

ADDRESS	LENGTH	BINARY CONTROL CARDS.	
0	170	IDENT	TRAVERS
170		END	

ENTRY POINTS.

TRAVERS	=	0	PAGEIN	=	71	FADDR	=	160
TRAVRET	=	37	PAGEOUT	=	110	SWREAD	=	133

EXTERNAL SYMBOLS.

RLINK2	AP8	ERRPACK	GETRESP	RELCLAM	M.TVRES	GF.IOTF	DAB
CELLS2	TEMP0	STKBUF	TR.DRIV	RELEASE	M.HELP	GF.IOTL	DA.LEN
RLINK3	TEMP1	SETPCNT	TR.LEVL	FRW	M.SWAB	GF.DDSF	DA.LOG
CELLS3	TEMP2	DISKENT	BLK.SIZ	MAKEMAP	M.ABFCH	GF.DDSL	DA.ABNO
RLINK5	TEMP3	DISKERR	BLK.DTY	LOADBUF	M.ABFIL	GF.DATF	DA.FILS
CELLS5	TEMP4	DISKINT	BLK.FLG	AUDIT	M.ACREQ	GF.DATL	DA.FREE
COMMR0F	TEMP5	FRWENT	SW.SW	NOGLOCK	M.ACRES	GF.APTF	DA.LOCK
COMMR0L	TEMP6	FRWERR	SW.DDS	PROBE	M.USRCC	GF.APTL	DA.HASH
COMMRWF	TEMP7	FRWINT	PG.PG	RETCLX	M.FRWCC	GF.HSHF	DA.SUSP
COMMRWL	TEMP8	ENTER	PG.DDS	SYSERR	M.TRMCC	FHRHASH	DA.SRES
HOLDBLK	TEMP9	CLKBUF	PG.DTY	FRETURN	M.CLOCC	DARHASH	DA.SOCC
LOCTAB	TEMP10	DSYSIM	PTR.PTR	RETURN	M.ACTCC	GF.HSHL	DA.DRES
LOCTARF	TEMP11	DSWPTIM	PTR.DDS	RETPAR	M.TRYCC	GF.TRVF	DA.DOCC
LOCTABL	TEMPA	DUSRIM	PTR.CM	ERRPARM	M.DFILT	FHB	DA.SCHG
LFT	TEMPB	MYSCRF	PTR.DTY	ERRFILE	M.DOBJJ	FB.LEN	DA.DCHG
FLDLEN	TEMPC	MYCODF	PTR.NUM	ERRALOC	NOBUS	FB.NAME	DA.TIME
USERRWF	TEMPE	MYSUBP	CREATE	ERRMAP	M.BFILE	FB.WD3	DAR
USERRWL	TEMPE	MYEVCH	CREBLK	CALBEAD	M.DDREQ	FB.SHAP	LFTFREE
DATMAP	TEMPF	REAUCAP	DELBLK	REGS	M.DDRSP	FB.FUND	LFHADDR
TERMRWL	TEMPG	WRITCAP	OPEN	D.ENTRY	M.RBUFS	FHR	DARADDR
TERMR0F	TEMPH	SAVEREG	ATTACH	D.FNAME	M.WBUFS	FR.LEN	PAGESW
TERMRWF	TEMPV	RESTREG	DETACH	DBUG1	M.SLOTS	FR.NAME	MAPBUF
CLOSRWF	TEMPW	MAINCL	CONVERT	DSKLCK	M.LOCKS	FR.WD1	SIZES
CLOSRWL	TEMPX	FILCL	SETUP	DBUG2	NLOCKS	FR.WD2	SIZE
CLOSROF	TEMPY	SLEEP	DECODE	M.AUTH	M.FHRL	FR.WD3	NUMRESP
READRWF	TEMPZ	MYRESP	CRELFH	M.MKCAP	M.DARL	FR.SUSP	CREATER
READRWL	MYIDENT	RESP	OPENDAR	REDSHP	M.HASHL	FR.LOCK	CREBLKR
READONF	MYDAR	GFIL	PRVOPEN	GOSKHDR	M.ADDS	FR.DAR	DELBLKR
READONL	MYUNIT	HFILE	MKPTR	FDSKHDR	M.ASUSP	FR.OPEN	OPENR
HENTRY	MYSW0CC	FILECAP	DSPTR	GDSKPTR	M.ADISK	FR.CAPX	ATTACHR
DENTRY	DDSIPL	CTEMP	CLOSE	FDSKPTR	M.SDISK	FR.DBSZ	DETACHR
ORGADDR	IOTIPL	UDSKSCR	ECLOSE	GDSKDAT	M.FDISK	FR.ONEL	ZROMAPR
ORGCLST	HASHIPL	BFILE	DARSPA	FDSKDAT	M.FCLEV	FR.FROZ	CHMAPR
ORGMAP	SUSIPL	DDRSP	ZEROMAP	GETDSK	M.UNAME	FR.WRIT	CHMAPB1
INTDAT	DATIPL	RBUFS	CHMAP	FREEDSK	M.USCTR	FR.SIZE	SETUPR
AP0	APTIPL	RETRY	CLODAR	BUSYDSK	M.OPCL	FR.SHAP	CREATB1
AP1	RETPARM	SLOTS	HASH	L.MNCL	M.IOCTR	FR.FUND	CLOSER
AP2	RETRER	HBR	DELHASH	M.GFILE	M.TWAIT	FR.FLAG	MOVBLKR
AP3	PASSERR	HBW	EXCLAIM	M.HFILE	M.CLTIM	FR.ROOT	CREPTRR

AP4	USRPACK	PBR	SHCLAIM	M.FILCL	M.10SEC	FR.CLAM	DORESPR
AP5	IOTBUF	PBW	LOCK	M.EMPTY	GF.LEN	FR.MEMB	ERRNUM
AP6	PROCADR	DBR	UNLOCK	M.RETRY	GF.SUSF	FHRADDR	ERRCLAS
AP7	ERRADDR	DBW	UNLOCKW	M.CLOSE	GF.SUSL	FILEADR	TABADDR

```

IDENT          TRAVERS
ENTRY          TRAVERS,TRAVRET,PAGEIN,PAGEOUT,FADDR,SWREAD
PARAMS        XTEXT
MACROS        XTEXT
*
* FILE TREE TRAVERSAL DRIVING ROUTINE. TRAVERSES THE POINTER-BLOCK
* TREE OF A FILE, VISITING EACH BLOCK AFTER TRAVERSING ITS
* DESCENDENT SUBTREES (POSTORDER TRAVERSAL). FOR EACH BLOCK, THE
* TRAVERSER JUMPS THROUGH A 16-WAY DRIVE SWITCH TO ONE OF 16
* ROUTINES PROVIDED BY THE CALLER.
*
* ON ENTRY..FHR IN AND LOCKED
*           B5 = DRIVE SWITCH ADDR
*
* USES..A2/X2 THRU A7/X7,B1,B2,B4 THRU B7,TEMPG,TEMPH
*
* CALLS DRIVEN ROUTINES WITH..
*           B1 = LEVEL OF CURRENT POINTER.
*           (-1 FOR ROOT PTR IN FHR,
*            0 FOR PTR IN ROOT PTR BLOCK, ETC.)
*           CURRENT POINTER IN PTR AREA!
*           PTR.PTR = COPY OF POINTER
*           PTR.DDS = DDS ADDRESS OF POINTER
*           PTR.DTY = DIRTY FLAG (SET IF PTR.PTR IS CHANGED)
*
* DRIVEN ROUTINES MAY USE ALL REGISTERS
*
* DRIVEN ROUTINES RETURN TO LABEL TRAVRET
*
* START WITH ROOT POINTER IN FHR (LEVEL = -1)
*
0          TRAVERS  ROUTINE  2
*
1          76650
5160000000 X          SX6          R5
5140000000 X          SA6          TR,DRIV          SAVE DRIVE SWITCH ADDR
2          43712          SA4          FR,SHAP          FHR SHAPE WORD
          11674          MX7          10
          20612          BX6          X7*X4
3          5160000000 X          LX6          10          POSITION S1
          43770          SA6          BLK,SIZ
4          15647          MX7          6*-4
          0306000010 +          BX6          -X7*X4
          63460          ZR          X6,TRAV2
5          7160000001          SB4          X6
          22646          SX6          1
6          5066000001          LX6          B4,X6          S(I) = 2 ** L(I)
          21404          SA6          A6+1          STORE NEXT SHAPE NUMBER
7          0200000004 +          AX4          4
10         6110777776          JP          TRAV1
          7170000012 +          SB1          -1
          CALL          GETPTR
    
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*
* PROCESS POINTER
*
12 5140000000 X          TRAV10  SA4      PTR.PTR
      43604              MX6      4
      11646              BX6      X4*X6      EXTRACT TYPE AND STATUS
13 20604                LX6      4
      7276777765        SX7      X6-T.PTR-S.IN.FX
14 0307000016 *        ZR       X7,TRAV20  JUMP IF POINTER BLOCK THAT IS IN
      63465              SB4      X6+BS
*
15 5160000000 X          SX6      B1         SAVE LEVEL
      76610              SA6      TR.LEVL
*
      0240000000        JP       B4         DRIVE THROUGH SWITCH
*
* PUSH NEXT LEVEL OF FILE TREE INTO STACK
*
16 7170000017 *        TRAV20  CALL     PAGEOUT  MOVE CURRENT PAGE OUT TO DDS
17 6111000001          SB1      B1+1     INCR STACK LEVEL
      7170000021 *        CALL     SWFIND  FIND NEW PAGE SWITCH IN DDS
21 7170000022 *        CALL     SWREAD  READ NEW PAGE SWITCH FROM DDS
*
22 5150000000 X          SA5      SW.SW    DDS ADDRESS OF 1ST PAGE
      10755              BX7      X5
23 5171000000 X          SA7      B1+PG.DDS
      7170000025 *        CALL     PAGEIN  MOVE NEW PAGE IN FROM DDS
*
25 13600                BX6      X0-X0
      5161000000 X        SA6      B1+PTR.NUM  START WITH POINTER ZERO
26 5161000000 X        SA6      B1+BLK.DTY  MARK BLOCK CLEAN
      5161000000 X        SA6      B1+BLK.FLG  CLEAR FLAG WORD
27 7170000012 *        CALL     GETPTR,TRAV10  GET POINTER AND GO PROCESS IT
*
* POP CURRENT LEVEL OUT OF STACK AND PROCESS THE POINTER TO IT
*
30 7170000031 *        TRAV40  CALL     PAGEOUT  MOVE PAGE OUT TO DDS
*
31 6111777776          SB1      B1-1     DECR STACK PTR
*
      7170000033 *        CALL     SWREAD  READ PAGE SWITCH FROM DDS
33 7170000034 *        CALL     PAGEIN  MOVE IN NEW PAGE FROM DDS
34 7170000035 *        CALL     GETPTR  GET POINTER
*
35 76610                SX6      B1         SAVE LEVEL
      5160000000 X        SA6      TR.LEVL
*
36 0250000012          JP       B5+T.PTR+S.IN.FX  PROCESS PTR

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```

*
* RETURN FROM TRAVERSER-DRIVEN ROUTINES
*
37 5140000000 X          TRAVRET  SA4      TR.LEVL      RESTORE STACK LEVEL
      5150000000 X          SA5      TR.DRIV      RESTORE DRIVE SWITCH ADDR
40 63140                SB1      X4
      63550                SB5      X5
*
      0610000043 *
41 5150000000 X          PL        B1+TRAVR1    JUMP IF POINTER WAS NOT ROOT
      X          EXIT      EXIT IF POINTER WAS ROOT
*
43 5140000000 X          TRAVR1  SA4      PTR.DTY      PICK UP DIRTY FLAG
      0304000047 *        ZR      X4,TRAVR2    JUMP IF CLEAN
44 5140000000 X          SA4      PTR.PTR
      5150000000 X        SA5      PTR.CM
45 10644                BX6      X4          COPY POINTER
      53650                SA6      X5          BACK TO PAGE
*
      7160000001
46 5161000000 X          SX6      1
      X          SA6      B1+PG.DTY    MARK PAGE DIRTY
*
47 5121000000 X          TRAVR2  SA2      B1+PTR.NUM   INCR POINTER NUMBER
      7262000001        SX6      X2+1
50 54620                SA6      A?
*
      5151000000 X        SA5      B1+BLK.SIZ   CHECK FOR END OF
      37556              IX5      X5-X6        POINTER BLOCK
51 0305000030 *        ZR      X5,TRAV40
*
      10366
      43271
52 15132                BX3      X6
      X          MX2      50-3
      X          BX1      -X2*X3        DISP IN PAGE.
*
      0311000057 *
53 7170000054 *        NZ      X1,TRAVR3    JUMP IF NOT END OF PAGE
      X          CALL     PAGEOUT  MOVE PAGE OUT TO DDS.
*
54 11423                BX4      X2*X3        PAGE NUMBER
      21473            AX4      3            POSITION PAGE NUMBER
      5254000000 X        SA5      SW.SW+X4     PICK UP PAGE ADDR
55 10655                BX6      X5
      5161000000 X        SA6      B1+PG.DDS    DDS ADDRESS OF PAGE
56 7170000057 *        CALL     PAGEIN   MOVE THE PAGE IN FROM DDS.
*
57 7170000012 *        TRAVR3  CALL     GETPTR,TRAV10  GET PTR AND GO PROCESS IT
    
```

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*
* MOVE CURRENT PTR FROM STACK TO WORK AREA
*
60      GETPTR      ROUTINE      3
        0610000062 *
61      7160000000 X          PL          B1,GETPTR1
        0200000066 *          SX6         FR,ROOT
        0200000066 *          JP          GETPTR2
*
62      5151000000 X          #
        43671              GETPTR1    SA5          B1+PTR,NUM
        15556              MX6         60-3
        15556              BX5         -X6*X5          DISP IN PAGE
*
63      5141000000 X          #
        36645              SA4         B1+PG,DDS      DDS ADDR OF PAGE
64      5160000000 X          IX6         X4+X5          ADD DISP IN PAGE
        13600              SA6         PTR,DDS      STORE DDS ADDR OF POINTER
*
65      5160000000 X          #
        13600              BX6         X0-X0
        5160000000 X          SA6         PTR,DTY      MARK PTR CLEAN
*
66      5160000000 X          #
        7265000000 X          GETPTR2  SX6         PG,PG+X5      ADDR OF PAGE + DISP
        53460              SA6         PTR,CM       STORE CM ADDR OF POINTER
        10644              SA4         X6           PICK UP COPY OF POINTER
67      5160000000 X          BX6         X4
        5150000000 X          SA6         PTR,PTR     STORE IN WORK AREA
*
*
*
* MOVE CURRENT POINTER PAGE FROM DDS TO CM
*
71      PAGEIN     ROUTINE      5
        07100000106 *
72      13600      NG          B1,PGIN1
        5161000000 X          BX6         X0-X0
63      5141000000 X          SA6         B1+PG,DTY     MARK PAGE CLEAN
        7160000000 X          SA4         B1+PG,DDS     DDS ADDR OF PAGE
106     5150000000 X          REDDS      X4,PG,PG,8    READ PAGE
        5150000000 X          PGIN1     EXIT
*
*
* MOVE CURRENT PAGE FROM CM TO DDS IF DIRTY
*
110     PAGEOUT    ROUTINE      5
        07100000125 *
111     5141000000 X          NG          B1,PGOUT1
        03040000125 *          SA4         B1+PG,DTY     TEST IF PAGE DIRTY
        03040000125 *          ZR          X4,PGOUT1     IF CLEAN, NOTHING TO DO
*
112     5141000000 X          #
        7160000000 X          SA4         B1+PG,DDS     DDS ADDR OF PAGE
125     5150000000 X          WRDDS      X4,PG,PG,8    WRITE PAGE
        5150000000 X          PGOUT1    EXIT

```

```

*
* FIND CURRENT PAGE SWITCH IN DDS
*
127          SWFIND  ROUTINE  3
              5140000000 X    SA4    PTR.PTR
130  43722    MX7    60-10-24
              15747        BX7    -X7*X4
              21730        AX7    24
131  5171000000 X    SA7    B1+SW.DDS    STORE PAGE SWITCH ADDR
              5150000000 X    EXIT

*
* READ CURRENT PAGE SWITCH FROM DDS TO CM, SWITCH IS UNPACKED INTO
* 16 WORDS, ONE PAGE-POINTER PER WORD
*
133          SWREAD  ROUTINE  5
              0710000156 *    NG     B1,SWREAD2
134  5141000000 X    SA4    B1+SW.DDS    DDS ADDRESS OF PAGE SWITCH
              7160000000 X    REDDS  X4,SW,SW,B
147  5140000007 X    SA4    SW,SW+7
              43536        MX5    30    MASK EXTRACTS ONE PAGE POINTER
              11754        BX7    X5*X4
150  20736      LX7    30
              5170000017 X    SA7    SW,SW+15
              15745        BX7    -X5*X4
151  5077777776    SA7    A7-1
152  5044777776    SWREAD1 SA4    A4-1
              11754        BX7    X5*X4
              20736      LX7    30
153  5077777776    SA7    A7-1
              15745        BX7    -X5*X4
154  5077777776    SA7    A7-1
              64270      SB2    A7
              65242      SB2    A4-B2
155  05200000152 *    NZ     B2,SWREAD1
156  5150000000 X    SWREAD2 EXIT
    
```

```

*
* COMPUTE FILE ADDR OF CURRENT DATA BLOCK
*
160          13300
          5140000000 X
161          5150000000 X
          43777
          0200000165 +
          36335
          63760
          22373
163          5055000000
          21404
          15647
          0316000163 +
165          5150000000 X
          167
          170
          37463
          6600 ASSEMBLY
          2203 STATEMENTS
          11.488 SECONDS
          437 SYMBOLS
          162 REFERENCES
          000019 INVENTED SYMBOLS

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```

*
* FADDR ROUTINE 3
BX3 X0-X0
SA4 FR.SHAP
SA5 PTR.NUM INDEX IN ROOT PTR BLK
MX7 60-4
JP FADDR2

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```

*
* FADDR1 IX3 X3+X5 INCR FILE ADDR
SB7 X6
LX3 B7,X3 MULT BY S(I)
SA5 A5+1 INDEX IN NEXT PTR BLK
AX4 4

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```

*
* FADDR2 BX6 -X7*X4 NEXT L(I)
NZ X6,FADDR1 IF NON-ZERO, LOOP BACK
EXIT IF ZERO, ALL DONE

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*
* SYMBOLS XTEXT

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*
* END

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37463 STORAGE USED 2203 STATEMENTS 437 SYMBOLS 000019 INVENTED SYMBOLS
6600 ASSEMBLY 11.488 SECONDS 162 REFERENCES

```


DA.ABNO	0	EXTERNAL*								
DA.DCHG	0	EXTERNAL*								
DA.DOCC	0	EXTERNAL*								
DA.DRES	0	EXTERNAL*								
DA.FILS	0	EXTERNAL*								
DA.FREE	0	EXTERNAL*								
DA.HASH	0	EXTERNAL*								
DA.LEN	0	EXTERNAL*								
DA.LOCK	0	EXTERNAL*								
DA.LOG	0	EXTERNAL*								
DA.SCHG	0	EXTERNAL*								
DA.SOCC	0	EXTERNAL*								
DA.SRES	0	EXTERNAL*								
DA.SUSP	0	EXTERNAL*								
DA.TIME	0	EXTERNAL*								
DRP	0	EXTERNAL*								
DRUG1	0	EXTERNAL*								
DRUG2	0	EXTERNAL*								
DRW	0	EXTERNAL*								
DORSP	0	EXTERNAL*								
DDSIPL	0	EXTERNAL*	6/37 S	6/37 S	6/37	6/49 S	6/49 S	7/19 S	7/19 S	7/19
			6/37 S	6/37 S	6/49 S	6/49 S	6/49	7/19 S	7/19 S	
DECODE	0	EXTERNAL*								
DELRLK	0	EXTERNAL*								
DELRLK2	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*								
DSKLOCK	0	EXTERNAL*								
DSPTR	0	EXTERNAL*								
DSWPTIM	0	EXTERNAL*								
DSYSTIM	0	EXTERNAL*								
DUSRTIM	0	EXTERNAL*								
D.ENTRY	0	EXTERNAL*								
D.FNAME	0	EXTERNAL*								
ECLOSE	0	EXTERNAL*								
ENTER	0	EXTERNAL*								
ERRADDR	0	EXTERNAL*								
ERRALOC	0	EXTERNAL*								
ERRCLAS	0	EXTERNAL*								
ERRFILE	0	EXTERNAL*								
ERRMAP	0	EXTERNAL*								
ERRNUM	0	EXTERNAL*								
ERRPACK	0	EXTERNAL*								
ERRPARM	0	EXTERNAL*								
EXCLAIM	0	EXTERNAL*								
FADDR	160	PROGRAM*	3/02 E	8/04 L						
FADDR1	163	PROGRAM*	8/11 L	8/18						

FADDR2	165	PROGRAM*	8/09	8/17 L				
FB.FUND	0	EXTERNAL*						
FB.LEN	0	EXTERNAL*						
FB.NAME	0	EXTERNAL*						
FB.SHAP	0	EXTERNAL*						
FB.WDS	0	EXTERNAL*						
FDSKDAT	0	EXTERNAL*						
FDSKHDR	0	EXTERNAL*						
FDSKPTR	0	EXTERNAL*						
FHR	0	EXTERNAL*						
FHR	0	EXTERNAL*						
FHRADDR	0	EXTERNAL*						
FHRHASH	0	EXTERNAL*						
FILCL	0	EXTERNAL*						
FILEADR	0	EXTERNAL*						
FILECAP	0	EXTERNAL*						
FILELEN	0	EXTERNAL*						
FREEFSK	0	EXTERNAL*						
RETURN	0	EXTERNAL*						
FR	0	EXTERNAL*						
FRWENT	0	EXTERNAL*						
FRWERR	0	EXTERNAL*						
FRWINT	0	EXTERNAL*						
FR.CAPK	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.MFMB	0	EXTERNAL*						
FR.NAME	0	EXTERNAL*						
FR.ONEL	0	EXTERNAL*						
FR.OPEN	0	EXTERNAL*						
FR.ROOT	0	EXTERNAL*	6/06					
FR.SHAP	0	EXTERNAL*	3/38	8/06				
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*						
GETPTR	60	PROGRAM*	4/01	4/34	4/44	5/45	6/04 L	
GETPTR1	62	PROGRAM*	6/05	6/09 L				
GETPTR2	66	PROGRAM*	6/07	6/21 L				
GETRESP	0	EXTERNAL*						
GFILE	0	EXTERNAL*						

GF.APTF	0	EXTERNAL*			
GF.APTL	0	EXTERNAL*			
GF.DATF	0	EXTERNAL*			
GF.DATL	0	EXTERNAL*			
GF.DDSF	0	EXTERNAL*	6/37	6/49	7/19
GF.DDSL	0	EXTERNAL*	6/37	6/49	7/19
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*			
HASH	0	EXTERNAL*			
HASHIPL	0	EXTERNAL*			
HRR	0	EXTERNAL*			
HRW	0	EXTERNAL*			
HENTRY	0	EXTERNAL*			
HFILE	0	EXTERNAL*			
HOLDRLK	0	EXTERNAL*			
INTDAT	0	EXTERNAL*			
IOTRUF	0	EXTERNAL*			
IOTIPL	0	EXTERNAL*			
LFHADD0	0	EXTERNAL*			
LFT	0	EXTERNAL*			
LFTFREE	0	EXTERNAL*			
LOADRUF	0	EXTERNAL*			
LOCK	0	EXTERNAL*			
LOCTAB	0	EXTERNAL*			
LOCTABF	0	EXTERNAL*			
LOCTABL	0	EXTERNAL*			
L.MNCL	0	EXTERNAL*			
MAINCL	0	EXTERNAL*			
MAKEMAP	0	EXTERNAL*			
MAPPBUF	0	EXTERNAL*			
MKPTR	0	EXTERNAL*			
MOVBLKR	0	EXTERNAL*			
MYCODEF	0	EXTERNAL*			
MYDAB	0	EXTERNAL*			
MYEVCH	0	EXTERNAL*			
MYIDENT	0	EXTERNAL*			
MYRESP	0	EXTERNAL*			
MYSCRF	0	EXTERNAL*			
MYSURP	0	EXTERNAL*			
MYSWOC	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.DFILT	0	EXTERNAL*					
M.DORJS	0	EXTERNAL*					
M.EMPTY	0	EXTERNAL*					
M.FCLEV	0	EXTERNAL*					
M.FDISK	0	EXTERNAL*					
M.FHRL	0	EXTERNAL*					
M.FILOL	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*					
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.UINAME	0	EXTERNAL*					
M.USCTR	0	EXTERNAL*					
M.USRCC	0	EXTERNAL*					
M.WBUFS	0	EXTERNAL*					
M.IOGEC	0	EXTERNAL*					
NLOCKS	0	EXTERNAL*					
NOBJS	0	EXTERNAL*					
NOGLOCK	0	EXTERNAL*					
NUMRESP	0	EXTERNAL*					
OPEN	0	EXTERNAL*					
OPENDAR	0	EXTERNAL*					
OPENR	0	EXTERNAL*					
ORGADDR	0	EXTERNAL*					
ORGCLST	0	EXTERNAL*					
ORGMAP	0	EXTERNAL*					
PAGEIN	71	PROGRAM*	3/02 E	4/28	4/43	5/43	6/31 L
PAGEOUT	110	PROGRAM*	3/02 E	4/20	4/38	5/36	6/42 L
PAGESW	0	EXTERNAL*					

PASSERR	0	EXTERNAL*							
PBR	0	EXTERNAL*							
PRW	0	EXTERNAL*							
PGINI	106	PROGRAM*	6/32	6/37 L					
PGOUT1	125	PROGRAM*	6/43	6/45	6/49 L				
PG.DDS	0	EXTERNAL*	4/26 S	5/41 S	6/13	6/35	6/47		
PG.DTY	0	EXTERNAL*	5/20 S	6/36 S	6/44				
PG.PG	0	EXTERNAL*	6/20	6/37	6/49				
PROBE	0	EXTERNAL*							
PROCADR	0	EXTERNAL*							
PRVOPEN	0	EXTERNAL*							
PTR.CM	0	EXTERNAL*	5/15	6/21 S					
PTR.DDS	0	EXTERNAL*	6/15 S						
PTR.DTY	0	EXTERNAL*	5/12	6/18 S					
PTR.NUM	0	EXTERNAL*	4/30 S	5/22	6/09	6/07			
PTR.PTR	0	EXTERNAL*	4/04	5/14	6/24 S	7/05			
RBUFS	0	EXTERNAL*							
READCAP	0	EXTERNAL*	6/36	7/18					
READONF	0	EXTERNAL*							
READONL	0	EXTERNAL*							
READRWF	0	EXTERNAL*							
READRWL	0	EXTERNAL*							
REDSHP	0	EXTERNAL*							
REGS	0	EXTERNAL*							
RELOCLM	0	EXTERNAL*							
RELEASE	0	EXTERNAL*							
RESP	0	EXTERNAL*							
RESTREG	0	EXTERNAL*							
RETCLK	0	EXTERNAL*							
RETRR	0	EXTERNAL*							
RETRAR	0	EXTERNAL*							
RETRARM	0	EXTERNAL*							
RETRY	0	EXTERNAL*							
RETURN	0	EXTERNAL*							
RLINK2	0	EXTERNAL*	3/35 S	5/10					
RLINK3	0	EXTERNAL*	6/05 S	6/26	7/05 S	7/10	8/05 S	8/19	
RLINK5	0	EXTERNAL*	6/32 S	6/37	6/43 S	6/49	7/16 S	7/35	
SAVEREG	0	EXTERNAL*							
SETPCNT	0	EXTERNAL*							
SETUP	0	EXTERNAL*							
SETUPR	0	EXTERNAL*							
SHCLAIM	0	EXTERNAL*							
SIZE	0	EXTERNAL*							
SIZES	0	EXTERNAL*							
SLEEP	0	EXTERNAL*							
SLOTS	0	EXTERNAL*							
STKBUF	0	EXTERNAL*							
SUSPIPL	0	EXTERNAL*							
SWFIND	127	PROGRAM*	4/22	7/04 L					
SWREAD	133	PROGRAM*	3/02 E	4/23	4/42	7/15 L			
SWREAD1	152	PROGRAM*	7/26 L	7/34					
SWREAD2	156	PROGRAM*	7/16	7/35 L					
SW.DDS	0	EXTERNAL*	7/09 S	7/17					

SW.SW	0	EXTERNAL*	4/24	5/39	7/19	7/19	7/23 S
SYSERR	0	EXTERNAL*	6/37	6/37	6/49	7/19	7/19
			6/37	6/49	6/49	7/19	
S.IN.FX	2		4/08	4/48			
TARADDR	0	EXTERNAL*					
TEMPA	0	EXTERNAL*					
TEMPB	0	EXTERNAL*					
TEMPC	0	EXTERNAL*					
TEMPO	0	EXTERNAL*					
TEMPE	0	EXTERNAL*					
TEMPF	0	EXTERNAL*					
TEMPI	0	EXTERNAL*					
TEMPJ	0	EXTERNAL*					
TEMPK	0	EXTERNAL*					
TEMPL	0	EXTERNAL*					
TEMPM	0	EXTERNAL*					
TEMPN	0	EXTERNAL*					
TEMPO	0	EXTERNAL*					
TEMPQ	0	EXTERNAL*					
TEMPR	0	EXTERNAL*					
TEMPS	0	EXTERNAL*					
TEMPT	0	EXTERNAL*					
TEMPU	0	EXTERNAL*					
TEMPV	0	EXTERNAL*					
TEMPW	0	EXTERNAL*					
TEMPI	0	EXTERNAL*					
TEMPI0	0	EXTERNAL*					
TEMPI1	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*					
TERMR0F	0	EXTERNAL*					
TERMRWF	0	EXTERNAL*					
TERMRWL	0	EXTERNAL*					
TRAVERS	0	PROGRAM*	3/02 E	5/34 L			
TRAVRET	37	PROGRAM*	3/02 E	5/04 L			
TRAVR1	43	PROGRAM*	5/09	5/12 L			
TRAVR2	47	PROGRAM*	5/13	5/22 L			
TRAVR3	57	PROGRAM*	5/34	5/44 L			
TRAVI	4	PROGRAM*	3/44 L	3/51			
TRAVI0	12	PROGRAM*	4/04 L	4/33	5/44		
TRAV3	10	PROGRAM*	3/45	3/52 L			
TRAV20	16	PROGRAM*	4/09	4/19 L			
TRAV40	30	PROGRAM*	4/37 L	5/28			
TR.DRIV	0	EXTERNAL*	3/37 S	5/05			
TR.LEVL	0	EXTERNAL*	4/13 S	4/45 S	5/04		
T.PTR	10		4/08	4/48			
UDSKSCR	0	EXTERNAL*					
UNLOCK	0	EXTERNAL*					
UNLOCKW	0	EXTERNAL*					
USERRWF	0	EXTERNAL*					
USERRWL	0	EXTERNAL*					
USRPACK	0	EXTERNAL*					
WRITCAP	0	EXTERNAL*	6/48				

ZEROMAP	0	EXTERNAL*
ZROMAPR	0	EXTERNAL*

16.10.27. 02/15/71 TSS SCOPE 3.0
16.10.29.CPU = 000 SEC : CM = 050000
16.10.37.GET,XTEXT,DISKSYS
16.10.41.FILE,XTEXT
16.10.41.RFL,50000
16.10.41.TEXT,OUTPUT
16.10.41.GET,SYSSURP,MACROS,,RO
16.10.41.GET,MACROS,DISKSYS,,RO
16.10.41.GET,SYMBOLS,DISKSYS,,RO
16.10.42.GET,PARAMS,DISKSYS,,RO
16.10.42.GET,NSKOPS,OPERS,,RO
16.10.42.GET,STACKS,DISKSYS,,RO
16.10.42.GET,ORBITS,DISKSYS,,RO
16.10.42.GET,TYPES,DISKSYS,,RO
16.10.42.GET,ERRORS,DISKSYS,,RO
16.10.42.GET,DSKOPR,DISKSYS,,RO
16.10.43.GET,ACTNUMS,DISKSYS,,RO
16.10.43.GET,SYSCALL,MACROS,,RO
16.10.54.GET,TRAVERS,DISKSYS
16.11.00.NOMPASS,I=TRAVERS,S=0
16.11.00.ASSEMBLING TRAVERS
16.11.20.ASSEMBLING TRAVERS
16.11.27. ASSEMBLY COMPLETE.
16.11.29.END
16.11.31.FIN
16.11.31.CPU TIME: 013.251 SECONDS
16.11.31.SYS TIME: 004.665 SECONDS
16.11.31.SYSTXT : 763 LINES

END OF FILE

