

ADDRESS LENGTH BINARY CONTROL CARDS.

| | | | |
|-----|-----|-------|--------|
| 0 | 257 | IDENT | FRWENT |
| 257 | | END | |

ENTRY POINTS.

| | | | | | | | | | | | |
|--------|---|---|---------|---|-----|---------|---|-----|--------|---|-----|
| FRWENT | - | 2 | FRETURN | - | 217 | ERRPARM | - | 177 | ERRMAP | - | 205 |
| FRWERR | - | 1 | RETURN | - | 225 | ERRFILE | - | 201 | | | |
| FRWINT | - | 0 | RETPAR | - | 233 | ERRALOC | - | 203 | | | |

EXTERNAL SYMBOLS.

| | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|
| MYINFO | AP6 | USRPACK | PBW | EXCLAIM | M.TVRES | GF.LEN | FR.ROOT |
| N.INFO | AP7 | IOTBUF | DBR | SHCLAIM | M.HELP | GF.SUSF | FR.CLAM |
| UDINFO | AP8 | PROCADR | DBW | LOCK | M.SWAB | GF.SUSL | FR.MEMB |
| USERAB | TEMPO | ERRADDR | GETRESP | UNLOCK | M.ABFCH | GF.IOTF | FHRADDR |
| OPERCL | TEMP1 | ERRPACK | TR.DRIV | UNLOCKW | M.ABFIL | GF.IOTL | FILEADR |
| IPLIST | TEMP2 | STKBUF | TR.LEVL | RELCLAM | M.ACREQ | GF.DDSF | LETFREE |
| COMMROP | TEMP3 | SETPCNT | BLK.SIZ | RELEASE | M.ACRES | GF.DDSL | LFHADDR |
| COMMROL | TEMP4 | DISKENT | BLK.DTY | FRW | M.USRCC | GF.DATE | DARADDR |
| COMMRWF | TEMP5 | DISKERR | BLK.FLG | MAKEMAP | M.FRWCC | GF.DATL | PAGESW |
| COMMRWL | TEMP6 | DISKINT | SW.SW | LOADBUF | M.TRMCC | GF.APTF | MAPBUFI |
| HOLDBLK | TEMP7 | ENTER | SW.DDS | AUDIT | M.CLOCC | GF.APTL | SIZES |
| LOCTAB | TEMP8 | CLKBUF | PG.PG | NOQLOCK | M.ACTCC | GF.HSHF | SIZE |
| LOCTABF | TEMP9 | DSYSTIM | PG.DDS | PROBE | M.TRYCC | FHRHASH | NUMRESP |
| LOCTABL | TEMP10 | DSWPTIM | PG.DTY | RETCLK | M.DFILT | DARHASH | CREATER |
| LFT | TEMP11 | DUSRIM | PTR.PTR | SYSERI | M.DOBJS | GF.HSHL | CREBLKR |
| FLDLEN | TEMPA | MYSCRF | PTR.DDS | CALBEAD | NOBJS | GF.TRVF | DELPLKR |
| USERRWF | TEMPB | MYCODE | PTR.CM | REGS | M.BFILE | FHB | OPENR |
| USERRWL | TEMPC | MYSUBP | PTR.DTY | D.ENTRY | M.DDREQ | FB.LEN | ATTACHR |
| DATMAP | TEMPD | MYEVCH | PTR.NUM | D.FNAME | M.DDRSP | FB.NAME | DETACHR |
| TERMRWL | TEMPE | READCAP | CREATE | DBUG1 | M.RBUFS | FB.WD3 | ZROMAPR |
| TERMRWF | TEMPF | WRITCAP | CREBLK | DSKLCK | M.WBUFS | FB.SHAP | CHMAPR |
| TERMRWF | TEMPG | SAVEREG | DELBLK | DBUG2 | M.SLOTS | FB.FUND | CHMAPBI |
| CLOSRWL | TEMPH | RESTREG | OPEN | M.AUTH | M.LOCKS | FHR | SETUPR |
| CLOSRWL | TEMPV | MAINCL | ATTACH | M.MKCAP | NLOCKS | FR.LEN | CREATBI |
| CLOSROF | TEMPW | FILCL | DETACH | REDSHP | M.DDSCT | FR.NAME | CLOSERI |
| READRWF | TEMPX | SLEEP | CONVERT | GDSKHDR | M.FHRL | FR.WD1 | MOVBLKR |
| READRWL | TEMPY | MYRESP | SETUP | FDSKHDR | M.DARL | FR.WD2 | CREPTRR |
| READONF | TEMPZ | RESP | DECODE | GDSKPTR | M.HASHL | FR.WD3 | DORESPR |
| READONL | MYIDENT | GFILE | CRELFH | FDSKPTR | M.ADDS | FR.SUSP | ERRNUM |
| HENTRY | MYDAR | HFILE | OPENDAR | GDSKDAT | M.ASUSP | FR.LOCK | ERRCLAS |
| DENTRY | MYUNIT | FILECAP | PRVOPEN | FDSKDAT | M.ADISK | FR.DAR | TABADDR |
| ORGADDR | MYSWOCC | CTEMP | MKPTR | GETDSK | M.SDISK | FR.OPEN | ECIFRET |
| ORGCLST | DDSIPL | UDSKSCR | DSPTR | FREEDSK | M.FDISK | FR.CAPX | ECIMCAP |
| ORGMAP | IOTIPL | BFILE | CLOSE | BUSYDSK | M.FCLEV | FR.DBSZ | ECICIN |
| INTDAT | HASHIPL | ODRSP | ECLOSE | L.MNCL | M.UNAME | FR.ONEL | ECIREAD |
| AP0 | SUSIPL | RBUFS | DARSPA | M.GFILE | M.USCTR | FR.FROZ | ECIRTRN |
| AP1 | DATIPL | RETRY | ZEROMAP | M.HFILE | M.OPCL | FR.WRIT | ECIDSSE |
| AP2 | APTIPL | SLOTS | CHMAP | M.FILCL | M.IOCTR | FR.SIZE | ECIESML |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
STORAGE ALLOCATION.

COMPASS - VER 2. 04/25/71 08.59.22.

PAGE

2

| | | | | | | | |
|-----|---------|-----|---------|---------|---------|---------|---------|
| AP3 | RETPARM | HBR | CLODAR | M.EMPTY | M.TWAIT | FR.SHAP | ECIRSTR |
| AP4 | RETERR | HBW | HASH | M.RETRY | M.CLTIM | FR.FUND | ECICLCK |
| AP5 | PASSERR | PBR | DELHASH | M.CLOSE | M.10SEC | FR.FLAG | ECISAVE |

| | | IDENT | FRWENT | |
|----|--------------|---------|-----------------------------|-----------------------------|
| 0 | | * | | |
| 0 | | * | | |
| 0 | | * | | |
| | | | | |
| 0 | | PARAMS | XTEXT | |
| 0 | | MACROS | XTEXT | |
| 0 | | SYSCALL | XTEXT | |
| | | * | | |
| | | | | |
| 0 | | EXT | MYINFO,N,INFO,UDINFO,USERAB | |
| | | EXT | OPERCL,IPLIST | |
| | | MACSET | OPERCL,IPLIST,ECS | |
| 0 | | ERRORS | XTEXT | |
| | | * | | |
| | | * | | |
| | | * | | |
| | | * | | |
| | | * | | |
| | | | | SUBPROCESS ENTRY POINT |
| 0 | 0100000000 X | FRWINT | RJ | SYSERR |
| 1 | 0200000016 * | FRWERR | JP | FRWERR1 |
| 2 | 0130000003 * | FRWENT | SAVE | USRPACK |
| 5 | 7160000000 X | | DSPCLK | CLKBUF |
| 12 | 5110000000 X | | SA1 | APO |
| | 7221777765 | | SX2 | X1-MAXACT |
| 13 | 0322000015 * | | PL | X2,FRWENT1 |
| | 63710 | | SB7 | X1 |
| 14 | 0270000052 * | | JP | ACTION+B7 |
| | | * | | JUMP TO ACTION ENTRY POINT |
| 15 | 0100000000 X | FRWENT1 | RJ | SYSERR |
| | | * | | ILLEGAL ACTION NUM |
| | | * | | |
| | | * | | |
| | | * | | |
| | | * | | |
| | | | | PROCESS ERROR IN ECS SYSTEM |
| 16 | 0130000017 * | FRWERR1 | SAVE | ERRPACK |
| 21 | 5150000000 X | | SAS | PROCADR |
| | 0305000033 * | | ZR | X5,FRWERR3 |
| | | * | | SAVE REGISTERS |
| | | | | GET ERROR PROCESSING ADDR |
| | | | | JP IF UNEXPECTED ERROR |
| 22 | 10655 | FRWERR2 | BX6 | X5 |
| | 5160000003 X | | SA6 | SETPCNT+3 |
| 23 | 7160000000 X | | SX6 | =XMSUBP |
| | 5160000001 X | | SA6 | SETPCNT+1 |
| 24 | 0130000000 X | | XJ | SETPCNT+1 |
| 25 | 0200000037 * | * | JP | FRWERR4 |
| 26 | | | BSS | 0 |
| 26 | 0130000043 * | | XJ | SETESM |
| 27 | 0130000030 * | | RESTORE | ERRPACK |
| 32 | 0130000051 * | | XJ | EXIT |
| 33 | 0130000046 * | FRWERR3 | XJ | VIEW |
| 34 | 5140000000 X | | SA4 | STKBUF |
| | | * | | UN-EXPECTED ERROR |
| | | | | RECORD PL-COUNTER |

WSPACE
GET

| | | | | |
|----|------------------------|---------|-------------------|--|
| | 73640 | SX6 | X4 | |
| 35 | 5160000000 X | SA6 | ERRADDR | |
| | 7150000040 + | SX5 | FRWERRS | |
| 36 | 0200000022 + | JP | FRWERR2 | |
| | * | | RETURN FROM ERROR | |
| 37 | 0100000000 X | FRWERR4 | RJ | SYSERR |
| 40 | 0100000000 X | FRWERR8 | BKPT | FCSE |
| 42 | 0100000000 X | | RJ | SYSERR |
| | * | | | |
| 43 | 4000000000 X | SETESM | VFD | 1/1,29/*T:;ECS#ESML,30/=XOPERCL,60/SETESM1 |
| | 0000000000 X | | | |
| 44 | 000000000000000045 + | | | |
| 45 | 77777777777700000000 | SETESM1 | VFD | 36/777777777777B,24/0 ESM MASK |
| 46 | 4000000000 X | VIEW | VFD | 1/1,29/*T:;ECS#DSSE,30/=XOPERCL,60/STKBUF,60/1 |
| | 0000000000 X | | | |
| 47 | 00000000000000000000 X | | | |
| 50 | 00000000000000000001 | | | |
| 51 | 4000000000 X | EXIT | VFD | 1/1,29/*T:;ECS#RTRN,30/=XOPERCL |
| | 0000000000 X | | | |

MACROS FOR ACTION TABLE

DSKOPER MACRO NAME
IFC EQ,/NAME/FINI/
JP L•NAME
ENDIF
ENDM

XDSKOPER MACRO NAME
JP L•NAME
ENDM

IDSKOPER MACRO NAME
JP L•NAME
ENDM

F-RETURN SUBPROCESS ACTION TABLE

52

ACTION BSS 0

52

DSKOPS XTEXT
LIST X

* LIST OF ALL CALLS ON DISKSYS (USED BY INITIALIZATION AND ENTRY)

52 0200000064 *

XDSKOPER READ,4,READ,=XFRETRW,0

DSKOPS

1

53 0200000076 +

XDSKOPER WRIT,4,WRIT,=XFRETRW,0

DSKOPS

1

DSKOPS

1

DSKOPS

1

DSKOPS

1

DSKOPS

1

DSKOPS

1

54 0200000176 +

IDSKOPER INID,=XUSRDSK,0

DSKOPS

1

DSKOPS

1

DSKOPS

1

DSKOPS

1

55 0200000077 +

IDSKOPER INIF,=XFRETRW,0

DSKOPS

1

* FRETURN INITIALIZATION FROM USER DISK DSKOPS
56 0200000131 + DSKOPS
* DSKOPER FINI=XFRETRW,5,UDAT,(UCAP,T.FILE,OB,RDFIL),UDAT,UDADSKOPS
,T,(UCAP,T.ALLOC,0) DSKOPS
* DSKOPS
* DSKOPS
* TERMINATOR SUBPROCESS INITIALIZATION CALL DSKOPS
57 0200000176 + DSKOPS
* IDSKOPER INIT=XTERMIN,0 DSKOPS
* DSKOPS
* DSKOPS
* HELPER SUBPROCESS INITIALIZATION CALL DSKOPS
60 0200000176 + DSKOPS
* IDSKOPER INIH=XHELPER,0 DSKOPS
* DSKOPS
* DSKOPS
* ACCOUNTANT SUBPROCESS INITIALIZATION CALL DSKOPS
61 0200000176 + DSKOPS
* IDSKOPER INIA=XACCTP,0 DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* WRITE-RETRY SUBPROCESS INITIALIZATION CALL DSKOPS
62 0200000176 + DSKOPS
* IDSKOPER INIR=XRETRY,0 DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* USER-BUG INITAILIZATION CALL DSKOPS
63 0200000176 + DSKOPS
* IDSKOPER INIB=XUSERBUG,0 DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* DSKOPS
* CREATE DISK FILE DSKOPS
* DSKOPER CFIL=XUSRDSK,2,UDAT,(BLKD,NUMLEV) DSKOPS
* DSKOPS
* PRIVLEDGED FILE CREATE DSKOPS
* DSKOPER PCFL=XUSRDSK,3,UDAT,(BLKD,NUMLEV),UDAT DSKOPS
* DSKOPS
* DSKOPS
* DESTROY DISK FILE DSKOPS
* DSKOPER DFIL=XUSRDSK,1,(UCAP,(,X1),OB,DSTRY) DSKOPS
* DSKOPS
* DSKOPS
* CREATE FILE BLOCK(S) DSKOPS
* DSKOPS

| | | |
|--|--------|---|
| DSKOPER CBLK,=XUSRDSK,3,(UCAP,T,FILE,OB,DCRBL),UDAT,UDAT | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| # DESTROY FILE BLOCK(S) | DSKOPS | 1 |
| * DSKOPER DBLK,=XUSRDSK,3,(UCAP,T,FILE,OB,DDLBL),UDAT,UDAT | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * MOVE BLOCK | DSKOPS | 1 |
| * DSKOPER MBLK,=XUSRDSK,4,(UCAP,T,FILE,OB,RDFIL+OB,DDLBL),UDAT | DSKOPS | 1 |
| ,T,(UCAP,T,FILE,OB,WFILE+OB,DCRBL),UDAT | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * OPEN READ ONLY | DSKOPS | 1 |
| * DSKOPER OPRO,=XUSRDSK,1,(UCAP,(,X1),OB,OPEN+OB,RDFIL) | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * OPEN READ WRITE | DSKOPS | 1 |
| * DSKOPER OPRW,=XUSRDSK,1,(UCAP,(,X1),OB,OPEN+OB,RDFIL+OB,WFILE) | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * CLOSE FILE (ECS FILE CAP) | DSKOPS | 1 |
| * DSKOPER CL0,=XUSRDSK,1,(UCAP,T,FILE,OB,CLOSE) | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * CLOSE FILE (DISK FILE CAP) | DSKOPS | 1 |
| * DSKOPER CLOS,=XUSRDSK,1,(UCAP,(,X1),OB,CLOSE) | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * PSEUDO CLOSE FILE (DISK FILE CAP) | DSKOPS | 1 |
| * DSKOPER PCLS,=XUSRDSK,1,(UCAP,(,X1),OB,CLOSE) | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * CLOSE ALL OPEN FILES | DSKOPS | 1 |
| * DSKOPER CAOF,=XUSRDSK,0 | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * CLEAN UP FOR PROCESS SUICIDE | DSKOPS | 1 |
| * DSKOPER CLUP,=XUSRDSK,0 | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * DSKOPS | DSKOPS | 1 |
| * ATTACH BLOCKS | DSKOPS | 1 |
| * DSKOPER | DSKOPS | 1 |

DSKOPER ATCH,=XUSRDSK,3, (UCAP,T.FILE,OB.ATCH),UDAT,UDAT

DSKOPS

* DETACH BLOCKS

DSKOPER DTCH,=XUSRDSK,3, (UCAP,T.FILE,OB.DTCH),UDAT,UDAT

DSKOPS

* FREEZE FILE

DSKOPER FREZ,=XUSRDSK,1, (UCAP,T.FILE,OB.FREZ)

DSKOPS

* MELT FILE

DSKOPER MELT,=XUSRDSK,1, (UCAP,T.FILE,OB.FREZ)

DSKOPS

* ZERO MAP

DSKOPER ZRM,=XUSRDSK,3, (UCAP,T.CLSCD,OB.CHMAP),UDAT, (UCAP,T.FILE,OB.DMAP)

DSKOPS
DSKOPS

* MAKE A MAP ENTRY (READ ONLY)

DSKOPER MMRO,=XUSRDSK,6, (UCAP,T.CLSCD,OB.CHMAP),UDAT, (UCAP,T.FILE,OB.RDFIL+OB.DMAP),UDAT,UDAT,UDAT

DSKOPS
DSKOPS

* MAKE A MAP ENTRY (READ WRITE)

DSKOPER MMRW,=XUSRDSK,6, (UCAP,T.CLSCD,OB.CHMAP),UDAT, (UCAP,T.FILE,OB.RDFIL+OB.WFILE+OB.DMAP),UDAT,UDAT,UDAT

DSKOPS
DSKOPS

* CHANGE A MAP ENTRY (READ ONLY)

DSKOPER CMRO,=XUSRDSK,7, (UCAP,T.CLSCD,OB.CHMAP),UDAT, (UCAP,T.FILE,OB.RDFIL+OB.DMAP),UDAT,UDAT,UDAT, (UCAP,T.FILE,OB.DMAP)

DSKOPS
DSKOPS

* CHANGE A MAP ENTRY (READ WRITE)

DSKOPER CMRW,=XUSRDSK,7, (UCAP,T.CLSCD,OB.CHMAP),UDAT, (UCAP,T.FILE,OB.RDFIL+OB.WFILE+OB.DMAP),UDAT,UDAT,UDAT, (UCAP,T.FILE,OB.DMAP)

DSKOPS
DSKOPS

* RETURN DISK SYSTEM CLOCKS

DSKOPER CLKS,=XUSRDSK,0

DSKOPS
DSKOPS
DSKOPS
DSKOPS

| | | | | |
|---|---|---|--------|---|
| * | * | EXCLUSIVE CLAIM W/ QUEUE WAIT | DSKOPS | 1 |
| * | * | DSKOPER ECLM,=XUSRDSK,1,(UCAP,T,FILE,OB,ECLM) | DSKOPS | 1 |
| * | * | SHARED CLAIM W/ QUEUE WAIT | DSKOPS | 1 |
| * | * | DSKOPER SCLM,=XUSRDSK,1,(UCAP,T,FILE,OB,SCLM) | DSKOPS | 1 |
| * | * | RELEASE CLAIM | DSKOPS | 1 |
| * | * | DSKOPER RLSE,=XUSRDSK,1,(UCAP,T,FILE,OB,REL) | DSKOPS | 1 |
| * | * | ACCOUNTING BLOCK SERVICES | DSKOPS | 1 |
| * | * | DSKOPER ABSV,=XUSRDSK,4,UDAT,UDAT,UDAT,UDAT | DSKOPS | 1 |
| * | * | ACCOUNTING RECORD SERVICES | DSKOPS | 1 |
| * | * | DSKOPER ARSV,=XUSRDSK,3,UDAT,UDAT,(BLKD,B) | DSKOPS | 1 |
| * | * | DECLARE ACCOUNTING FILE | DSKOPS | 1 |
| * | * | DSKOPER DACF,=XUSRDSK,1,(UCAP,(,X1),0) | DSKOPS | 1 |
| * | * | LOAD DISK BUFFER (USED BY FRETURN HANDLER DURING WRITE) | DSKOPS | 1 |
| * | * | DSKOPER LBUF,=XUSRDSK,4,UDAT,UDAT,UDAT,UDAT | DSKOPS | 1 |
| * | * | AUDIT FILE | DSKOPS | 1 |
| * | * | DSKOPER AUDT,=XUSRDSK,2,(UCAP,T,CLIST),UDAT | DSKOPS | 1 |
| * | * | PROBE FOR FILEBLOCK | DSKOPS | 1 |
| * | * | DSKOPER PROB,=XUSRDSK,2,(UCAP,T,FILE,OB,RDFIL),UDAT | DSKOPS | 1 |
| * | * | INTERCHANGE CONTENTS OF TWO DISK FILES | DSKOPS | 1 |
| * | * | DSKOPER SHAZ,=XUSRDSK,2,(UCAP,T,FILE,OB,DCRBL+OB,DDLBL),(UCADSKOPS, ,P,T,FILE,OB,DCRBL+OB,DDLBL) | DSKOPS | 1 |
| * | * | SET / RESET +CLOSE ALL OPEN FILES+ LOCK OUT (CLOSE FLAG) | DSKOPS | 1 |

* DSKOPER CFLAG=XUSRDSK,2,(UCAP,T,FILE,0),UDAT DSKOPS
* DISK RECOVERY OR LOAD COMPLETE DSKOPS
* DSKOPER DONE=XUSRDSK,0 DSKOPS
* CALL DISK-SYSTEM INTERNAL DEBUGGER DSKOPS
* DSKOPER DEBUG=XUSRDSK,0 DSKOPS
* DESTROY SUBPROCESS (POSSIBLE DISK FILES IN MAP) DSKOPS
* DSKOPER DSUB=XUSRDSK,1,(UCAP,T,CLSCD,OB,DSTRY+OB,CHMAP) DSKOPS
* DISPLAY N-TH ATTACHED BLOCK DSKOPS
* DSKOPER DSBN=XUSRDSK,2,UDAT,UDAT DSKOPS
* PROCESS DIRTY BLOCK FOR F-RETURN DSKOPS
* DSKOPER DIRT=XUSRDSK,6,UDAT,UDAT,UDAT,UDAT,UDAT DSKOPS
* DISPLAY ECS OCCUPIED BY THIS PROCESS (FIXED AND SWAPPED) DSKOPS
* DSKOPER EOCC=XUSRDSK,0 DSKOPS
* FUND PROCESS FIXED ECS FROM ALLOCATION BLOCK DSKOPS
64 GO DSKOPER FUND=XUSRDSK,1,(UCAP,T,ALLOC,777777B)
* (CRIPPLED CAPABILITIES NEED NOT APPLY) DSKOPS
* EXCLUSIVE CLAIM W/O QUEUE WAIT DSKOPS
64 DSKOPER ECLF=XUSRDSK,1,(UCAP,T,FILE,OB,ECLM) DSKOPS
* SHARED CLAIM W/O QUEUE WAIT DSKOPS
64 DSKOPER SCLF=XUSRDSK,1,(UCAP,T,FILE,OB,SCLM) DSKOPS
* DISPLAY FILE DSKOPS

64

DSKOPER DSF,=XUSRDSK,1,UDAT

DSKOPS
DSKOPS

64

DSKOPER DSFN,=XUSRDSK,1,UDAT

DSKOPS
DSKOPS

64

* PSEUDO-CLOSE (ECS FILE CAPABILITY)

DSKOPER EPCL,=XUSRDSK,1,(UCAP,T,FILE,OB,CLOSE)

DSKOPS
DSKOPS

64

* EXCLUSIVE OPEN
DSKOPER XOPN,=XUSRDSK,1,(UCAP,(,X1),OB,XOPN+OB,OPEN+OB,RDFILD,OB,WFILE)

DSKOPS
DSKOPS

64

DSKOPER XSEC,=XUSRDSK,1,UDAT

DSKOPS
DSKOPS

* LIST -X

DSKOPS

12 MAXACT EQU *-ACTION

*** F-RETURN READ WRITE ACTION ENTRY POINTS ***

AP01 (C1) = 0 (ECS FILE CAP INDEX)
 AP11 STARTING FILE ADDRESS
 AP21 STARTING CM ADDRESS
 AP31 WORD COUNT
 AP41 0 FOR READ; 1 FOR WRITE

| | | | | | |
|-----|--------------------|---------|---|---|-------------------------------|
| 64 | 5150000000 X | L.READ | SAS | UDINFO | |
| | | * | READ IN LOCAL ACCOUNTING DATA FROM USRDSK | (THIS NEED NOT BE WRITTEN BACK SINCE NET CHANGE BY FRETRW IS ALWAYS ZERO) | |
| 75 | 0200000000 X | READ | JP | UDSKSCR,X5,MYINFO,N+INFO,FRET | |
| | | * | L.REPAP1 RJ | syserr | |
| 76 | 0100000000 X | L.WRITE | RJ | SYSERR | SHOULD NEVER OCCUR |
| | | * | *** INITIAL CALL *** | | |
| 77 | 7110000000 X | L.INIT | SX1 | READRWF | START OF READ WRITE AREA |
| | 14211 | | BX2 | -X1 | |
| 100 | 7160000000 X | READ | | MYCODE,F,READRWF,READRWF,READRWL+X2,FRET | |
| 111 | 7160000000 X | DSPCLK | CLKBUF | | FIX UP CLK BUF AFTER SCR READ |
| 116 | 7160000000 X | MYESM | ALLERS | | SET LOCAL FSM |
| 123 | 13666 | BX6 | X6-X6 | | INITIALIZE CLOCKS |
| | 5160000000 X | SA6 | DSYSTIM | | |
| 124 | 5160000000 X | SA6 | DSWPPTIM | | |
| | 5160000000 X | SA6 | DUSRPTIM | | |
| 125 | 7160777776 | SX6 | -1 | | ORIGINAL ACCOUNTING |
| | 5160000000 X | SA6 | MYDAR | | |
| 126 | 0200000225 * | JP | | RETURN | |
| 127 | 0100000000 X | FRET | RJ | SYSERR | |
| 130 | 737737777770000000 | ALLERS | VFD | 36/73773777777B,24/0 | |
| | | * | *** INITIALIZATION FROM USER DISK *** | | |
| | | * | AP1: USER DISK SCRATCH FILE CAP | | |
| | | * | AP2: ADDR OF LOCAL FILE HEADERS IN SCR FILE | | |
| | | * | AP3: ↑MYIDENT↑ | | |
| 131 | 5150000000 X | L.FINI | SAS | API | IS THIS THE INITIAL CALL? |

read local file headers
 read local file table
 read local file address, XI, LFT, LLFH#2
 L.READ1

done

| | | | | |
|-----|-----------------------|---------|------------------|--|
| | 0315000165 + | NZ | X5,L.FINI2 | JUMP IF NOT |
| 132 | 5150000000 X 10655 | SA5 | AP4 | MYIDENT |
| 133 | 5160000000 X | BX6 | X5 | |
| | | SA6 | MYIDENT | |
| | 7160000000 X | CAPIN | SLEEP,X5,MYEVCH | |
| 142 | 7160000000 X | CAPIN | RESP,X5,MYRESP | |
| | | | | |
| 151 | 5150000000 X 10655 | SA5 | AP3 | ADDR OF LOCAL HEADERS IN |
| 152 | 5160000000 X | BX6 | X5 | USER DISK SCRATCH FILE |
| | | SA6 | TABADDR | |
| | 5150000000 X | | | |
| 153 | 10655 5160000000 X | SAS | AP5 | ADDR OF LOCAL ACCOUNTING DATA |
| | | BX6 | X5 | IN USRDSK SCRATCH FILE |
| | | SA6 | UDINFO | |
| | | | | |
| 154 | 5150000000 X 43474 | SA5 | AP2 | |
| 155 | 7160000000 X | MX4 | 60 | MOVE USER DISK SCR FILE CAP |
| | | COPYCAP | X5,UDSKSCR,(,X4) | |
| 164 | 0200000225 + | | JP | RETURN |
| | | | SX5 | |
| | | | NZ | X5,L.FINI2 |
| 165 | 5150000000 X 43474 | L.FINI2 | SA5 | AP6 |
| 166 | 7160000000 X | MX4 | 60 | |
| | | COPYCAP | X5,USERAB,(,X4) | |
| 175 | 0200000225 + | | JP | RETURN |
| | | | | |
| | | | | 7 pending, call for an fixed E05 |
| | | | | |
| | | | | make map entry for local file table |
| 176 | | L.INID | BSS | |
| 176 | | L.INIT | BSS | |
| 176 | | L.INIC | BSS | |
| 176 | | L.INIA | BSS | |
| 176 | | L.INIR | BSS | |
| 176 | | L.INIB | BSS | |
| 176 | | L.INIH | BSS | |
| 176 | 0100000000 X | RJ | SYSERR | |
| | | | | |
| | | | | SA5 tabaddr off header add to user disk scratch file |
| | | | | SHL userdisk |
| | | | | inmap mysubp, offmap, userdisk, X5, LFT, 2 AL.IIF |
| | | | | |
| | | | | * CLEANUP CALL FROM USRDSK |
| | | | | L.FINI2 ZRMAP MYSUBP,=XLFHMAP,UDSKSCR |
| | | | | JP RETURN |

done?
A

ERROR EXIT POINTS

↑ERRNUM↑ SHOULD CONTAIN ERROR NUMBER

| | | | | | |
|-----|--------------|--------------|----------|---------|------------------------|
| 177 | 7160000002 | | ERRPARM | SX6 | E-PARMS |
| | | 5160000000 X | | SA6 | ERRCLAS |
| 200 | 0200000207 * | | | JP | ERRExit |
| | | * | | | |
| 201 | 7160000003 | | ERRFILE | SX6 | E-FILES |
| | | 5160000000 X | | SA6 | ERRCLAS |
| 202 | 0200000207 * | | | JP | ERRExit |
| | | * | | | |
| 203 | 7160000006 | | ERRALOC | SX6 | E-ABLOCK |
| | | 5160000000 X | | SA6 | ERRCLAS |
| 204 | 0200000207 * | | | JP | ERRExit |
| | | * | | | |
| 205 | 7160000013 | | ERRMAP | SX6 | E-MAPS |
| | | 5160000000 X | | SA6 | ERRCLAS |
| 206 | 0200000207 * | | | JP | ERRExit |
| | | * | | | |
| 207 | 5140000000 X | | ERRExit | SA4 | ERRCLAS |
| | | 5150000000 X | | SA5 | ERRNUM |
| 210 | 10644 | | | BX6 | X4 |
| | | 10755 | | BX7 | X5 |
| | | 5160000001 X | | SA6 | RETERR+1 |
| 211 | 5170000002 X | | | SA7 | RETERR+2 |
| | | 6170000213 * | | SB7 | ERRExit1 |
| 212 | 0200000242 * | | | JP | CLOCKS |
| 213 | 0130000214 * | | ERRExit1 | RESTORE | USRPACK |
| 216 | 0130000000 X | | | XJ | RETERR |
| | | * | | | |
| 217 | 6170000220 * | 0200000242 * | FRETURN | SB7 | F-RETURN EXIT POINT |
| | | | | JP | FRETURN1 |
| 220 | 0130000221 * | | FRETURN1 | RESTORE | CLOCKS |
| 223 | 0130000224 * | | | FRETURN | USRPACK |
| | | * | | | |
| 225 | 6170000226 * | 0200000242 * | RETURN | SB7 | RETURN1 |
| | | | | JP | CLOCKS |
| 226 | 0130000227 * | | RETURN1 | RESTORE | USRPACK |
| 231 | 0130000232 * | | | RETURN | RESTORE USER REGISTERS |
| | | * | | | |

| | | | |
|-----|--------------|---------|---------|
| 233 | 10611 | RETPAR | BX6 |
| | 10722 | | BX7 |
| | 5160000001 X | | SA6 |
| 234 | 5170000002 X | | SA7 |
| | 6170000236 + | | SB7 |
| 235 | 0200000242 + | | JP |
| 236 | 0130000237 + | RETPARI | RESTORE |
| 241 | 0130000000 X | | XJ |

RETURN WITH PARAMETERS

X1 = DATA RETURN CONTROL
X2 = CAPABILITY RETURN CONTROL
STORE RETURN CONTROLS

X1
X2
RETPARM+1
RETPARM+2
RETPARI
CLOCKS
USRPACK
RETPARM

UPDATE CLOCKS

RESTORE USER REGISTERS

| | | |
|---|---------|-----|
| 2 | SYSTIME | EQU |
| 3 | SWPTIME | EQU |
| 1 | USRTIME | EQU |

| | | |
|---|--|--|
| 2 | | |
| 3 | | |
| 1 | | |

UPDATE DISK SYS ELAPSED TIME CLOCKS

B7 = RETURN LINK
CLKBUF+SYSTIME
CLKBUF+SWPTIME
CLKBUF+USRTIME
CLKBUF

PICK UP OLD TIMES

| | | | |
|-----|--------------|--------|--------|
| 242 | 5110000002 X | CLOCKS | SA1 |
| | 5120000003 X | | SA2 |
| 243 | 5130000001 X | | SA3 |
| | 7160000000 X | | DSPCLK |
| 250 | 5140000002 X | | SA4 |
| | 5150000000 X | | SA5 |

CLKBUF+SYSTIME
CLKBUF+SWPTIME
CLKBUF+USRTIME
CLKBUF

UPDATE TOTALS

| | | | |
|-----|--------------|--|---------|
| 251 | 37441 | | DSYSTIM |
| | 36645 | | X4-X1 |
| | 5065000000 | | X4+X5 |
| 252 | 5140000003 X | | SA6 |
| | 5150000000 X | | A5+0 |

CLKBUF+SYSTIME
CLKBUF+SWPTIME
CLKBUF+USRTIME
CLKBUF

| | | | |
|-----|--------------|--|---------|
| 253 | 37442 | | DSWPTIM |
| | 36645 | | X4-X2 |
| | 5065000000 | | X4+X5 |
| 254 | 5140000001 X | | SA4 |
| | 5150000000 X | | A5+0 |

CLKBUF+SYSTIME
CLKBUF+SWPTIME
CLKBUF+USRTIME
CLKBUF

| | | | |
|-----|------------|--|--------|
| 255 | 37443 | | DUSRIM |
| | 36645 | | X4-X3 |
| | 5065000000 | | X4+X5 |

DUSRIM

| | | | |
|-----|------------|--|------|
| 256 | 0270000000 | | SA5 |
| | | | A5+0 |

A5+0

| | | | |
|-----|---------|-------|----|
| 256 | SYMBOLS | XTEXT | JP |
| | | | |

JP

RETURN

| | | | |
|-----|--|--|-----|
| 257 | | | END |
|-----|--|--|-----|

END

43300 STORAGE USED
6600 ASSEMBLY

2898 STATEMENTS
20.713 SECONDS

611 SYMBOLS
267 REFERENCES

WSPACE3 REE
Open

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.29.

PAGE 16

| | | | | | |
|---------|-----|-----------|-------|---------|---------|
| ACTION | 52 | PROGRAM# | 3/29 | 5/24 L | 11/33 |
| ALLERS | 130 | PROGRAM# | 12/33 | 12/45 L | |
| APTIPL | 0 | EXTERNAL# | | | |
| AP0 | 0 | EXTERNAL# | 3/25 | | |
| AP1 | 0 | EXTERNAL# | 12/53 | | |
| AP2 | 0 | EXTERNAL# | 13/17 | | |
| AP3 | 0 | EXTERNAL# | 13/09 | | |
| AP4 | 0 | EXTERNAL# | 13/02 | | |
| AP5 | 0 | EXTERNAL# | 13/13 | | |
| AP6 | 0 | EXTERNAL# | 13/24 | | |
| AP7 | 0 | EXTERNAL# | | | |
| AP8 | 0 | EXTERNAL# | | | |
| ATTACH | 0 | EXTERNAL# | | | |
| ATTACHR | 0 | EXTERNAL# | | | |
| AUDIT | 0 | EXTERNAL# | | | |
| BFILE | 0 | EXTERNAL# | | | |
| BLK-DTY | 0 | EXTERNAL# | | | |
| BLK-FLG | 0 | EXTERNAL# | | | |
| BLK-SIZ | 0 | EXTERNAL# | | | |
| BUSYDSK | 0 | EXTERNAL# | | | |
| CALBEAD | 0 | EXTERNAL# | | | |
| CHMAP | 0 | EXTERNAL# | | | |
| CHMAPBI | 0 | EXTERNAL# | | | |
| CHMAPR | 0 | EXTERNAL# | | | |
| CLKBUF | 0 | EXTERNAL# | 3/25 | 15/25 | 15/27 |
| | | | 12/31 | 15/26 | 15/29 |
| CLOCKS | 242 | PROGRAM# | 14/32 | 14/41 | 14/49 |
| CLODAR | 0 | EXTERNAL# | | | 15/34 |
| CLOSE | 0 | EXTERNAL# | | | 15/09 |
| CLOSER | 0 | EXTERNAL# | | | 15/25 L |
| CLOSROF | 0 | EXTERNAL# | | | |
| CLOSRWF | 0 | EXTERNAL# | | | |
| CLOSRWL | 0 | EXTERNAL# | | | |
| COMMROF | 0 | EXTERNAL# | | | |
| COMMROL | 0 | EXTERNAL# | | | |
| COMMRF | 0 | EXTERNAL# | | | |
| COMMRL | 0 | EXTERNAL# | | | |
| CONVERT | 0 | EXTERNAL# | | | |
| CREATB1 | 0 | EXTERNAL# | | | |
| CREATE | 0 | EXTERNAL# | | | |
| CREATER | 0 | EXTERNAL# | | | |
| CREBLK | 0 | EXTERNAL# | | | |
| CREBLKR | 0 | EXTERNAL# | | | |
| CRELFH | 0 | EXTERNAL# | | | |
| CREPTRR | 0 | EXTERNAL# | | | |
| CTEMP | 0 | EXTERNAL# | | | |
| DARADDR | 0 | EXTERNAL# | | | |
| DARHASH | 0 | EXTERNAL# | | | |
| DARSPA | 0 | EXTERNAL# | | | |
| DATIPL | 0 | EXTERNAL# | | | |
| DATMAP | 0 | EXTERNAL# | | | |
| DBR | 0 | EXTERNAL# | | | |
| DBUG1 | 0 | EXTERNAL# | | | |

| | | | | | | | | |
|----------|-----|-----------|---------|---------|---------|---------|---------|--|
| DBUG2 | 0 | EXTERNAL* | | | | | | |
| DBW | 0 | EXTERNAL* | | | | | | |
| DDRSP | 0 | EXTERNAL* | | | | | | |
| DDSIPL | 0 | EXTERNAL* | | | | | | |
| DECODE | 0 | EXTERNAL* | | | | | | |
| DELBLK | 0 | EXTERNAL* | | | | | | |
| DELBLKR | 0 | EXTERNAL* | | | | | | |
| DELHASH | 0 | EXTERNAL* | | | | | | |
| DENTRY | 0 | EXTERNAL* | | | | | | |
| DETACH | 0 | EXTERNAL* | | | | | | |
| DETACHR | 0 | EXTERNAL* | | | | | | |
| DISKENT | 0 | EXTERNAL* | | | | | | |
| DISKERR | 0 | EXTERNAL* | | | | | | |
| DISKINT | 0 | EXTERNAL* | | | | | | |
| DORESPR | 0 | EXTERNAL* | | | | | | |
| DSKLCK | 0 | EXTERNAL* | | | | | | |
| DSPTR | 0 | EXTERNAL* | | | | | | |
| DSWP TIM | 0 | EXTERNAL* | 12/36 S | 15/35 | | | | |
| DSYSTIM | 0 | EXTERNAL* | 12/35 S | 15/30 | | | | |
| DUSR TIM | 0 | EXTERNAL* | 12/37 S | 15/40 | | | | |
| D.ENTRY | 0 | EXTERNAL* | 4/67 | | | | | |
| D.FNAME | 0 | EXTERNAL* | | | | | | |
| ECLOSE | 0 | EXTERNAL* | | | | | | |
| EC:CIN | 0 | EXTERNAL* | 13/67 | 13/08 | | | | |
| EC:CLK | 0 | EXTERNAL* | 3/25 | 12/31 | 15/29 | | | |
| EC:DSSE | 0 | EXTERNAL* | 4/14 | | | | | |
| EC:ESML | 0 | EXTERNAL* | 4/10 | 12/33 | | | | |
| EC:FRET | 0 | EXTERNAL* | 14/44 | | | | | |
| EC:IMCAP | 0 | EXTERNAL* | 13/20 | 13/27 | | | | |
| EC:READ | 0 | EXTERNAL* | 12/18 | 12/29 | | | | |
| EC:RSTR | 0 | EXTERNAL* | 3/50 | 14/34 | 14/43 | 14/51 | 15/11 | |
| EC:RTRN | 0 | EXTERNAL* | 4/18 | 14/52 | | | | |
| EC:SAVE | 0 | EXTERNAL* | 3/24 | 3/38 | | | | |
| ENTER | 0 | EXTERNAL* | | | | | | |
| ERRADDR | 0 | EXTERNAL* | 4/02 S | | | | | |
| ERRALOC | 203 | PROGRAM* | 14/15 L | | | | | |
| ERRCLAS | 0 | EXTERNAL* | 14/08 S | 14/12 S | 14/16 S | 14/20 S | 14/25 | |
| ERREXIT | 207 | PROGRAM* | 14/09 | 14/13 | 14/17 | 14/21 | 14/25 L | |
| ERREXIT | 213 | PROGRAM* | 14/31 | 14/33 L | | | | |
| ERRFILE | 201 | PROGRAM* | 14/11 L | | | | | |
| ERRMAP | 205 | PROGRAM* | 14/19 L | | | | | |
| ERRNUM | 0 | EXTERNAL* | 14/26 | | | | | |
| ERRPACK | 0 | EXTERNAL* | 3/38 | 3/50 | | | | |
| ERRPARM | 177 | PROGRAM* | 14/07 L | | | | | |
| EXCLAIM | 0 | EXTERNAL* | | | | | | |
| EXIT | 51 | PROGRAM* | 3/50 | 4/18 L | | | | |
| E.ABLOCK | 6 | | 14/15 | | | | | |
| E.FILES | 3 | | 14/11 | | | | | |
| E.MAPS | 13 | | 14/19 | | | | | |
| E.PARMS | 2 | | 14/07 | | | | | |
| FB.FUND | 0 | EXTERNAL* | | | | | | |
| FB.LEN | 0 | EXTERNAL* | | | | | | |
| FB.NAME | 0 | EXTERNAL* | | | | | | |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.29.

PAGE 18

| | | |
|----------|-----|-----------|
| FB.SHAP | 0 | EXTERNAL* |
| FB.WD3 | 0 | EXTERNAL* |
| FDSKDAT | 0 | EXTERNAL* |
| FDSKHDR | 0 | EXTERNAL* |
| FDSKPTR | 0 | EXTERNAL* |
| FHB | 0 | EXTERNAL* |
| FHR | 0 | EXTERNAL* |
| FHRADDR | 0 | EXTERNAL* |
| FHRHASH | 0 | EXTERNAL* |
| FILCL | 0 | EXTERNAL* |
| FILEADR | 0 | EXTERNAL* |
| FILECAP | 0 | EXTERNAL* |
| FLDLEN | 0 | EXTERNAL* |
| FREEDSK | 0 | EXTERNAL* |
| FRET | 127 | PROGRAM* |
| FRETURN | 217 | PROGRAM* |
| FRETURN1 | 220 | PROGRAM* |
| FRW | 0 | EXTERNAL* |
| FRWENT | 2 | PROGRAM* |
| FRWENT1 | 15 | PROGRAM* |
| FRWERR | 1 | PROGRAM* |
| FRWERR1 | 16 | PROGRAM* |
| FRWERR2 | 22 | PROGRAM* |
| FRWERR3 | 39 | PROGRAM* |
| FRWERR4 | 37 | PROGRAM* |
| FRWERR5 | 40 | PROGRAM* |
| FRWINT | 0 | PROGRAM* |
| FR.CAPX | 0 | EXTERNAL* |
| FR.CLAM | 0 | EXTERNAL* |
| FR.DAR | 0 | EXTERNAL* |
| FR.DBSZ | 0 | EXTERNAL* |
| FR.FLAG | 0 | EXTERNAL* |
| FR.FROZ | 0 | EXTERNAL* |
| FR.FUND | 0 | EXTERNAL* |
| FR.LEN | 0 | EXTERNAL* |
| FR.LOCK | 0 | EXTERNAL* |
| FR.MEMB | 0 | EXTERNAL* |
| FR.NAME | 0 | EXTERNAL* |
| FR.ONEL | 0 | EXTERNAL* |
| FR.OPEN | 0 | EXTERNAL* |
| FR.ROOT | 0 | EXTERNAL* |
| FR.SHAP | 0 | EXTERNAL* |
| FR.SIZE | 0 | EXTERNAL* |
| FR.SUSP | 0 | EXTERNAL* |
| FR.WD1 | 0 | EXTERNAL* |
| FR.WD2 | 0 | EXTERNAL* |
| FR.WD3 | 0 | EXTERNAL* |
| FR.WRIT | 0 | EXTERNAL* |
| GDSKDAT | 0 | EXTERNAL* |
| GDSKHDR | 0 | EXTERNAL* |
| GDSKPTR | 0 | EXTERNAL* |
| GETDSK | 0 | EXTERNAL* |
| GETRESP | 0 | EXTERNAL* |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.29. PAGE 19

| | | | | | | | | | | |
|----------|-----|-----------|---------|---------|---------|---------|---------|---------|---------|---------|
| GFILE | 0 | EXTERNAL* | | | | | | | | |
| GF.APTF | 0 | EXTERNAL* | | | | | | | | |
| GF.APTL | 0 | EXTERNAL* | | | | | | | | |
| GF.DATF | 0 | EXTERNAL* | | | | | | | | |
| GF.DATL | 0 | EXTERNAL* | | | | | | | | |
| GF.DDSF | 0 | EXTERNAL* | | | | | | | | |
| GF.DDSL | 0 | EXTERNAL* | | | | | | | | |
| GF.HSHF | 0 | EXTERNAL* | | | | | | | | |
| GF.HSHL | 0 | EXTERNAL* | | | | | | | | |
| GF.IOTF | 0 | EXTERNAL* | | | | | | | | |
| GF.IOTL | 0 | EXTERNAL* | | | | | | | | |
| GF.LEN | 0 | EXTERNAL* | | | | | | | | |
| GF.SUSF | 0 | EXTERNAL* | | | | | | | | |
| GF.SUSL | 0 | EXTERNAL* | | | | | | | | |
| GF.TRVF | 0 | EXTERNAL* | | | | | | | | |
| GO | 64 | PROGRAM* | 10/39 L | | | | | | | |
| HASH | 0 | EXTERNAL* | | | | | | | | |
| HASHIPL | 0 | EXTERNAL* | | | | | | | | |
| HBR | 0 | EXTERNAL* | | | | | | | | |
| HBW | 0 | EXTERNAL* | | | | | | | | |
| HENTRY | 0 | EXTERNAL* | | | | | | | | |
| HFILE | 0 | EXTERNAL* | | | | | | | | |
| HOLDBLK | 0 | EXTERNAL* | | | | | | | | |
| INTDAT | 0 | EXTERNAL* | | | | | | | | |
| IOTBUF | 0 | EXTERNAL* | | | | | | | | |
| IOTIPL | 0 | EXTERNAL* | | | | | | | | |
| IPLIST | 0 | EXTERNAL* | 3/11 | | | | | | | |
| IP:ILIST | 0 | EXTERNAL* | 3/11 D | 12/18 S | 12/29 S | 12/31 | 13/07 S | 13/08 S | 13/20 | 15/29 S |
| | | | 3/25 S | 12/18 S | 12/29 S | 12/33 S | 13/07 S | 13/08 | 13/27 S | 15/29 S |
| | | | 3/25 S | 12/18 S | 12/29 S | 12/33 S | 13/07 | 13/20 S | 13/27 S | 15/29 |
| | | | 3/25 | 12/18 | 12/29 | 12/33 | 13/08 S | 13/20 S | 13/27 | S |
| | | | 12/18 S | 12/29 S | 12/31 S | 13/07 S | 13/08 S | 13/20 S | 13/27 S | |
| | | | 12/18 S | 12/29 S | 12/31 S | 13/07 S | 13/08 S | 13/20 S | 13/27 | |
| LFHADDR | 0 | EXTERNAL* | | | | | | | | |
| LFT | 0 | EXTERNAL* | | | | | | | | |
| LFTFREE | 0 | EXTERNAL* | | | | | | | | |
| LOADBUF | 0 | EXTERNAL* | | | | | | | | |
| LOCK | 0 | EXTERNAL* | | | | | | | | |
| LOCTAB | 0 | EXTERNAL* | | | | | | | | |
| LOCTABF | 0 | EXTERNAL* | | | | | | | | |
| LOCTABL | 0 | EXTERNAL* | | | | | | | | |
| L.FINI | 131 | PROGRAM* | 6/03 | 12/53 L | | | | | | |
| L.FINI2 | 165 | PROGRAM* | 13/01 | 13/24 L | | | | | | |
| L.INIA | 176 | PROGRAM* | 6/19 | 13/37 L | | | | | | |
| L.INIB | 176 | PROGRAM* | 6/29 | 13/39 L | | | | | | |
| L.INIC | 176 | PROGRAM* | 13/36 | L | | | | | | |
| L.INID | 176 | PROGRAM* | 5/46 | 13/34 L | | | | | | |
| L.INIF | 77 | PROGRAM* | 5/51 | 12/26 L | | | | | | |
| L.INIH | 176 | PROGRAM* | 6/14 | 13/40 L | | | | | | |
| L.INIR | 176 | PROGRAM* | 6/24 | 13/38 L | | | | | | |
| L.INIT | 176 | PROGRAM* | 6/09 | 13/35 L | | | | | | |
| L.MNCL | 0 | EXTERNAL* | | | | | | | | |
| L.READ | 64 | PROGRAM* | 5/35 | 12/11 L | | | | | | |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.29.

PAGE 20

| | | | | |
|---------|----|-----------|---------|---------|
| L.WRIT | 76 | PROGRAM# | 5/40 | 12/21 L |
| MAINCL | 0 | EXTERNAL# | | |
| MAKEMAP | 0 | EXTERNAL# | | |
| MAPBUF | 0 | EXTERNAL# | | |
| MAXACT | 12 | | 3/26 | 11/33 D |
| MKPTR | 0 | EXTERNAL# | | |
| MOVBLKR | 0 | EXTERNAL# | | |
| MYCODE | 0 | EXTERNAL# | 12/29 | |
| MYDAR | 0 | EXTERNAL# | 12/40 S | |
| MYEVCH | 0 | EXTERNAL# | 13/07 | |
| MYIDENT | 0 | EXTERNAL# | 13/04 S | |
| MYINFO | 0 | EXTERNAL# | 12/18 | |
| MYRESP | 0 | EXTERNAL# | 13/08 | |
| MYSCRF | 0 | EXTERNAL# | | |
| MYSUBP | 0 | EXTERNAL# | 3/43 | |
| MYSWOCC | 0 | EXTERNAL# | | |
| MYUNIT | 0 | EXTERNAL# | | |
| M.ABFCH | 0 | EXTERNAL# | | |
| M.ABFIL | 0 | EXTERNAL# | | |
| M.ACREQ | 0 | EXTERNAL# | | |
| M.ACRES | 0 | EXTERNAL# | | |
| M.ACTCC | 0 | EXTERNAL# | | |
| M.ADDS | 0 | EXTERNAL# | | |
| M.ADISK | 0 | EXTERNAL# | | |
| M.ASUSP | 0 | EXTERNAL# | | |
| M.AUTH | 0 | EXTERNAL# | | |
| M.BFILE | 0 | EXTERNAL# | | |
| M.CLOCC | 0 | EXTERNAL# | | |
| M CLOSE | 0 | EXTERNAL# | | |
| M.CLTIM | 0 | EXTERNAL# | | |
| M.DARL | 0 | EXTERNAL# | | |
| M.DDREQ | 0 | EXTERNAL# | | |
| M.DDRSP | 0 | EXTERNAL# | | |
| M.DDSCT | 0 | EXTERNAL# | | |
| M.DFILT | 0 | EXTERNAL# | | |
| M.DOBJS | 0 | EXTERNAL# | | |
| M.EMPTY | 0 | EXTERNAL# | | |
| M.FCLEV | 0 | EXTERNAL# | | |
| M.FDISK | 0 | EXTERNAL# | | |
| M.FHRL | 0 | EXTERNAL# | | |
| M.FILCL | 0 | EXTERNAL# | | |
| M.FRWCC | 0 | EXTERNAL# | | |
| M.GFILE | 0 | EXTERNAL# | | |
| M.HASHL | 0 | EXTERNAL# | | |
| M.HELP | 0 | EXTERNAL# | | |
| M.HFILE | 0 | EXTERNAL# | | |
| M.IOCTR | 0 | EXTERNAL# | | |
| M.LOCKS | 0 | EXTERNAL# | | |
| M.MKCAP | 0 | EXTERNAL# | | |
| M.OPCL | 0 | EXTERNAL# | | |
| M.RBUFS | 0 | EXTERNAL# | | |
| M.RETRY | 0 | EXTERNAL# | | |
| M.SDISK | 0 | EXTERNAL# | | |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.29.

PAGE 21

| | | | | | | | | | |
|----------|---|-----------|--------|-------|-------|-------|-------|-------|-------|
| M.SLOTS | 0 | EXTERNAL* | | | | | | | |
| M.SWAB | 0 | EXTERNAL* | | | | | | | |
| M.TRMCC | 0 | EXTERNAL* | | | | | | | |
| M.TRYCC | 0 | EXTERNAL* | | | | | | | |
| M.TVRES | 0 | EXTERNAL* | | | | | | | |
| M.TWAIT | 0 | EXTERNAL* | | | | | | | |
| M.UNAME | 0 | EXTERNAL* | | | | | | | |
| M.USCTR | 0 | EXTERNAL* | | | | | | | |
| M.USRCC | 0 | EXTERNAL* | | | | | | | |
| M.WBUFS | 0 | EXTERNAL* | | | | | | | |
| M.10SEC | 0 | EXTERNAL* | | | | | | | |
| NLOCKS | 0 | EXTERNAL* | | | | | | | |
| NOJJS | 0 | EXTERNAL* | | | | | | | |
| NOQLOCK | 0 | EXTERNAL* | | | | | | | |
| NUMRESP | 0 | EXTERNAL* | | | | | | | |
| N.INFO | 0 | EXTERNAL* | 12/18 | | | | | | |
| OPEN | 0 | EXTERNAL* | | | | | | | |
| OPENDAR | 0 | EXTERNAL* | | | | | | | |
| OPENR | 0 | EXTERNAL* | | | | | | | |
| OPERCL | 0 | EXTERNAL* | 3/11 | 4/11 | 4/15 | 4/19 | | | |
| OP:;;:CL | 0 | EXTERNAL* | 3/11 D | 3/38 | 12/28 | 13/06 | 13/26 | 14/44 | 15/11 |
| | | | 3/24 | 3/50 | 12/30 | 13/07 | 14/34 | 14/51 | 15/28 |
| | | | 3/24 | 12/17 | 12/32 | 13/19 | 14/43 | 14/52 | |
| ORGADDR | 0 | EXTERNAL* | | | | | | | |
| ORGCLST | 0 | EXTERNAL* | | | | | | | |
| ORGMAP | 0 | EXTERNAL* | | | | | | | |
| PAGESW | 0 | EXTERNAL* | | | | | | | |
| PASSERR | 0 | EXTERNAL* | | | | | | | |
| PBR | 0 | EXTERNAL* | | | | | | | |
| PBW | 0 | EXTERNAL* | | | | | | | |
| PG.DDS | 0 | EXTERNAL* | | | | | | | |
| PG.DTY | 0 | EXTERNAL* | | | | | | | |
| PG.PG | 0 | EXTERNAL* | | | | | | | |
| PROBE | 0 | EXTERNAL* | | | | | | | |
| PROCADR | 0 | EXTERNAL* | 3/38 | | | | | | |
| PRVOPEN | 0 | EXTERNAL* | | | | | | | |
| PTR.CM | 0 | EXTERNAL* | | | | | | | |
| PTR.DDS | 0 | EXTERNAL* | | | | | | | |
| PTR.DTY | 0 | EXTERNAL* | | | | | | | |
| PTR.NUM | 0 | EXTERNAL* | | | | | | | |
| PTR.PTR | 0 | EXTERNAL* | | | | | | | |
| RBUFS | 0 | EXTERNAL* | | | | | | | |
| READCAP | 0 | EXTERNAL* | | | | | | | |
| READONF | 0 | EXTERNAL* | | | | | | | |
| READONL | 0 | EXTERNAL* | | | | | | | |
| READRWF | 0 | EXTERNAL* | 12/26 | 12/29 | 12/29 | | | | |
| READRWL | 0 | EXTERNAL* | I2/29 | | | | | | |
| REDSHP | 0 | EXTERNAL* | | | | | | | |
| REGS | 0 | EXTERNAL* | | | | | | | |
| RELCIAM | 0 | EXTERNAL* | | | | | | | |
| RELEASE | 0 | EXTERNAL* | | | | | | | |
| RESP | 0 | EXTERNAL* | 13/08 | | | | | | |
| RESTREG | 0 | EXTERNAL* | | | | | | | |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.29.

PAGE 22

| | | | | | | | | |
|---------|-----|-----------|---------|---------|-------|-------|-------|-------|
| RETCLK | 0 | EXTERNAL* | | | | | | |
| REVERR | 0 | EXTERNAL* | | | | | | |
| RETPAR | 233 | PROGRAM* | 14/29 S | 14/30 S | 14/34 | | | |
| RETPARM | 0 | EXTERNAL* | 15/04 L | | | | | |
| RETPARI | 236 | PROGRAM* | 15/06 S | 15/07 S | 15/11 | | | |
| RETRY | 0 | EXTERNAL* | 15/08 | 15/10 L | | | | |
| RETURN | 225 | PROGRAM* | 12/42 | 13/21 | 13/28 | 14/48 | L | |
| RETURN1 | 226 | PROGRAM* | 14/48 | 14/50 L | | | | |
| SAVEREG | 0 | EXTERNAL* | | | | | | |
| SETESM | 43 | PROGRAM* | 3/48 | 4/10 L | | | | |
| SETESMI | 45 | PROGRAM* | 4/12 | 4/13 L | | | | |
| SETPCNT | 0 | EXTERNAL* | 3/42 S | 3/44 S | 3/45 | | | |
| SETUP | 0 | EXTERNAL* | | | | | | |
| SETUPR | 0 | EXTERNAL* | | | | | | |
| SHCLAIM | 0 | EXTERNAL* | | | | | | |
| SIZE | 0 | EXTERNAL* | | | | | | |
| SIZES | 0 | EXTERNAL* | | | | | | |
| SLEEP | 0 | EXTERNAL* | 13/07 | | | | | |
| SLOTS | 0 | EXTERNAL* | | | | | | |
| STKBUF | 0 | EXTERNAL* | 3/53 | 4/16 | | | | |
| SUSPIPL | 0 | EXTERNAL* | | | | | | |
| SWPTIME | 3 | | 15/20 D | 15/26 | 15/34 | | | |
| SW.DDS | 0 | EXTERNAL* | | | | | | |
| SW.SW | 0 | EXTERNAL* | | | | | | |
| SYSERR | 0 | EXTERNAL* | 3/19 | 3/31 | 4/06 | 4/08 | 12/21 | 12/44 |
| SYSTIME | 2 | | 15/19 D | 15/25 | 15/29 | | | 13/41 |
| TABADDR | 0 | EXTERNAL* | 13/11 S | | | | | |
| TEMPA | 0 | EXTERNAL* | | | | | | |
| TEMPB | 0 | EXTERNAL* | | | | | | |
| TEMPC | 0 | EXTERNAL* | | | | | | |
| TEMPD | 0 | EXTERNAL* | | | | | | |
| TEMPE | 0 | EXTERNAL* | | | | | | |
| TEMPF | 0 | EXTERNAL* | | | | | | |
| TEMPG | 0 | EXTERNAL* | | | | | | |
| TEMPH | 0 | EXTERNAL* | | | | | | |
| TEMPV | 0 | EXTERNAL* | | | | | | |
| TEMPW | 0 | EXTERNAL* | | | | | | |
| TEMPX | 0 | EXTERNAL* | | | | | | |
| TEMPY | 0 | EXTERNAL* | | | | | | |
| TEMPZ | 0 | EXTERNAL* | | | | | | |
| TEMPO | 0 | EXTERNAL* | | | | | | |
| TEMP1 | 0 | EXTERNAL* | | | | | | |
| TEMP10 | 0 | EXTERNAL* | | | | | | |
| TEMP11 | 0 | EXTERNAL* | | | | | | |
| TEMP2 | 0 | EXTERNAL* | | | | | | |
| TEMP3 | 0 | EXTERNAL* | | | | | | |
| TEMP4 | 0 | EXTERNAL* | | | | | | |
| TEMP5 | 0 | EXTERNAL* | | | | | | |
| TEMP6 | 0 | EXTERNAL* | | | | | | |
| TEMP7 | 0 | EXTERNAL* | | | | | | |
| TEMP8 | 0 | EXTERNAL* | | | | | | |
| TEMP9 | 0 | EXTERNAL* | | | | | | |
| TERMEOF | 0 | EXTERNAL* | | | | | | |

F-RETURN READ / WRITE ENTRY EXIT ROUTINES
SYMBOLIC REFERENCE TABLE.

COMPASS - VER 2. 04/25/71 08.59.30.

PAGE 23

| | | | | | | | |
|---------|----|-----------|---------|---------|-------|-------|-------|
| TERMRWF | 0 | EXTERNAL* | | | | | |
| TERMRWL | 0 | EXTERNAL* | | | | | |
| TR.DRIV | 0 | EXTERNAL* | | | | | |
| TR.LEVL | 0 | EXTERNAL* | | | | | |
| UDINFO | 0 | EXTERNAL* | 12/11 | 13/15 S | | | |
| UDSKSCR | 0 | EXTERNAL* | 12/18 | 13/20 | | | |
| UNLOCK | 0 | EXTERNAL* | | | | | |
| UNLOCKW | 0 | EXTERNAL* | | | | | |
| USERAB | 0 | EXTERNAL* | 13/27 | | | | |
| USERRWF | 0 | EXTERNAL* | | | | | |
| USERRWL | 0 | EXTERNAL* | | | | | |
| USRPACK | 0 | EXTERNAL* | 3/24 | 14/34 | 14/43 | 14/51 | 15/11 |
| USRTIME | 1 | | 15/21 D | 15/27 | 15/39 | | |
| VIEW | 46 | PROGRAM* | 3/52 | 4/14 L | | | |
| WRITCAP | 0 | EXTERNAL* | | | | | |
| ZEROMAP | 0 | EXTERNAL* | | | | | |
| ZROMAPR | 0 | EXTERNAL* | | | | | |

08.58.36. 04/25/71 TSS SCOPE 3.0
08.58.39.CPU = 000 SEC : CM = 014000
08.58.40.FILE,XTEXT
08.58.40.RFL,50000
08.58.41.CPU = 000 SEC : CM = 050000
08.58.41.TEXT,OUTPUT
08.58.41.GET,SYSSUBP,MACROS,,RO
08.58.41.GET,MACROS,DISKSYS,,RO
08.58.41.GET,SYMBOLS,DISKSYS,,RO
08.58.41.GET,PARAMS,DISKSYS,,RO
08.58.41.GET,DSKOPS,OPERS,,RO
08.58.41.GET,OBBITS,DISKSYS,,RO
08.58.42.GET,TYPES,DISKSYS,,RO
08.58.42.GET,ERRORS,DISKSYS,,RO
08.58.42.GET,DSKOPR,DISKSYS,,RO
08.58.42.GET,SYSCALL,MACROS,,RO
08.58.51.GET,FRWENT,DISKSYS
08.59.NOMPASS,I=FRWENT,S=0
08.59.00.ASSEMBLING FRWENT
08.59.22.ASSEMBLING FRWENT
08.59.30. ASSEMBLY COMPLETE.
08.59.32.END
09.01.14.FIN
09.01.14.CPU TIME: 022.617 SECONDS
09.01.14.SYS TIME: 005.345 SECONDS
09.01.14.SYSTEXT : 1165 LINES

09.01.37. 04/25/71 TSS SCOPE 3.0
09.01.39.CPU = 000 SEC : CM = 014000
09.01.41.FILE,UPDATE
09.01.41.RFL,20000
09.01.42.CPU = 000 SEC : CM = 020000
09.01.42.TEXT,OUTPUT
09.01.42.GET,BINARY,DISKSYS
09.01.42.REWIND,LGO
09.01.42.END
09.01.42.REWIND,BINARY
09.01.43.END
09.01.43.REWIND,TBIN
09.01.43.END
09.01.43.COPYL,BINARY,LGO,TBIN
09.01.47. FRWENT UPDATED
09.01.48.COPYL DONE
09.01.48.END
09.01.48.REWIND,TBIN
09.01.49.END
09.01.49.REWIND,BINARY
09.01.49.END
09.01.49.COPYF,TBIN,BINARY
09.01.53.END
09.01.53.REWIND,LGO
09.01.53.END
09.02.25.FIN
09.02.25.CPU TIME: 000.987 SECONDS
09.02.25.SYS TIME: 010.555 SECONDS
09.02.25.SYSTEM TEXT: 028 LINES

END OF FILE

