO-SUCCESS          VALUE +0. 07440000
00073 C 004800      88 VSIO-LOGIC-ERROR        VALUE +8. 07450000
00074 C 004900      88 VSIO-END-OF-FILE          VALUE +9999. 07460000
00075 C 005000      88 VSIO-PARAMETER-ERROR      VALUE +20 THRU +28. 07470000
00076 C 005100      88 VSIO-COMMAND-UNKNOWN      VALUE +20. 07480000
00077 C 005200      88 VSIO-DATASET-ALREADY-OPEN  VALUE +21. 07490000
00078 C 005300      88 VSIO-DATASET-NOT-OPEN      VALUE +22. 07500000
00079 C 005400      88 VSIO-ORGANIZATION-KEYWORD  VALUE +23. 07510000
00080 C 005500      88 VSIO-ACCESS-KEYWORD        VALUE +24. 07520000
00081 C 005600      88 VSIO-ACCESS-UNSUPPORTED    VALUE +25. 07530000
00082 C 005700      88 VSIO-MODE-KEYWORD          VALUE +26. 07540000
00083 C 005800      88 VSIO-MODE-UNSUPPORTED      VALUE +27. 07550000
00084 C 005900      88 VSIO-DDNAME-BLANK          VALUE +28. 07560000
00085 C 006000      02 VSIO-VSAM-RETURN-CODE    PIC S9(04) COMP. 07570000
00086 C 006100      02 VSIO-VSAM-FUNCTION-CODE  PIC S9(04) COMP. 07580000
00087 C 006200      02 VSIO-VSAM-FEEDBACK-CODE  PIC S9(04) COMP. 07590000
00088 C 006300      88 VSIO-DUPLICATE-RECORD      VALUE +8. 07600000
00089 C 006400      88 VSIO-SEQUENCE-ERROR        VALUE +12. 07610000
00090 C 006500      88 VSIO-RECORD-NOT-FOUND      VALUE +16. 07620000
00091 C 006600      88 VSIO-NO-MORE-SPACE          VALUE +28. 07630000
00092 C 006700      88 VSIO-READ-WITHOUT-START     VALUE +88. 07640000
00093 C 006800* ***** *07650000
00094 C 006900*                END OF VSAMIO COPY BOOK *07660000
00095 C 007000* ***** *07670000
00096 C 002900 01 ESDS-AKEY01                COPY VSAMIOFB.
00097 C 000100* ***** *00000100
00098 C 000200* ***** *00000200
00099 C 000300* VV VV SSSSS A M M IIII OOOO FFFFFFFF BBBB *00000300
00100 C 000400* VV VV SS SS AAA MM MM II OO OO FF BB BB *00000400
00101 C 000500* VV VV SS AA AA MMM MMM II OO OO FF BB BB *00000500
00102 C 000600* VV VV SSSSS AA AA MMMMMMMM II OO OO FFFFF BBBB *00000600
00103 C 000700* VV VV SS AA AA MM M MM II OO OO FF BB BB *00000700
00104 C 000800* VV VV SS SS AAAAAA MM MM II OO OO FF BB BB *00000800
00105 C 000900* VVV SS SS AA AA MM MM II OO OO FF BB BB *00000900
00106 C 001000* V SSSSS AA AA MM MM IIII OOOO FF BBBB *00001000
00107 C 001100* ***** *00001100
00108 C 001200* ***** *00001200
00109 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *00001300
00110 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS *00001400
00111 C 001500* FOR A SINGLE VSAM DATASET. *00001500

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00112 C 001600* *00001600
00113 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE *00001700
00114 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE *00001800
00115 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED *00001900
00116 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT *00002000
00117 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED. *00002100
00118 C 002200* ***** *00002200
00119 C 002300 01 ESDS-AKEY01. 00002300
00120 C 002400 02 VSIO-DDNAME PIC X(08) VALUE SPACES. 00002400
00121 C 002500 02 VSIO-ORGANIZATION PIC X(04) VALUE SPACES. 00002500
00122 C 002600 02 VSIO-ACCESS PIC X(10) VALUE SPACES. 00002600
00123 C 002700 02 VSIO-MODE PIC X(06) VALUE SPACES. 00002700
00124 C 002800 02 VSIO-RECORD-LENGTH PIC S9(04) COMP VALUE +0. 00002800
00125 C 002900 02 VSIO-KEY-ARGUMENT. 00002900
00126 C 003000 03 VSIO-KEY-POSITION PIC S9(04) COMP VALUE +0. 00003000
00127 C 003100 03 VSIO-KEY-LENGTH PIC S9(04) COMP VALUE +0. 00003100
00128 C 003200 02 VSIO-RELATIVE-RECORD REDEFINES VSIO-KEY-ARGUMENT 00003200
00129 C 003300 PIC S9(08) COMP. 00003300
00130 C 003400 02 FILLER PIC X(01) VALUE 'C'. 00003400
00131 C 003500 88 VSIO-FILE-OPEN VALUE 'O'. 00003500
00132 C 003600 88 VSIO-FILE-CLOSED VALUE 'C'. 00003600
00133 C 003700 02 FILLER PIC X(161). 00003700
00134 C 003800* ***** *00003800
00135 C 003900* END OF VSAMIOFB COPY BOOK *00003900
00136 C 004000* ***** *00004000
00137 003000 01 ESDS-AKEY02 COPY VSAMIOFB.
00138 C 000100* ***** *00000100
00139 C 000200* *00000200
00140 C 000300* VV VV SSSSS A M M IIII OOOO FFFFFFFF BBBB *00000300
00141 C 000400* VV VV SS SS AAA MM MM II OO OO FF BB BB *00000400
00142 C 000500* VV VV SS AA AA MMM MMM II OO OO FF BB BB *00000500
00143 C 000600* VV VV SSSSS AA AA MMMMMMMM II OO OO FFFFF BBBB *00000600
00144 C 000700* VV VV SS AA AA MM M MM II OO OO FF BB BB *00000700
00145 C 000800* VV VV SS SS AAAAAA MM MM II OO OO FF BB BB *00000800
00146 C 000900* VVV SS SS AA AA MM MM II OO OO FF BB BB *00000900
00147 C 001000* V SSSSS AA AA MM MM IIII OOOO FF BBBB *00001000
00148 C 001100* *00001100
00149 C 001200* ***** *00001200
00150 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *00001300
00151 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS *00001400
00152 C 001500* FOR A SINGLE VSAM DATASET. *00001500
00153 C 001600* *00001600
00154 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE *00001700
00155 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE *00001800
00156 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED *00001900
00157 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT *00002000
00158 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED. *00002100
00159 C 002200* ***** *00002200
00160 C 002300 01 ESDS-AKEY02. 00002300
00161 C 002400 02 VSIO-DDNAME PIC X(08) VALUE SPACES. 00002400
00162 C 002500 02 VSIO-ORGANIZATION PIC X(04) VALUE SPACES. 00002500
00163 C 002600 02 VSIO-ACCESS PIC X(10) VALUE SPACES. 00002600
00164 C 002700 02 VSIO-MODE PIC X(06) VALUE SPACES. 00002700
00165 C 002800 02 VSIO-RECORD-LENGTH PIC S9(04) COMP VALUE +0. 00002800
00166 C 002900 02 VSIO-KEY-ARGUMENT. 00002900
00167 C 003000 03 VSIO-KEY-POSITION PIC S9(04) COMP VALUE +0. 00003000
00168 C 003100 03 VSIO-KEY-LENGTH PIC S9(04) COMP VALUE +0. 00003100

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00169 C 003200      02 VSIO-RELATIVE-RECORD      REDEFINES VSIO-KEY-ARGUMENT      00003200
00170 C 003300      PIC S9(08) COMP.      00003300
00171 C 003400      02 FILLER      PIC X(01) VALUE 'C'.      00003400
00172 C 003500      88 VSIO-FILE-OPEN      VALUE 'O'.      00003500
00173 C 003600      88 VSIO-FILE-CLOSED      VALUE 'C'.      00003600
00174 C 003700      02 FILLER      PIC X(161).      00003700
00175 C 003800* *****      *00003800
00176 C 003900*      END OF VSAMIOFB COPY BOOK      *00003900
00177 C 004000* *****      *00004000
00178      003100 01 ESDS-AKEY03      COPY VSAMIOFB.
00179 C 000100* *****      *00000100
00180 C 000200* *****      *00000200
00181 C 000300* VV VV SSSSS A M M IIII OOOO FFFFFFFF BBBB      *00000300
00182 C 000400* VV VV SS SS AAA MM MM II OO OO FF BB BB      *00000400
00183 C 000500* VV VV SS AA AA MMM MMM II OO OO FF BB BB      *00000500
00184 C 000600* VV VV SSSSS AA AA MMMMMMMM II OO OO FFFF BBBB      *00000600
00185 C 000700* VV VV SS SS AA AA MM M MM II OO OO FF BB BB      *00000700
00186 C 000800* VV VV SS SS AAAAAA MM MM II OO OO FF BB BB      *00000800
00187 C 000900* VVV SS SS AA AA MM MM II OO OO FF BB BB      *00000900
00188 C 001000* V SSSSS AA AA MM MM IIII OOOO FF BBBB      *00001000
00189 C 001100* *****      *00001100
00190 C 001200* *****      *00001200
00191 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET      *00001300
00192 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS      *00001400
00193 C 001500* FOR A SINGLE VSAM DATASET.      *00001500
00194 C 001600* *****      *00001600
00195 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE      *00001700
00196 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE      *00001800
00197 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED      *00001900
00198 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT      *00002000
00199 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED.      *00002100
00200 C 002200* *****      *00002200
00201 C 002300 01 ESDS-AKEY03.
00202 C 002400      02 VSIO-DDNAME      PIC X(08) VALUE SPACES.      00002400
00203 C 002500      02 VSIO-ORGANIZATION      PIC X(04) VALUE SPACES.      00002500
00204 C 002600      02 VSIO-ACCESS      PIC X(10) VALUE SPACES.      00002600
00205 C 002700      02 VSIO-MODE      PIC X(06) VALUE SPACES.      00002700
00206 C 002800      02 VSIO-RECORD-LENGTH      PIC S9(04) COMP VALUE +0.      00002800
00207 C 002900      02 VSIO-KEY-ARGUMENT.      00002900
00208 C 003000      03 VSIO-KEY-POSITION      PIC S9(04) COMP VALUE +0.      00003000
00209 C 003100      03 VSIO-KEY-LENGTH      PIC S9(04) COMP VALUE +0.      00003100
00210 C 003200      02 VSIO-RELATIVE-RECORD      REDEFINES VSIO-KEY-ARGUMENT      00003200
00211 C 003300      PIC S9(08) COMP.      00003300
00212 C 003400      02 FILLER      PIC X(01) VALUE 'C'.      00003400
00213 C 003500      88 VSIO-FILE-OPEN      VALUE 'O'.      00003500
00214 C 003600      88 VSIO-FILE-CLOSED      VALUE 'C'.      00003600
00215 C 003700      02 FILLER      PIC X(161).      00003700
00216 C 003800* *****      *00003800
00217 C 003900*      END OF VSAMIOFB COPY BOOK      *00003900
00218 C 004000* *****      *00004000
00219      003200 01 ESDS-AKEY04      COPY VSAMIOFB.
00220 C 000100* *****      *00000100
00221 C 000200* *****      *00000200
00222 C 000300* VV VV SSSSS A M M IIII OOOO FFFFFFFF BBBB      *00000300
00223 C 000400* VV VV SS SS AAA MM MM II OO OO FF BB BB      *00000400
00224 C 000500* VV VV SS AA AA MMM MMM II OO OO FF BB BB      *00000500
00225 C 000600* VV VV SSSSS AA AA MMMMMMMM II OO OO FFFF BBBB      *00000600

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00226 C 000700* VV VV SS AA AA MM M MM II OO OO FF BB BB *00000700
00227 C 000800* VV VV SS SS AAAAAA MM MM II OO OO FF BB BB *00000800
00228 C 000900* VVV SS SS AA AA MM MM II OO OO FF BB BB *00000900
00229 C 001000* V SSSS AA AA MM MM IIII OOOO FF BBBB *00001000
00230 C 001100* *00001100
00231 C 001200* ***** *00001200
00232 C 001300* THESE PARAMETERS ARE USED TO INTERFACE WITH THE VSAM DATASET *00001300
00233 C 001400* ACCESS ROUTINE, AND ARE USED TO COMMUNICATE CHARACTERISTICS *00001400
00234 C 001500* FOR A SINGLE VSAM DATASET. *00001500
00235 C 001600* *00001600
00236 C 001700* WITH THE 2 EXCEPTIONS FOR RECORD LENGTH (TO ACCOMODATE *00001700
00237 C 001800* VARIABLE LENGTH RECORDS) AND RELATIVE RECORD (TO ACCOMODATE *00001800
00238 C 001900* RELATIVE RECORD DATASETS) THESE DATA NAMES MUST BE POPULATED *00001900
00239 C 002000* PRIOR TO CALLING THE ROUTINE TO OPEN THE DATASET AND MUST NOT *00002000
00240 C 002100* THEN BE CHANGED UNTIL THE DATASET HAS BEEN CLOSED. *00002100
00241 C 002200* ***** *00002200
00242 C 002300 01 ESDS-AKEY04. 00002300
00243 C 002400 02 VSIO-DDNAME PIC X(08) VALUE SPACES. 00002400
00244 C 002500 02 VSIO-ORGANIZATION PIC X(04) VALUE SPACES. 00002500
00245 C 002600 02 VSIO-ACCESS PIC X(10) VALUE SPACES. 00002600
00246 C 002700 02 VSIO-MODE PIC X(06) VALUE SPACES. 00002700
00247 C 002800 02 VSIO-RECORD-LENGTH PIC S9(04) COMP VALUE +0. 00002800
00248 C 002900 02 VSIO-KEY-ARGUMENT. 00002900
00249 C 003000 03 VSIO-KEY-POSITION PIC S9(04) COMP VALUE +0. 00003000
00250 C 003100 03 VSIO-KEY-LENGTH PIC S9(04) COMP VALUE +0. 00003100
00251 C 003200 02 VSIO-RELATIVE-RECORD REDEFINES VSIO-KEY-ARGUMENT 00003200
00252 C 003300 PIC S9(08) COMP. 00003300
00253 C 003400 02 FILLER PIC X(01) VALUE 'C'. 00003400
00254 C 003500 88 VSIO-FILE-OPEN VALUE 'O'. 00003500
00255 C 003600 88 VSIO-FILE-CLOSED VALUE 'C'. 00003600
00256 C 003700 02 FILLER PIC X(161). 00003700
00257 C 003800* ***** *00003800
00258 C 003900* END OF VSAMIOFB COPY BOOK *00003900
00259 C 004000* ***** *00004000
00260 003300
00261 003400 01 ESDS-RECORD-FIELDS.
00262 003500 02 ESDS-STUDENT-NUMBER PIC 9(09).
00263 003600 02 ESDS-FIRST-NAME PIC X(11).
00264 003700 02 ESDS-MINITIAL PIC X(01).
00265 003800 02 ESDS-LAST-NAME PIC X(10).
00266 003900 02 ESDS-STREET PIC X(35).
00267 004000 02 ESDS-STATE-CITY.
00268 004100 03 ESDS-STATE PIC X(02).
00269 004200 03 ESDS-CITY PIC X(20).
00270 004300 02 ESDS-ZIPCODE PIC X(05).
00271 004400 02 ESDS-DATE1 PIC X(08).
00272 004500 02 ESDS-DATE2 PIC X(08).
00273 004600 02 ESDS-DATE3 PIC X(08).
00274 004700 02 ESDS-GENDER PIC X(01).
00275 004800 02 ESDS-PRINT-NAME PIC X(30).
00276 004900
00277 005000 PROCEDURE DIVISION.
00278 005100
00279 005200 PERFORM 000-INITIATE-K1 THRU 030-EXIT.
00280 005300 PERFORM 100-INITIATE-K2 THRU 130-EXIT.
00281 005400 PERFORM 200-INITIATE-K3 THRU 230-EXIT.
00282 005500 PERFORM 300-INITIATE-K4 THRU 330-EXIT.

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00283 005600 GOBACK.
00284 005700
00285 005800 000-INITIATE-K1.
00286 005900
00287 006000 DISPLAY 'READING ESDS SEQUENTIALLY USING AIX #1'.
00288 006100 DISPLAY '-----'.
00289 006200 DISPLAY ' '.
00290 006300
00291 006400 MOVE 'ESAKEY1' TO VSIO-DDNAME OF ESDS-AKEY01.
00292 006500 MOVE VSIO-KSDS TO VSIO-ORGANIZATION OF ESDS-AKEY01.
00293 006600 MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS OF ESDS-AKEY01.
00294 006700 MOVE VSIO-INPUT TO VSIO-MODE OF ESDS-AKEY01.
00295 006800 MOVE +148 TO VSIO-RECORD-LENGTH OF ESDS-AKEY01.
00296 006900 MOVE +0 TO VSIO-KEY-POSITION OF ESDS-AKEY01.
00297 007000 MOVE +9 TO VSIO-KEY-LENGTH OF ESDS-AKEY01.
00298 007100 MOVE VSIO-OPEN TO VSIO-COMMAND.
00299 007200 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY01,
00300 007300 ESDS-RECORD-FIELDS.
00301 007400* END-CALL.
00302 007500 IF NOT VSIO-SUCCESS
00303 007600 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00304 007700 VSIO-COMMAND
00305 007800 EXHIBIT NAMED VSIO-RETURN-CODE,
00306 007900 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00307 008000 VSIO-VSAM-FUNCTION-CODE,
00308 008100 VSIO-VSAM-FEEDBACK-CODE
00309 008200 STOP RUN.
00310 008300* END-IF.
00311 008400
00312 008500 010-PROCESS-K1.
00313 008600
00314 008700 MOVE 'N' TO END-OF-FILE-SWITCH.
00315 008800 PERFORM 910-PROCESS-K1
00316 008900 THRU 919-EXIT
00317 009000 UNTIL END-OF-FILE.
00318 009100* END-PERFORM.
00319 009200
00320 009300 DISPLAY '-----'.
00321 009400 DISPLAY ' '.
00322 009500
00323 009600 020-TERMINATE-K1.
00324 009700
00325 009800 MOVE VSIO-CLOSE TO VSIO-COMMAND.
00326 009900 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY01,
00327 010000 ESDS-RECORD-FIELDS.
00328 010100* END-CALL.
00329 010200 IF NOT VSIO-SUCCESS
00330 010300 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00331 010400 VSIO-COMMAND
00332 010500 EXHIBIT NAMED VSIO-RETURN-CODE,
00333 010600 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00334 010700 VSIO-VSAM-FUNCTION-CODE,
00335 010800 VSIO-VSAM-FEEDBACK-CODE.
00336 010900* END-IF.
00337 011000
00338 011100 030-EXIT.
00339 011200 EXIT.

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00340 011300
00341 011400 100-INITIATE-K2.
00342 011500
00343 011600 DISPLAY 'READING ESDS SEQUENTIALLY USING AIX #2'.
00344 011700 DISPLAY '-----'.
00345 011800 DISPLAY ' '.
00346 011900
00347 012000 MOVE 'ESAKEY2' TO VSIO-DDNAME OF ESDS-AKEY02.
00348 012100 MOVE VSIO-KSDS TO VSIO-ORGANIZATION OF ESDS-AKEY02.
00349 012200 MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS OF ESDS-AKEY02.
00350 012300 MOVE VSIO-INPUT TO VSIO-MODE OF ESDS-AKEY02.
00351 012400 MOVE +148 TO VSIO-RECORD-LENGTH OF ESDS-AKEY02.
00352 012500 MOVE +118 TO VSIO-KEY-POSITION OF ESDS-AKEY02.
00353 012600 MOVE +30 TO VSIO-KEY-LENGTH OF ESDS-AKEY02.
00354 012700 MOVE VSIO-OPEN TO VSIO-COMMAND.
00355 012800 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY02,
00356 012900 ESDS-RECORD-FIELDS.
00357 013000* END-CALL.
00358 013100 IF NOT VSIO-SUCCESS
00359 013200 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00360 013300 VSIO-COMMAND
00361 013400 EXHIBIT NAMED VSIO-RETURN-CODE,
00362 013500 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00363 013600 VSIO-VSAM-FUNCTION-CODE,
00364 013700 VSIO-VSAM-FEEDBACK-CODE
00365 013800 STOP RUN.
00366 013900* END-IF.
00367 014000
00368 014100 110-PROCESS-K2.
00369 014200
00370 014300 MOVE 'N' TO END-OF-FILE-SWITCH.
00371 014400 PERFORM 920-PROCESS-K2
00372 014500 THRU 929-EXIT
00373 014600 UNTIL END-OF-FILE.
00374 014700* END-PERFORM.
00375 014800
00376 014900 DISPLAY '-----'.
00377 015000 DISPLAY ' '.
00378 015100
00379 015200 120-TERMINATE-K2.
00380 015300
00381 015400 MOVE VSIO-CLOSE TO VSIO-COMMAND.
00382 015500 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY02,
00383 015600 ESDS-RECORD-FIELDS.
00384 015700* END-CALL.
00385 015800 IF NOT VSIO-SUCCESS
00386 015900 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00387 016000 VSIO-COMMAND
00388 016100 EXHIBIT NAMED VSIO-RETURN-CODE,
00389 016200 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00390 016300 VSIO-VSAM-FUNCTION-CODE,
00391 016400 VSIO-VSAM-FEEDBACK-CODE.
00392 016500* END-IF.
00393 016600
00394 016700 130-EXIT.
00395 016800 EXIT.
00396 016900
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00397 017000 200-INITIATE-K3.
00398 017100
00399 017200     DISPLAY 'READING ESDS SEQUENTIALLY USING AIX #3'.
00400 017300     DISPLAY '-----'.
00401 017400     DISPLAY ' '.
00402 017500
00403 017600     MOVE 'ESAKEY3' TO VSIO-DDNAME OF ESDS-AKEY03.
00404 017700     MOVE VSIO-KSDS TO VSIO-ORGANIZATION OF ESDS-AKEY03.
00405 017800     MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS OF ESDS-AKEY03.
00406 017900     MOVE VSIO-INPUT TO VSIO-MODE OF ESDS-AKEY03.
00407 018000     MOVE +148 TO VSIO-RECORD-LENGTH OF ESDS-AKEY03.
00408 018100     MOVE +66 TO VSIO-KEY-POSITION OF ESDS-AKEY03.
00409 018200     MOVE +22 TO VSIO-KEY-LENGTH OF ESDS-AKEY03.
00410 018300     MOVE VSIO-OPEN TO VSIO-COMMAND.
00411 018400     CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY03,
00412 018500             ESDS-RECORD-FIELDS.
00413 018600*     END-CALL.
00414 018700     IF NOT VSIO-SUCCESS
00415 018800             DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00416 018900             VSIO-COMMAND
00417 019000             EXHIBIT NAMED VSIO-RETURN-CODE,
00418 019100             EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00419 019200             VSIO-VSAM-FUNCTION-CODE,
00420 019300             VSIO-VSAM-FEEDBACK-CODE
00421 019400             STOP RUN.
00422 019500*     END-IF.
00423 019600
00424 019700 210-PROCESS-K3.
00425 019800
00426 019900     MOVE 'N' TO END-OF-FILE-SWITCH.
00427 020000     PERFORM 930-PROCESS-K3
00428 020100             THRU 939-EXIT
00429 020200             UNTIL END-OF-FILE.
00430 020300*     END-PERFORM.
00431 020400
00432 020500     DISPLAY '-----'.
00433 020600     DISPLAY ' '.
00434 020700
00435 020800 220-TERMINATE-K3.
00436 020900
00437 021000     MOVE VSIO-CLOSE TO VSIO-COMMAND.
00438 021100     CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY03,
00439 021200             ESDS-RECORD-FIELDS.
00440 021300*     END-CALL.
00441 021400     IF NOT VSIO-SUCCESS
00442 021500             DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00443 021600             VSIO-COMMAND
00444 021700             EXHIBIT NAMED VSIO-RETURN-CODE,
00445 021800             EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00446 021900             VSIO-VSAM-FUNCTION-CODE,
00447 022000             VSIO-VSAM-FEEDBACK-CODE.
00448 022100*     END-IF.
00449 022200
00450 022300 230-EXIT.
00451 022400     EXIT.
00452 022500
00453 022600 300-INITIATE-K4.

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00454 022700
00455 022800 DISPLAY 'READING ESDS SEQUENTIALLY USING AIX #4'.
00456 022900 DISPLAY '-----'.
00457 023000 DISPLAY ' '.
00458 023100
00459 023200 MOVE 'ESAKEY4' TO VSIO-DDNAME OF ESDS-AKEY04.
00460 023300 MOVE VSIO-KSDS TO VSIO-ORGANIZATION OF ESDS-AKEY04.
00461 023400 MOVE VSIO-SEQUENTIAL TO VSIO-ACCESS OF ESDS-AKEY04.
00462 023500 MOVE VSIO-INPUT TO VSIO-MODE OF ESDS-AKEY04.
00463 023600 MOVE +148 TO VSIO-RECORD-LENGTH OF ESDS-AKEY04.
00464 023700 MOVE +93 TO VSIO-KEY-POSITION OF ESDS-AKEY04.
00465 023800 MOVE +8 TO VSIO-KEY-LENGTH OF ESDS-AKEY04.
00466 023900 MOVE VSIO-OPEN TO VSIO-COMMAND.
00467 024000 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY04,
00468 024100 ESDS-RECORD-FIELDS.
00469 024200* END-CALL.
00470 024300 IF NOT VSIO-SUCCESS
00471 024400 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00472 024500 VSIO-COMMAND
00473 024600 EXHIBIT NAMED VSIO-RETURN-CODE,
00474 024700 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00475 024800 VSIO-VSAM-FUNCTION-CODE,
00476 024900 VSIO-VSAM-FEEDBACK-CODE
00477 025000 STOP RUN.
00478 025100* END-IF.
00479 025200
00480 025300 310-PROCESS-K4.
00481 025400
00482 025500 MOVE 'N' TO END-OF-FILE-SWITCH.
00483 025600 PERFORM 940-PROCESS-K4
00484 025700 THRU 949-EXIT
00485 025800 UNTIL END-OF-FILE.
00486 025900* END-PERFORM.
00487 026000
00488 026100 DISPLAY '-----'.
00489 026200 DISPLAY ' '.
00490 026300
00491 026400 320-TERMINATE-K4.
00492 026500
00493 026600 MOVE VSIO-CLOSE TO VSIO-COMMAND.
00494 026700 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY04,
00495 026800 ESDS-RECORD-FIELDS.
00496 026900* END-CALL.
00497 027000 IF NOT VSIO-SUCCESS
00498 027100 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00499 027200 VSIO-COMMAND
00500 027300 EXHIBIT NAMED VSIO-RETURN-CODE,
00501 027400 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00502 027500 VSIO-VSAM-FUNCTION-CODE,
00503 027600 VSIO-VSAM-FEEDBACK-CODE.
00504 027700* END-IF.
00505 027800
00506 027900 330-EXIT.
00507 028000 EXIT.
00508 028100
00509 028200 910-PROCESS-K1.
00510 028300

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00511 028400 MOVE VSIO-READ TO VSIO-COMMAND.
00512 028500 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY01,
00513 028600 ESDS-RECORD-FIELDS.
00514 028700* END-CALL.
00515 028800
00516 028900 IF NOT VSIO-SUCCESS
00517 029000 IF VSIO-END-OF-FILE
00518 029100 MOVE 'Y' TO END-OF-FILE-SWITCH
00519 029200 ELSE
00520 029300 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00521 029400 VSIO-COMMAND
00522 029500 EXHIBIT NAMED VSIO-RETURN-CODE,
00523 029600 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00524 029700 VSIO-VSAM-FUNCTION-CODE,
00525 029800 VSIO-VSAM-FEEDBACK-CODE
00526 029900 MOVE 'Y' TO END-OF-FILE-SWITCH.
00527 030000* END-IF
00528 030100* END-IF.
00529 030200
00530 030300 IF NOT END-OF-FILE
00531 030400 DISPLAY 'KEY: ' ESDS-STUDENT-NUMBER
00532 030500 DISPLAY 'RECORD: ' ESDS-RECORD-FIELDS
00533 030600 DISPLAY ' '.
00534 030700* END-IF.
00535 030800
00536 030900 919-EXIT.
00537 031000 EXIT.
00538 031100
00539 031200 920-PROCESS-K2.
00540 031300
00541 031400 MOVE VSIO-READ TO VSIO-COMMAND.
00542 031500 CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY02,
00543 031600 ESDS-RECORD-FIELDS.
00544 031700* END-CALL.
00545 031800
00546 031900 IF NOT VSIO-SUCCESS
00547 032000 IF VSIO-END-OF-FILE
00548 032100 MOVE 'Y' TO END-OF-FILE-SWITCH
00549 032200 ELSE
00550 032300 DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00551 032400 VSIO-COMMAND
00552 032500 EXHIBIT NAMED VSIO-RETURN-CODE,
00553 032600 EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00554 032700 VSIO-VSAM-FUNCTION-CODE,
00555 032800 VSIO-VSAM-FEEDBACK-CODE
00556 032900 MOVE 'Y' TO END-OF-FILE-SWITCH.
00557 033000* END-IF
00558 033100* END-IF.
00559 033200
00560 033300 IF NOT END-OF-FILE
00561 033400 DISPLAY 'KEY: ' ESDS-PRINT-NAME
00562 033500 DISPLAY 'RECORD: ' ESDS-RECORD-FIELDS
00563 033600 DISPLAY ' '.
00564 033700* END-IF.
00565 033800
00566 033900 929-EXIT.
00567 034000 EXIT.
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00568 034100
00569 034200 930-PROCESS-K3.
00570 034300
00571 034400     MOVE VSIO-READ TO VSIO-COMMAND.
00572 034500     CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY03,
00573 034600             ESDS-RECORD-FIELDS.
00574 034700*    END-CALL.
00575 034800
00576 034900     IF NOT VSIO-SUCCESS
00577 035000         IF VSIO-END-OF-FILE
00578 035100             MOVE 'Y' TO END-OF-FILE-SWITCH
00579 035200         ELSE
00580 035300             DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00581 035400                 VSIO-COMMAND
00582 035500             EXHIBIT NAMED VSIO-RETURN-CODE,
00583 035600             EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00584 035700                 VSIO-VSAM-FUNCTION-CODE,
00585 035800                 VSIO-VSAM-FEEDBACK-CODE
00586 035900             MOVE 'Y' TO END-OF-FILE-SWITCH.
00587 036000*    END-IF
00588 036100*    END-IF.
00589 036200
00590 036300     IF NOT END-OF-FILE
00591 036400         DISPLAY 'KEY: ' ESDS-STATE-CITY
00592 036500         DISPLAY 'RECORD: ' ESDS-RECORD-FIELDS
00593 036600         DISPLAY ' '.
00594 036700*    END-IF.
00595 036800
00596 036900 939-EXIT.
00597 037000     EXIT.
00598 037100
00599 037200 940-PROCESS-K4.
00600 037300
00601 037400     MOVE VSIO-READ TO VSIO-COMMAND.
00602 037500     CALL 'VSAMIO' USING VSIO-PARAMETER-BLOCK, ESDS-AKEY04,
00603 037600             ESDS-RECORD-FIELDS.
00604 037700*    END-CALL.
00605 037800
00606 037900     IF NOT VSIO-SUCCESS
00607 038000         IF VSIO-END-OF-FILE
00608 038100             MOVE 'Y' TO END-OF-FILE-SWITCH
00609 038200         ELSE
00610 038300             DISPLAY 'VSAMIO ERROR OCCURRED DURING '
00611 038400                 VSIO-COMMAND
00612 038500             EXHIBIT NAMED VSIO-RETURN-CODE,
00613 038600             EXHIBIT NAMED VSIO-VSAM-RETURN-CODE,
00614 038700                 VSIO-VSAM-FUNCTION-CODE,
00615 038800                 VSIO-VSAM-FEEDBACK-CODE
00616 038900             MOVE 'Y' TO END-OF-FILE-SWITCH.
00617 039000*    END-IF
00618 039100*    END-IF.
00619 039200
00620 039300     IF NOT END-OF-FILE
00621 039400         DISPLAY 'KEY: ' ESDS-DATE1
00622 039500         DISPLAY 'RECORD: ' ESDS-RECORD-FIELDS
00623 039600         DISPLAY ' '.
00624 039700*    END-IF.
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00625 039800
00626 039900 949-EXIT.
00627 040000     EXIT.
00628 040100
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INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=2-000	77	END-OF-FILE-SWITCH	BL=1	000	DNM=2-000	DS 1C	DISP				
DNM=2-031	88	END-OF-FILE			DNM=2-031						
DNM=2-053	01	VSIO-PARAMETER-VALUES	BL=1	008	DNM=2-053	DS 0CL124	GROUP				
DNM=2-087	02	VSIO-OPEN	BL=1	008	DNM=2-087	DS 8C	DISP				
DNM=2-106	02	VSIO-CLOSE	BL=1	010	DNM=2-106	DS 8C	DISP				
DNM=2-126	02	VSIO-READ	BL=1	018	DNM=2-126	DS 8C	DISP				
DNM=2-148	02	VSIO-WRITE	BL=1	020	DNM=2-148	DS 8C	DISP				
DNM=2-171	02	VSIO-REWRITE	BL=1	028	DNM=2-171	DS 8C	DISP				
DNM=2-193	02	VSIO-DELETE	BL=1	030	DNM=2-193	DS 8C	DISP				
DNM=2-214	02	VSIO-START-KEY-EQUAL	BL=1	038	DNM=2-214	DS 8C	DISP				
DNM=2-244	02	VSIO-START-KEY-NOTLESS	BL=1	040	DNM=2-244	DS 8C	DISP				
DNM=2-276	02	VSIO-KSDS	BL=1	048	DNM=2-276	DS 4C	DISP				
DNM=2-295	02	VSIO-ESDS	BL=1	04C	DNM=2-295	DS 4C	DISP				
DNM=2-314	02	VSIO-RRDS	BL=1	050	DNM=2-314	DS 4C	DISP				
DNM=2-333	02	VSIO-SEQUENTIAL	BL=1	054	DNM=2-333	DS 10C	DISP				
DNM=2-358	02	VSIO-DIRECT	BL=1	05E	DNM=2-358	DS 10C	DISP				
DNM=2-379	02	VSIO-DYNAMIC	BL=1	068	DNM=2-379	DS 10C	DISP				
DNM=2-401	02	VSIO-INPUT	BL=1	072	DNM=2-401	DS 6C	DISP				
DNM=2-421	02	VSIO-OUTPUT	BL=1	078	DNM=2-421	DS 6C	DISP				
DNM=2-442	02	VSIO-INPUT-OUTPUT	BL=1	07E	DNM=2-442	DS 6C	DISP				
DNM=2-469	01	VSIO-PARAMETER-BLOCK	BL=1	088	DNM=2-469	DS 0CL16	GROUP				
DNM=3-000	02	VSIO-COMMAND	BL=1	088	DNM=3-000	DS 8C	DISP				
DNM=3-022	02	VSIO-RETURN-CODE	BL=1	090	DNM=3-022	DS 2C	COMP				
DNM=3-051	88	VSIO-SUCCESS			DNM=3-051						
DNM=3-076	88	VSIO-LOGIC-ERROR			DNM=3-076						
DNM=3-105	88	VSIO-END-OF-FILE			DNM=3-105						
DNM=3-136	88	VSIO-PARAMETER-ERROR			DNM=3-136						
DNM=3-166	88	VSIO-COMMAND-UNKNOWN			DNM=3-166						
DNM=3-200	88	VSIO-DATASET-ALREADY-OPEN			DNM=3-200						
DNM=3-239	88	VSIO-DATASET-NOT-OPEN			DNM=3-239						
DNM=3-274	88	VSIO-ORGANIZATION-KEYWORD			DNM=3-274						
DNM=3-313	88	VSIO-ACCESS-KEYWORD			DNM=3-313						
DNM=3-346	88	VSIO-ACCESS-UNSUPPORTED			DNM=3-346						
DNM=3-383	88	VSIO-MODE-KEYWORD			DNM=3-383						
DNM=3-414	88	VSIO-MODE-UNSUPPORTED			DNM=3-414						
DNM=3-449	88	VSIO-DDNAME-BLANK			DNM=3-449						
DNM=3-480	02	VSIO-VSAM-RETURN-CODE	BL=1	092	DNM=3-480	DS 2C	COMP				
DNM=4-000	02	VSIO-VSAM-FUNCTION-CODE	BL=1	094	DNM=4-000	DS 2C	COMP				
DNM=4-033	02	VSIO-VSAM-FEEDBACK-CODE	BL=1	096	DNM=4-033	DS 2C	COMP				
DNM=4-069	88	VSIO-DUPLICATE-RECORD			DNM=4-069						
DNM=4-103	88	VSIO-SEQUENCE-ERROR			DNM=4-103						
DNM=4-136	88	VSIO-RECORD-NOT-FOUND			DNM=4-136						
DNM=4-171	88	VSIO-NO-MORE-SPACE			DNM=4-171						
DNM=4-203	88	VSIO-READ-WITHOUT-START			DNM=4-203						
DNM=4-240	01	ESDS-AKEY01	BL=1	098	DNM=4-240	DS 0CL196	GROUP				
DNM=4-267	02	VSIO-DDNAME	BL=1	098	DNM=4-267	DS 8C	DISP				
DNM=4-288	02	VSIO-ORGANIZATION	BL=1	0A0	DNM=4-288	DS 4C	DISP				
DNM=4-315	02	VSIO-ACCESS	BL=1	0A4	DNM=4-315	DS 10C	DISP				
DNM=4-336	02	VSIO-MODE	BL=1	0AE	DNM=4-336	DS 6C	DISP				
DNM=4-355	02	VSIO-RECORD-LENGTH	BL=1	0B4	DNM=4-355	DS 2C	COMP				
DNM=4-383	02	VSIO-KEY-ARGUMENT	BL=1	0B6	DNM=4-383	DS 0CL4	GROUP				
DNM=4-413	03	VSIO-KEY-POSITION	BL=1	0B6	DNM=4-413	DS 2C	COMP				
DNM=4-443	03	VSIO-KEY-LENGTH	BL=1	0B8	DNM=4-443	DS 2C	COMP				
DNM=4-468	02	VSIO-RELATIVE-RECORD	BL=1	0B6	DNM=4-468	DS 4C	COMP	R			
DNM=5-000	02	FILLER	BL=1	0BA	DNM=5-000	DS 1C	DISP				

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=5-019	88	VSIO-FILE-OPEN			DNM=5-019						
DNM=5-044	88	VSIO-FILE-CLOSED			DNM=5-044						
DNM=5-071	02	FILLER	BL=1	0BB	DNM=5-071	DS 161C	DISP				
DNM=5-090	01	ESDS-AKEY02	BL=1	160	DNM=5-090	DS 0CL196	GROUP				
DNM=5-114	02	VSIO-DDNAME	BL=1	160	DNM=5-114	DS 8C	DISP				
DNM=5-138	02	VSIO-ORGANIZATION	BL=1	168	DNM=5-138	DS 4C	DISP				
DNM=5-168	02	VSIO-ACCESS	BL=1	16C	DNM=5-168	DS 10C	DISP				
DNM=5-192	02	VSIO-MODE	BL=1	176	DNM=5-192	DS 6C	DISP				
DNM=5-214	02	VSIO-RECORD-LENGTH	BL=1	17C	DNM=5-214	DS 2C	COMP				
DNM=5-245	02	VSIO-KEY-ARGUMENT	BL=1	17E	DNM=5-245	DS 0CL4	GROUP				
DNM=5-278	03	VSIO-KEY-POSITION	BL=1	17E	DNM=5-278	DS 2C	COMP				
DNM=5-308	03	VSIO-KEY-LENGTH	BL=1	180	DNM=5-308	DS 2C	COMP				
DNM=5-336	02	VSIO-RELATIVE-RECORD	BL=1	17E	DNM=5-336	DS 4C	COMP	R			
DNM=5-369	02	FILLER	BL=1	182	DNM=5-369	DS 1C	DISP				
DNM=5-391	88	VSIO-FILE-OPEN			DNM=5-391						
DNM=5-419	88	VSIO-FILE-CLOSED			DNM=5-419						
DNM=5-449	02	FILLER	BL=1	183	DNM=5-449	DS 161C	DISP				
DNM=5-468	01	ESDS-AKEY03	BL=1	228	DNM=5-468	DS 0CL196	GROUP				
DNM=6-000	02	VSIO-DDNAME	BL=1	228	DNM=6-000	DS 8C	DISP				
DNM=6-024	02	VSIO-ORGANIZATION	BL=1	230	DNM=6-024	DS 4C	DISP				
DNM=6-054	02	VSIO-ACCESS	BL=1	234	DNM=6-054	DS 10C	DISP				
DNM=6-078	02	VSIO-MODE	BL=1	23E	DNM=6-078	DS 6C	DISP				
DNM=6-100	02	VSIO-RECORD-LENGTH	BL=1	244	DNM=6-100	DS 2C	COMP				
DNM=6-131	02	VSIO-KEY-ARGUMENT	BL=1	246	DNM=6-131	DS 0CL4	GROUP				
DNM=6-164	03	VSIO-KEY-POSITION	BL=1	246	DNM=6-164	DS 2C	COMP				
DNM=6-194	03	VSIO-KEY-LENGTH	BL=1	248	DNM=6-194	DS 2C	COMP				
DNM=6-222	02	VSIO-RELATIVE-RECORD	BL=1	246	DNM=6-222	DS 4C	COMP	R			
DNM=6-255	02	FILLER	BL=1	24A	DNM=6-255	DS 1C	DISP				
DNM=6-277	88	VSIO-FILE-OPEN			DNM=6-277						
DNM=6-305	88	VSIO-FILE-CLOSED			DNM=6-305						
DNM=6-335	02	FILLER	BL=1	24B	DNM=6-335	DS 161C	DISP				
DNM=6-354	01	ESDS-AKEY04	BL=1	2F0	DNM=6-354	DS 0CL196	GROUP				
DNM=6-378	02	VSIO-DDNAME	BL=1	2F0	DNM=6-378	DS 8C	DISP				
DNM=6-402	02	VSIO-ORGANIZATION	BL=1	2F8	DNM=6-402	DS 4C	DISP				
DNM=6-432	02	VSIO-ACCESS	BL=1	2FC	DNM=6-432	DS 10C	DISP				
DNM=6-456	02	VSIO-MODE	BL=1	306	DNM=6-456	DS 6C	DISP				
DNM=6-478	02	VSIO-RECORD-LENGTH	BL=1	30C	DNM=6-478	DS 2C	COMP				
DNM=7-000	02	VSIO-KEY-ARGUMENT	BL=1	30E	DNM=7-000	DS 0CL4	GROUP				
DNM=7-033	03	VSIO-KEY-POSITION	BL=1	30E	DNM=7-033	DS 2C	COMP				
DNM=7-063	03	VSIO-KEY-LENGTH	BL=1	310	DNM=7-063	DS 2C	COMP				
DNM=7-091	02	VSIO-RELATIVE-RECORD	BL=1	30E	DNM=7-091	DS 4C	COMP	R			
DNM=7-124	02	FILLER	BL=1	312	DNM=7-124	DS 1C	DISP				
DNM=7-146	88	VSIO-FILE-OPEN			DNM=7-146						
DNM=7-174	88	VSIO-FILE-CLOSED			DNM=7-174						
DNM=7-204	02	FILLER	BL=1	313	DNM=7-204	DS 161C	DISP				
DNM=7-223	01	ESDS-RECORD-FIELDS	BL=1	3B8	DNM=7-223	DS 0CL148	GROUP				
DNM=7-254	02	ESDS-STUDENT-NUMBER	BL=1	3B8	DNM=7-254	DS 9C	DISP-NM				
DNM=7-283	02	ESDS-FIRST-NAME	BL=1	3C1	DNM=7-283	DS 11C	DISP				
DNM=7-308	02	ESDS-MINITIAL	BL=1	3CC	DNM=7-308	DS 1C	DISP				
DNM=7-331	02	ESDS-LAST-NAME	BL=1	3CD	DNM=7-331	DS 10C	DISP				
DNM=7-355	02	ESDS-STREET	BL=1	3D7	DNM=7-355	DS 35C	DISP				
DNM=7-376	02	ESDS-STATE-CITY	BL=1	3FA	DNM=7-376	DS 0CL22	GROUP				
DNM=7-404	03	ESDS-STATE	BL=1	3FA	DNM=7-404	DS 2C	DISP				
DNM=7-424	03	ESDS-CITY	BL=1	3FC	DNM=7-424	DS 20C	DISP				
DNM=7-443	02	ESDS-ZIPCODE	BL=1	410	DNM=7-443	DS 5C	DISP				

INTRNL NAME	LVL	SOURCE NAME	BASE	DISPL	INTRNL NAME	DEFINITION	USAGE	R	O	Q	M
DNM=7-465	02	ESDS-DATE1	BL=1	415	DNM=7-465	DS 8C	DISP				
DNM=7-485	02	ESDS-DATE2	BL=1	41D	DNM=7-485	DS 8C	DISP				
DNM=8-000	02	ESDS-DATE3	BL=1	425	DNM=8-000	DS 8C	DISP				
DNM=8-020	02	ESDS-GENDER	BL=1	42D	DNM=8-020	DS 1C	DISP				
DNM=8-041	02	ESDS-PRINT-NAME	BL=1	42E	DNM=8-041	DS 30C	DISP				

```
*STATISTICS*      SOURCE RECORDS =   628      DATA DIVISION STATEMENTS =   120      PROCEDURE DIVISION STATEMENTS =   177
*OPTIONS IN EFFECT*  SIZE = 2097152  BUF = 1048576  LINECNT = 57  SPACE1, FLAGW,  SEQ,  SOURCE
*OPTIONS IN EFFECT*    DMAP, NOPMAP, NOCLIST,  SUPMAP, NOXREF,  LOAD, NODECK, APOST, NOTRUNC,  LIB, NOVERB
*OPTIONS IN EFFECT*    ZWB
```

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

CROSS REFERENCE TABLE

CONTROL SECTION			ENTRY							
NAME	ORIGIN	LENGTH	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION	NAME	LOCATION
KSDSREAD	00	1A5E								
ILBODSP0*	1A60	700								
ILBOSTP0*	2160	35								
			ILBOSTP1	2176						
VSAMIO *	2198	D0A								

LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION	LOCATION	REFERS TO SYMBOL	IN CONTROL SECTION
6F8	ILBOSTP0	ILBOSTP0	6FC	ILBOSTP1	ILBOSTP0
700	ILBODSP0	ILBODSP0	704	VSAMIO	VSAMIO

ENTRY ADDRESS 00

TOTAL LENGTH 2EA8

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

AUTHORIZATION CODE IS 0.

READING ESDS SEQUENTIALLY USING AIX #1

-----

KEY: 132835841					
RECORD: 132835841	Andrew	UStone	316 Northfield Street	NEKearney	688481944052019270221192
00520M	Stone, Andrew U.				
KEY: 138949393					
RECORD: 138949393	Kimberly	TGaston	914 Benson Avenue	NYRochester	038401963022019461214196
00628F	Gaston, Kimberly T.				
KEY: 182663428					
RECORD: 182663428	Kevin	MAlexander	817 Main Street	CALos Angeles	900771947120819420622191
80203M	Alexander, Kevin M.				
KEY: 184324763					
RECORD: 184324763	Tammy	PGarland	509 Kings Ridge Road	AKAnchorage	995081941041419371221193
90730F	Garland, Tammy P.				
KEY: 198587136					
RECORD: 198587136	Kimberly	OLabroie	316 Burwell Avenue	NYBuffalo	142251935122119200405194
30622F	Labroie, Kimberly O.				
KEY: 214185587					
RECORD: 214185587	Matthew	DERickson	603 Garden Road	CAPalm Desert	922111951042119080402193
50717M	Erickson, Matthew D.				
KEY: 235391647					
RECORD: 235391647	Joan	QNewton	814 Northcross Street	NVSparks	894311928123019310302196
30327F	Newton, Joan Q.				
KEY: 263599684					
RECORD: 263599684	Janet	IRandall	915 Burwell Street	FLFort Lauderdale	333041946022019441117194
20701F	Randall, Janet I.				
KEY: 285676861					
RECORD: 285676861	Laurie	DMeehan	817 River Oaks Place	TXStephenville	764011975022219640702193
40823F	Meehan, Laurie D.				
KEY: 287615292					
RECORD: 287615292	Lucy	SJackson	404 Industrial Avenue	CAPasadena	911861923030819440925193
20411F	Jackson, Lucy S.				
KEY: 291919717					
RECORD: 291919717	Everett	EYaeger	512 Rosewood Court	FLTampa	336191925070619610701192
91115M	Yaeger, Everett E.				
KEY: 316478373					
RECORD: 316478373	Christopher	JFontaine	408 Hillside Street	ALMontgomery	361091918012919481114193
70108M	Fontaine, Christopher J.				
KEY: 328258762					
RECORD: 328258762	Clara	TShriver	316 Bayview Street	CASan Diego	921541948040219350331194
60509F	Shriver, Clara T.				
KEY: 347185837					
RECORD: 347185837	Nelson	JJackson	915 Sun Meadow Court	CABerkeley	947041908112019581122192
70331M	Jackson, Nelson J.				
KEY: 356635856					



RECORD: 356635856 50212MErwin, Joseph A.	AErwin	606 Walden Court	SDSioux Falls	571121937071219370330195
KEY: 358175813 RECORD: 358175813 70809FJJackson, Jill W.	WJackson	313 Parson Street	DCWashington	200091941073019420624195
KEY: 363312694 RECORD: 363312694 10917FTucker, Laurie V.	VTucker	615 Southland Street	AZPrescott	863141958061519371221193
KEY: 363347692 RECORD: 363347692 80203FRight, Dawn L.	LRight	210 Hillside Court	CASan Diego	921541947092619640313191
KEY: 377431773 RECORD: 377431773 10121MGGoodwin, Bill Z.	ZGoodwin	213 Carbondale Blvd	TXStephenville	764011949112819610701194
KEY: 385347244 RECORD: 385347244 51001FLockett, Heather N.	NLockett	901 Kings Ridge Street	NYBuffalo	142251960071519420624193
KEY: 426188931 RECORD: 426188931 80531MRoss, Jesse K.	KRoss	417 Sunset Circle	CTNorwalk	068541928052319150610190
KEY: 431294133 RECORD: 431294133 10609FGerblick, Michelle B.	BGerblick	401 Coliseum Street	MAPeabody	019611935021619260603196
KEY: 453527364 RECORD: 453527364 90624MMcCollum, Russell I.	IMcCollum	561 Forest Blvd	TXDenton	762011933031419350301194
KEY: 468383742 RECORD: 468383742 40218FEubanks, Marilyn F.	FEubanks	918 Allen Place	OREugene	974021923081019440602196
KEY: 486292814 RECORD: 486292814 20713FDrake, Sharon U.	UDrake	617 Rocky Top Avenue	WAEverett	982041943020619280407194
KEY: 499116185 RECORD: 499116185 60604MBrockton, Ronald P.	PBrockton	406 Sheridan Blvd	IDBoise	837141943060819280810193
KEY: 522394818 RECORD: 522394818 50212FWhite, Lucy A.	AWhite	617 Shore Street	NMAlbuquerque	871081925112419201206195
KEY: 527875614 RECORD: 527875614 10921MTucker, Louis T.	TTucker	303 Bishop Court	ALMontgomery	361091935082619620703193
KEY: 528178859 RECORD: 528178859 50910FRoss, Virginia K.	KRoss	208 Millbrook Street	NCCharlotte	282621947090619600630194
KEY: 548368474 RECORD: 548368474	UAlexander	313 Charleston Road	NCCharlotte	282621928123019600630192

20604MAlexander, Adolf U. KEY: 548589791 RECORD: 548589791Cheryl 60513FGlassman, Cheryl P.	PGlassman	401 Rosa Linda Road	CTNorwalk	068541960071519461214192
KEY: 551681732 RECORD: 551681732Laurie 20805FRight, Laurie R.	RRight	520 Industrial Street	WIMadison	537041941100319280620196
KEY: 574258875 RECORD: 574258875John 51213MErvin, John T.	TErvin	860 Sand Creek Street	FLWest Bradenton	342101931090419200325192
KEY: 611775693 RECORD: 611775693William 70622MMull, William T.	TMull	760 Caribbean Circle	NYRochester	038401925081519461106191
KEY: 619627118 RECORD: 619627118Louise 60211FGoodlow, Louise J.	JGoodlow	512 Brandywine Place	GARoswell	300751933031419090103192
KEY: 628967391 RECORD: 628967391Michelle 70830FErickson, Michelle V.	VErickson	281 Jackson Blvd	TNKnoxville	379321947092619440602190
KEY: 633182664 RECORD: 633182664Rebecca 70518FHammond, Rebecca U.	UHammond	617 Rosewood Place	TXFort Worth	761191970042919590810198
KEY: 644283697 RECORD: 644283697Ann 60819FBrockton, Ann N.	NBrockton	315 Barnaby Court	PAPittsburgh	152261943032219220619194
KEY: 663383385 RECORD: 663383385Matthew 71229MDoren, Matthew S.	SDoren	914 Balboa Street	MIDetroit	482051935122119241001194
KEY: 727647183 RECORD: 727647183Michelle 40629FBenson, Michelle Z.	ZBenson	608 Ridgeway Circle	CALos Angeles	900771939021019500531194
KEY: 736261961 RECORD: 736261961Lucy 10921FMartin, Lucy L.	LMartin	404 Sherwood Court	FLFort Lauderdale	333041930053119490707193
KEY: 757585718 RECORD: 757585718Patty 71216FAlexander, Patty R.	RAlexander	212 Burwell Place	CTNorwalk	068541928052319531208191
KEY: 772495714 RECORD: 772495714Laurie 50212FRodgers, Laurie V.	VRodgers	512 Quail Court	MTMissoula	598021954090719410830195
KEY: 818827383 RECORD: 818827383Troy 90624MHorton, Troy C.	CHorton	602 Buckley Avenue	SDSioux Falls	571121925112419440117194
KEY: 857367651 RECORD: 857367651Harold 10917MConley, Harold C.	CConley	505 Coliseum Place	TXFort Worth	761191962061919530515193

KEY: 918584355  
RECORD: 918584355Craig EYaeger 713 Barnaby Place CANewport Beach 926631918012919340122194  
20719MYaeger, Craig E.

KEY: 919731934  
RECORD: 919731934Robert VThatcher 915 Jackson Blvd FLFort Lauderdale 333041923081019400918193  
00805MThatcher, Robert V.

KEY: 951585882  
RECORD: 951585882Scott XHorton 203 Apple Valley Place KYGreenville 423451923052619290416190  
80712MHorton, Scott X.

KEY: 984672319  
RECORD: 984672319Bill XTrujillo 210 Northfield Place GARoswell 300751937090519180329193  
90206MTrujillo, Bill X.

KEY: 988852215  
RECORD: 988852215Sharon BAlan 510 Apple Valley Street TNKnoxville 379321922072619460520192  
51213FAlan, Sharon B.

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READING ESDS SEQUENTIALLY USING AIX #2  
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KEY: Alan, Sharon B.  
RECORD: 988852215Sharon BAlan 510 Apple Valley Street TNKnoxville 379321922072619460520192  
51213FAlan, Sharon B.

KEY: Alexander, Adolf U.  
RECORD: 548368474Adolf UAlexander 313 Charleston Road NCCharlotte 282621928123019600630192  
20604MAlexander, Adolf U.

KEY: Alexander, Kevin M.  
RECORD: 182663428Kevin MAlexander 817 Main Street CALos Angeles 900771947120819420622191  
80203MAlexander, Kevin M.

KEY: Alexander, Patty R.  
RECORD: 757585718Patty RAlexander 212 Burwell Place CTNorwalk 068541928052319531208191  
71216FAlexander, Patty R.

KEY: Benson, Michelle Z.  
RECORD: 727647183Michelle ZBenson 608 Ridgeway Circle CALos Angeles 900771939021019500531194  
40629FBenson, Michelle Z.

KEY: Brockton, Ann N.  
RECORD: 644283697Ann NBrockton 315 Barnaby Court PAPittsburgh 152261943032219220619194  
60819FBrockton, Ann N.

KEY: Brockton, Ronald P.  
RECORD: 499116185Ronald PBrockton 406 Sheridan Blvd IDBoise 837141943060819280810193  
60604MBrockton, Ronald P.

KEY: Conley, Harold C.  
RECORD: 857367651Harold CConley 505 Coliseum Place TXFort Worth 761191962061919530515193  
10917MConley, Harold C.

KEY: Doren, Matthew S.  
RECORD: 663383385Matthew SDoren 914 Balboa Street MIDetroit 482051935122119241001194  
71229MDoren, Matthew S.

KEY: Drake, Sharon U. RECORD: 486292814Sharon 20713FD Drake, Sharon U.	UDrake	617 Rocky Top Avenue	WAEverett	982041943020619280407194
KEY: Erickson, Matthew D. RECORD: 214185587Matthew 50717ME Erickson, Matthew D.	DErickson	603 Garden Road	CAPalm Desert	922111951042119080402193
KEY: Erickson, Michelle V. RECORD: 628967391Michelle 70830FE Erickson, Michelle V.	VERickson	281 Jackson Blvd	TNKnoxville	379321947092619440602190
KEY: Ervin, John T. RECORD: 574258875John 51213ME Ervin, John T.	TErvin	860 Sand Creek Street	FLWest Bradenton	342101931090419200325192
KEY: Erwin, Joseph A. RECORD: 356635856Joseph 50212ME Erwin, Joseph A.	AErwin	606 Walden Court	SDSioux Falls	571121937071219370330195
KEY: Eubanks, Marilyn F. RECORD: 468383742Marilyn 40218FE Eubanks, Marilyn F.	FEubanks	918 Allen Place	OREugene	974021923081019440602196
KEY: Fontaine, Christopher J. RECORD: 316478373ChristopherJ 70108MF Fontaine, Christopher J.	JFontaine	408 Hillside Street	ALMontgomery	361091918012919481114193
KEY: Garland, Tammy P. RECORD: 184324763Tammy 90730FG Garland, Tammy P.	PGarland	509 Kings Ridge Road	AKAnchorage	995081941041419371221193
KEY: Gaston, Kimberly T. RECORD: 138949393Kimberly 00628FG Gaston, Kimberly T.	TGaston	914 Benson Avenue	NYRochester	038401963022019461214196
KEY: Gerblick, Michelle B. RECORD: 431294133Michelle 10609FG Gerblick, Michelle B.	BGerblick	401 Coliseum Street	MAPeabody	019611935021619260603196
KEY: Glassman, Cheryl P. RECORD: 548589791Cheryl 60513FG Glassman, Cheryl P.	PGlassman	401 Rosa Linda Road	CTNorwalk	068541960071519461214192
KEY: Goodlow, Louise J. RECORD: 619627118Louise 60211FG Goodlow, Louise J.	JGoodlow	512 Brandywine Place	GARoswell	300751933031419090103192
KEY: Goodwin, Bill Z. RECORD: 377431773Bill 10121MG Goodwin, Bill Z.	ZGoodwin	213 Carbondale Blvd	TXStephenville	764011949112819610701194
KEY: Hammond, Rebecca U. RECORD: 633182664Rebecca 70518FH Hammond, Rebecca U.	UHammond	617 Rosewood Place	TXFort Worth	761191970042919590810198
KEY: Horton, Scott X. RECORD: 951585882Scott 80712MH Horton, Scott X.	XHorton	203 Apple Valley Place	KYGreenville	423451923052619290416190

KEY: Horton, Troy C. RECORD: 818827383Troy 90624MHorton, Troy C.	CHorton	602 Buckley Avenue	SDSioux Falls	571121925112419440117194
KEY: Jackson, Jill W. RECORD: 358175813Jill 70809FJackson, Jill W.	WJackson	313 Parson Street	DCWashington	200091941073019420624195
KEY: Jackson, Lucy S. RECORD: 287615292Lucy 20411FJackson, Lucy S.	SJackson	404 Industrial Avenue	CAPasadena	911861923030819440925193
KEY: Jackson, Nelson J. RECORD: 347185837Nelson 70331MJackson, Nelson J.	JJackson	915 Sun Meadow Court	CABerkeley	947041908112019581122192
KEY: Labroie, Kimberly O. RECORD: 198587136Kimberly 30622FLabroie, Kimberly O.	OLabroie	316 Burwell Avenue	NYBuffalo	142251935122119200405194
KEY: Lockett, Heather N. RECORD: 385347244Heather 51001FLockett, Heather N.	NLockett	901 Kings Ridge Street	NYBuffalo	142251960071519420624193
KEY: Martin, Lucy L. RECORD: 736261961Lucy 10921FMartin, Lucy L.	LMartin	404 Sherwood Court	FLFort Lauderdale	333041930053119490707193
KEY: McCollum, Russell I. RECORD: 453527364Russell 90624MMcCollum, Russell I.	IMcCollum	561 Forest Blvd	TXDenton	762011933031419350301194
KEY: Meehan, Laurie D. RECORD: 285676861Laurie 40823FMeehan, Laurie D.	DMeehan	817 River Oaks Place	TXStephenville	764011975022219640702193
KEY: Mull, William T. RECORD: 611775693William 70622MMull, William T.	TMull	760 Caribbean Circle	NYRochester	038401925081519461106191
KEY: Newton, Joan Q. RECORD: 235391647Joan 30327FNNewton, Joan Q.	QNewton	814 Northcross Street	NVSparks	894311928123019310302196
KEY: Randall, Janet I. RECORD: 263599684Janet 20701FRandall, Janet I.	IRandall	915 Burwell Street	FLFort Lauderdale	333041946022019441117194
KEY: Right, Dawn L. RECORD: 363347692Dawn 80203FRight, Dawn L.	LRight	210 Hillside Court	CASan Diego	921541947092619640313191
KEY: Right, Laurie R. RECORD: 551681732Laurie 20805FRight, Laurie R.	RRight	520 Industrial Street	WIMadison	537041941100319280620196
KEY: Rodgers, Laurie V. RECORD: 772495714Laurie 50212FRodgers, Laurie V.	VRodgers	512 Quail Court	MTMissoula	598021954090719410830195
KEY: Ross, Jesse K.				

RECORD: 426188931 80531M	Jesse Ross, Jesse K.	KRoss	417 Sunset Circle	CTNorwalk	068541928052319150610190
KEY: Ross, Virginia K. RECORD: 528178859 50910F	Virginia Ross, Virginia K.	KRoss	208 Millbrook Street	NCCharlotte	282621947090619600630194
KEY: Shriver, Clara T. RECORD: 328258762 60509F	Clara Shriver, Clara T.	TShriver	316 Bayview Street	CASan Diego	921541948040219350331194
KEY: Stone, Andrew U. RECORD: 132835841 00520M	Andrew Stone, Andrew U.	UStone	316 Northfield Street	NEKearney	688481944052019270221192
KEY: Thatcher, Robert V. RECORD: 919731934 00805M	Robert Thatcher, Robert V.	VThatcher	915 Jackson Blvd	FLFort Lauderdale	333041923081019400918193
KEY: Trujillo, Bill X. RECORD: 984672319 90206M	Bill Trujillo, Bill X.	XTrujillo	210 Northfield Place	GARoswell	300751937090519180329193
KEY: Tucker, Laurie V. RECORD: 363312694 10917F	Laurie Tucker, Laurie V.	VTucker	615 Southland Street	AZPrescott	863141958061519371221193
KEY: Tucker, Louis T. RECORD: 527875614 10921M	Louis Tucker, Louis T.	TTucker	303 Bishop Court	ALMontgomery	361091935082619620703193
KEY: White, Lucy A. RECORD: 522394818 50212F	Lucy White, Lucy A.	AWhite	617 Shore Street	NMAlbuquerque	871081925112419201206195
KEY: Yaeger, Craig E. RECORD: 918584355 20719M	Craig Yaeger, Craig E.	EYaeger	713 Barnaby Place	CANewport Beach	926631918012919340122194
KEY: Yaeger, Everett E. RECORD: 291919717 91115M	Everett Yaeger, Everett E.	EYaeger	512 Rosewood Court	FLTampa	336191925070619610701192

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READING ESDS SEQUENTIALLY USING AIX #3  
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KEY: AKAnchorage RECORD: 184324763 90730F	Tammy Garland, Tammy P.	PGarland	509 Kings Ridge Road	AKAnchorage	995081941041419371221193
KEY: ALMontgomery RECORD: 527875614 10921M	Louis Tucker, Louis T.	TTucker	303 Bishop Court	ALMontgomery	361091935082619620703193
KEY: ALMontgomery RECORD: 316478373 70108M	Christopher Fontaine, Christopher J.	JFontaine	408 Hillside Street	ALMontgomery	361091918012919481114193

KEY: AZPrescott

RECORD: 363312694 10917FTucker, Laurie V.	VTucker	615 Southland Street	AZPrescott	863141958061519371221193
KEY: CABerkeley RECORD: 347185837 70331MJackson, Nelson J.	JJackson	915 Sun Meadow Court	CABerkeley	947041908112019581122192
KEY: CALos Angeles RECORD: 727647183 40629FBenson, Michelle Z.	ZBenson	608 Ridgeway Circle	CALos Angeles	900771939021019500531194
KEY: CALos Angeles RECORD: 182663428 80203MAlexander, Kevin M.	MAlexander	817 Main Street	CALos Angeles	900771947120819420622191
KEY: CANewport Beach RECORD: 918584355 20719MYaeger, Craig E.	EYaeger	713 Barnaby Place	CANewport Beach	926631918012919340122194
KEY: CAPalm Desert RECORD: 214185587 50717MERickson, Matthew D.	DERickson	603 Garden Road	CAPalm Desert	922111951042119080402193
KEY: CAPasadena RECORD: 287615292 20411FJackson, Lucy S.	SJackson	404 Industrial Avenue	CAPasadena	911861923030819440925193
KEY: CASan Diego RECORD: 328258762 60509FShriver, Clara T.	TShriver	316 Bayview Street	CASan Diego	921541948040219350331194
KEY: CASan Diego RECORD: 363347692 80203FRight, Dawn L.	LRight	210 Hillside Court	CASan Diego	921541947092619640313191
KEY: CTNorwalk RECORD: 757585718 71216FAlexander, Patty R.	RAlexander	212 Burwell Place	CTNorwalk	068541928052319531208191
KEY: CTNorwalk RECORD: 426188931 80531MRoss, Jesse K.	KRoss	417 Sunset Circle	CTNorwalk	068541928052319150610190
KEY: CTNorwalk RECORD: 548589791 60513FGlassman, Cheryl P.	PGlassman	401 Rosa Linda Road	CTNorwalk	068541960071519461214192
KEY: DCWashington RECORD: 358175813 70809FJackson, Jill W.	WJackson	313 Parson Street	DCWashington	200091941073019420624195
KEY: FLFort Lauderdale RECORD: 919731934 00805MThatcher, Robert V.	VThatcher	915 Jackson Blvd	FLFort Lauderdale	333041923081019400918193
KEY: FLFort Lauderdale RECORD: 736261961 10921FMartin, Lucy L.	LMartin	404 Sherwood Court	FLFort Lauderdale	333041930053119490707193
KEY: FLFort Lauderdale RECORD: 263599684 Janet	IRandall	915 Burwell Street	FLFort Lauderdale	333041946022019441117194

20701FRandall, Janet I. KEY: FLTampa RECORD: 291919717Everett 91115MYaeger, Everett E.	EYaeger	512 Rosewood Court	FLTampa	336191925070619610701192
KEY: FLWest Bradenton RECORD: 574258875John 51213MErvin, John T.	TErvin	860 Sand Creek Street	FLWest Bradenton	342101931090419200325192
KEY: GARoswell RECORD: 619627118Louise 60211FGoodlow, Louise J.	JGoodlow	512 Brandywine Place	GARoswell	300751933031419090103192
KEY: GARoswell RECORD: 984672319Bill 90206MTrujillo, Bill X.	XTrujillo	210 Northfield Place	GARoswell	300751937090519180329193
KEY: IDBoise RECORD: 499116185Ronald 60604MBrockton, Ronald P.	PBrockton	406 Sheridan Blvd	IDBoise	837141943060819280810193
KEY: KYGreenville RECORD: 951585882Scott 80712MHorton, Scott X.	XHorton	203 Apple Valley Place	KYGreenville	423451923052619290416190
KEY: MAPeabody RECORD: 431294133Michelle 10609FGerblick, Michelle B.	BGerblick	401 Coliseum Street	MAPeabody	019611935021619260603196
KEY: MIDetroit RECORD: 663383385Matthew 71229MDoren, Matthew S.	SDoren	914 Balboa Street	MIDetroit	482051935122119241001194
KEY: MTMissoula RECORD: 772495714Laurie 50212FRodgers, Laurie V.	VRodgers	512 Quail Court	MTMissoula	598021954090719410830195
KEY: NCCharlotte RECORD: 528178859Virginia 50910FRoss, Virginia K.	KRoss	208 Millbrook Street	NCCharlotte	282621947090619600630194
KEY: NCCharlotte RECORD: 548368474Adolf 20604MAlexander, Adolf U.	UAlexander	313 Charleston Road	NCCharlotte	282621928123019600630192
KEY: NEKearney RECORD: 132835841Andrew 00520MStone, Andrew U.	UStone	316 Northfield Street	NEKearney	688481944052019270221192
KEY: NMAbuquerque RECORD: 522394818Lucy 50212FWhite, Lucy A.	AWhite	617 Shore Street	NMAbuquerque	871081925112419201206195
KEY: NVSparks RECORD: 235391647Joan 30327FNewton, Joan Q.	QNewton	814 Northcross Street	NVSparks	894311928123019310302196
KEY: NYBuffalo RECORD: 198587136Kimberly 30622FLabroie, Kimberly O.	OLabroie	316 Burwell Avenue	NYBuffalo	142251935122119200405194



KEY: NYBuffalo RECORD: 385347244Heather 51001FLockett, Heather N.	NLockett	901 Kings Ridge Street	NYBuffalo	142251960071519420624193
KEY: NYRochester RECORD: 611775693William 70622MMull, William T.	TMull	760 Caribbean Circle	NYRochester	038401925081519461106191
KEY: NYRochester RECORD: 138949393Kimberly 00628FGaston, Kimberly T.	TGaston	914 Benson Avenue	NYRochester	038401963022019461214196
KEY: OREugene RECORD: 468383742Marilyn 40218FEubanks, Marilyn F.	FEubanks	918 Allen Place	OREugene	974021923081019440602196
KEY: PAPittsburgh RECORD: 644283697Ann 60819FBrockton, Ann N.	NBrockton	315 Barnaby Court	PAPittsburgh	152261943032219220619194
KEY: SDSioux Falls RECORD: 356635856Joseph 50212MERwin, Joseph A.	AErwin	606 Walden Court	SDSioux Falls	571121937071219370330195
KEY: SDSioux Falls RECORD: 818827383Troy 90624MHorton, Troy C.	CHorton	602 Buckley Avenue	SDSioux Falls	571121925112419440117194
KEY: TNKnoxville RECORD: 628967391Michelle 70830FErickson, Michelle V.	VERickson	281 Jackson Blvd	TNKnoxville	379321947092619440602190
KEY: TNKnoxville RECORD: 988852215Sharon 51213FAlan, Sharon B.	BAlan	510 Apple Valley Street	TNKnoxville	379321922072619460520192
KEY: TXDenton RECORD: 453527364Russell 90624MMcCollum, Russell I.	IMcCollum	561 Forest Blvd	TXDenton	762011933031419350301194
KEY: TXFort Worth RECORD: 633182664Rebecca 70518FHammond, Rebecca U.	UHammond	617 Rosewood Place	TXFort Worth	761191970042919590810198
KEY: TXFort Worth RECORD: 857367651Harold 10917MConley, Harold C.	CConley	505 Coliseum Place	TXFort Worth	761191962061919530515193
KEY: TXStephenville RECORD: 377431773Bill 10121MGoodwin, Bill Z.	ZGoodwin	213 Carbondale Blvd	TXStephenville	764011949112819610701194
KEY: TXStephenville RECORD: 285676861Laurie 40823FMeehan, Laurie D.	DMeehan	817 River Oaks Place	TXStephenville	764011975022219640702193
KEY: WAEverett RECORD: 486292814Sharon 20713FDrake, Sharon U.	UDrake	617 Rocky Top Avenue	WAEverett	982041943020619280407194

KEY: WIMadison RECORD: 551681732 20805FRight, Laurie R.	RRight	520 Industrial Street	WIMadison	537041941100319280620196
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READING ESDS SEQUENTIALLY USING AIX #4				
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KEY: 19081120 RECORD: 347185837 70331MJackson, Nelson J.	JJackson	915 Sun Meadow Court	CABerkeley	947041908112019581122192
KEY: 19180129 RECORD: 918584355 20719MYaeger, Craig E.	EYaeger	713 Barnaby Place	CANewport Beach	926631918012919340122194
KEY: 19180129 RECORD: 316478373 70108MFontaine, Christopher J.	JFontaine	408 Hillside Street	ALMontgomery	361091918012919481114193
KEY: 19220726 RECORD: 988852215 51213FAlan, Sharon B.	BAlan	510 Apple Valley Street	TNKnoxville	379321922072619460520192
KEY: 19230308 RECORD: 287615292 20411FJackson, Lucy S.	SJackson	404 Industrial Avenue	CAPasadena	911861923030819440925193
KEY: 19230526 RECORD: 951585882 80712MHorton, Scott X.	XHorton	203 Apple Valley Place	KYGreenville	423451923052619290416190
KEY: 19230810 RECORD: 919731934 00805MThatcher, Robert V.	VThatcher	915 Jackson Blvd	FLFort Lauderdale	333041923081019400918193
KEY: 19230810 RECORD: 468383742 40218FEubanks, Marilyn F.	FEubanks	918 Allen Place	OREugene	974021923081019440602196
KEY: 19250706 RECORD: 291919717 91115MYaeger, Everett E.	EYaeger	512 Rosewood Court	FLTampa	336191925070619610701192
KEY: 19250815 RECORD: 611775693 70622MMull, William T.	TMull	760 Caribbean Circle	NYRochester	038401925081519461106191
KEY: 19251124 RECORD: 522394818 50212FWhite, Lucy A.	AWhite	617 Shore Street	NMAlbuquerque	871081925112419201206195
KEY: 19251124 RECORD: 818827383 90624MHorton, Troy C.	CHorton	602 Buckley Avenue	SDSioux Falls	571121925112419440117194
KEY: 19280523 RECORD: 757585718 71216FAlexander, Patty R.	RAlexander	212 Burwell Place	CTNorwalk	068541928052319531208191

KEY: 19280523 RECORD: 426188931 80531M	Jesse Ross	417 Sunset Circle	CTNorwalk	068541928052319150610190
KEY: 19281230 RECORD: 548368474 20604MA	UAlexander	313 Charleston Road	NCCharlotte	282621928123019600630192
KEY: 19281230 RECORD: 235391647 30327FN	QNewton	814 Northcross Street	NVSparks	894311928123019310302196
KEY: 19300531 RECORD: 736261961 10921FM	LMartin	404 Sherwood Court	FLFort Lauderdale	333041930053119490707193
KEY: 19310904 RECORD: 574258875 51213ME	TErvin	860 Sand Creek Street	FLWest Bradenton	342101931090419200325192
KEY: 19330314 RECORD: 619627118 60211FG	JGoodlow	512 Brandywine Place	GARoswell	300751933031419090103192
KEY: 19330314 RECORD: 453527364 90624MM	IMcCollum	561 Forest Blvd	TXDenton	762011933031419350301194
KEY: 19350216 RECORD: 431294133 10609FG	BGerblick	401 Coliseum Street	MAPeabody	019611935021619260603196
KEY: 19350826 RECORD: 527875614 10921MT	TTucker	303 Bishop Court	ALMontgomery	361091935082619620703193
KEY: 19351221 RECORD: 198587136 30622FL	OLabroie	316 Burwell Avenue	NYBuffalo	142251935122119200405194
KEY: 19351221 RECORD: 663383385 71229MD	SDoren	914 Balboa Street	MIDetroit	482051935122119241001194
KEY: 19370712 RECORD: 356635856 50212ME	AErwin	606 Walden Court	SDSioux Falls	571121937071219370330195
KEY: 19370905 RECORD: 984672319 90206MT	XTrujillo	210 Northfield Place	GARoswell	300751937090519180329193
KEY: 19390210 RECORD: 727647183 40629FB	ZBenson	608 Ridgeway Circle	CALos Angeles	900771939021019500531194
KEY: 19410414 RECORD: 184324763 90730FG	PGarland	509 Kings Ridge Road	AKAnchorage	995081941041419371221193
KEY: 19410730				

RECORD: 358175813 70809F	Jill Jackson, Jill W.	WJackson	313 Parson Street	DCWashington	200091941073019420624195
KEY: 19411003 RECORD: 551681732 20805FR	Laurie Right, Laurie R.	RRight	520 Industrial Street	WIMadison	537041941100319280620196
KEY: 19430206 RECORD: 486292814 20713FD	Sharon Drake, Sharon U.	UDrake	617 Rocky Top Avenue	WAEverett	982041943020619280407194
KEY: 19430322 RECORD: 644283697 60819FB	Ann Brockton, Ann N.	NBrockton	315 Barnaby Court	PAPittsburgh	152261943032219220619194
KEY: 19430608 RECORD: 499116185 60604MB	Ronald Brockton, Ronald P.	PBrockton	406 Sheridan Blvd	IDBoise	837141943060819280810193
KEY: 19440520 RECORD: 132835841 00520M	Andrew Stone, Andrew U.	UStone	316 Northfield Street	NEKearney	688481944052019270221192
KEY: 19460220 RECORD: 263599684 20701FR	Janet Randall, Janet I.	IRandall	915 Burwell Street	FLFort Lauderdale	333041946022019441117194
KEY: 19470906 RECORD: 528178859 50910FR	Virginia Ross, Virginia K.	KRoss	208 Millbrook Street	NCCharlotte	282621947090619600630194
KEY: 19470926 RECORD: 628967391 70830FE	Michelle Erickson, Michelle V.	VERickson	281 Jackson Blvd	TNKnoxville	379321947092619440602190
KEY: 19470926 RECORD: 363347692 80203FR	Dawn Right, Dawn L.	LRight	210 Hillside Court	CASan Diego	921541947092619640313191
KEY: 19471208 RECORD: 182663428 80203MA	Kevin Alexander, Kevin M.	MAlexander	817 Main Street	CALos Angeles	900771947120819420622191
KEY: 19480402 RECORD: 328258762 60509FS	Clara Shriver, Clara T.	TShriver	316 Bayview Street	CASan Diego	921541948040219350331194
KEY: 19491128 RECORD: 377431773 10121MG	Bill Goodwin, Bill Z.	ZGoodwin	213 Carbondale Blvd	TXStephenville	764011949112819610701194
KEY: 19510421 RECORD: 214185587 50717ME	Matthew Erickson, Matthew D.	DERickson	603 Garden Road	CAPalm Desert	922111951042119080402193
KEY: 19540907 RECORD: 772495714 50212FR	Laurie Rodgers, Laurie V.	VRodgers	512 Quail Court	MTMissoula	598021954090719410830195
KEY: 19580615 RECORD: 363312694	Laurie Tucker	VTucker	615 Southland Street	AZPrescott	863141958061519371221193

10917FTucker, Laurie V.

KEY: 19600715

RECORD: 548589791Cheryl PGlassman 401 Rosa Linda Road CTNorwalk 068541960071519461214192  
60513FGlassman, Cheryl P.

KEY: 19600715

RECORD: 385347244Heather NLockett 901 Kings Ridge Street NYBuffalo 142251960071519420624193  
51001FLockett, Heather N.

KEY: 19620619

RECORD: 857367651Harold CConley 505 Coliseum Place TXFort Worth 761191962061919530515193  
10917MConley, Harold C.

KEY: 19630220

RECORD: 138949393Kimberly TGaston 914 Benson Avenue NYRochester 038401963022019461214196  
00628FGaston, Kimberly T.

KEY: 19700429

RECORD: 633182664Rebecca UHammond 617 Rosewood Place TXFort Worth 761191970042919590810198  
70518FHammond, Rebecca U.

KEY: 19750222

RECORD: 285676861Laurie DMeehan 817 River Oaks Place TXStephenville 764011975022219640702193  
40823FMeehan, Laurie D.

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