HP 3000

SAVING LOST DATA

- ☐ Types of data
- ☐ How can data be saved
- ☐ directory structure
- ☐ File structure
- ☐ What can be saved
- ☐ How can it be saved
- ☐ Supported utilities
- ☐ Unsupported utilities
- ☐ Examples

TYPES OF DATA

- Disc Files
- Tape Files
- Supporting information

HOW CAN DATA BE LOST

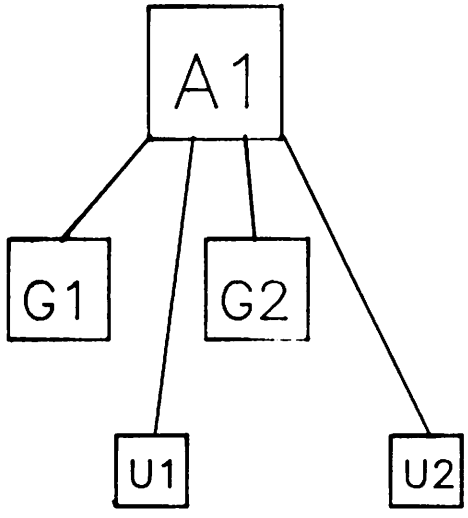
- Human Error
- Software Error
- Hardware Error

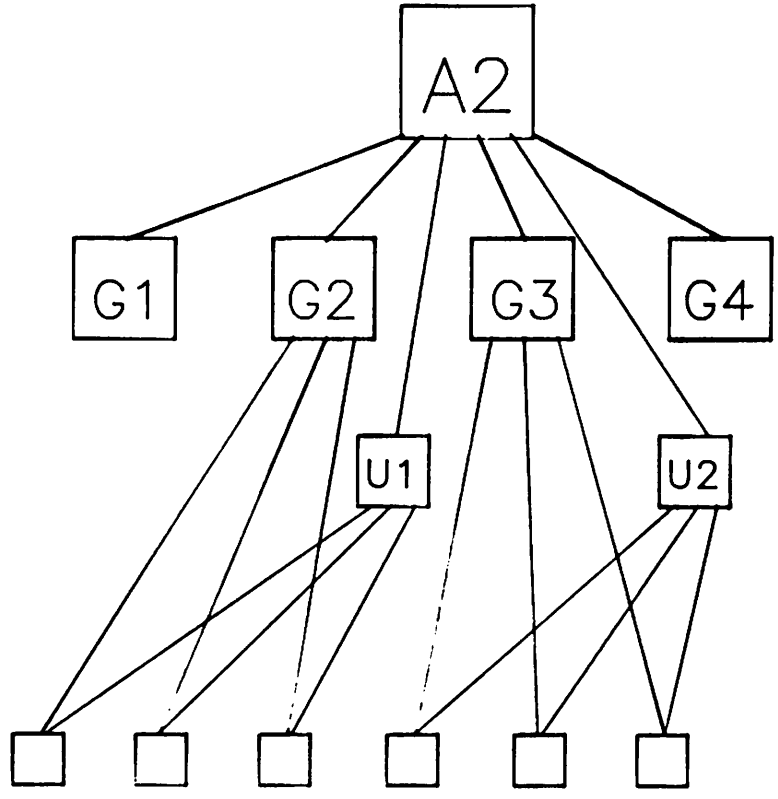
THE DIRECTORY

- What is it
- Why does it exist
- How does it work
- Why do we care

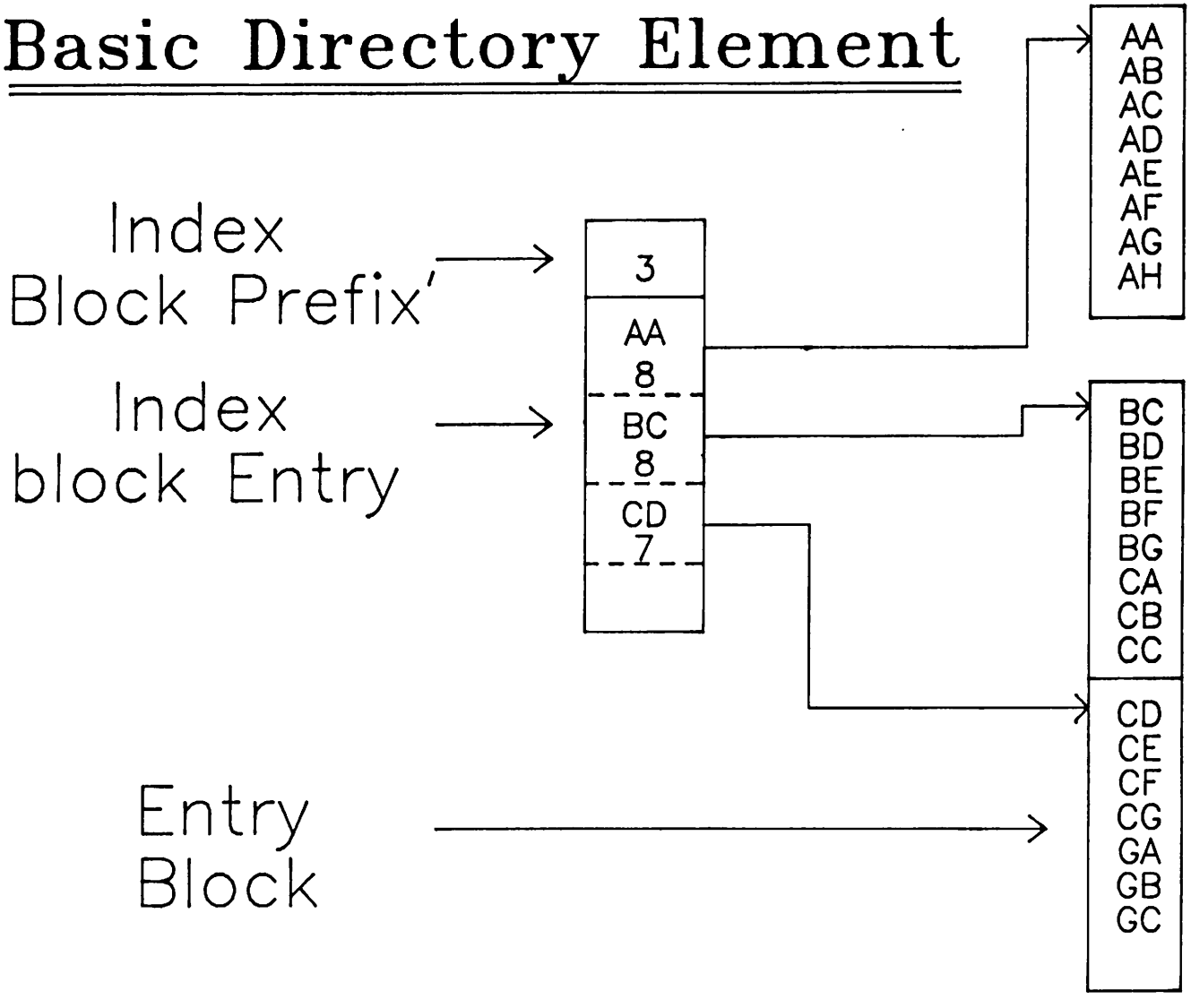
Reference:
System Tables Ref. Mannual
(32002-90003)

ACCOUNTING STRUCTURE

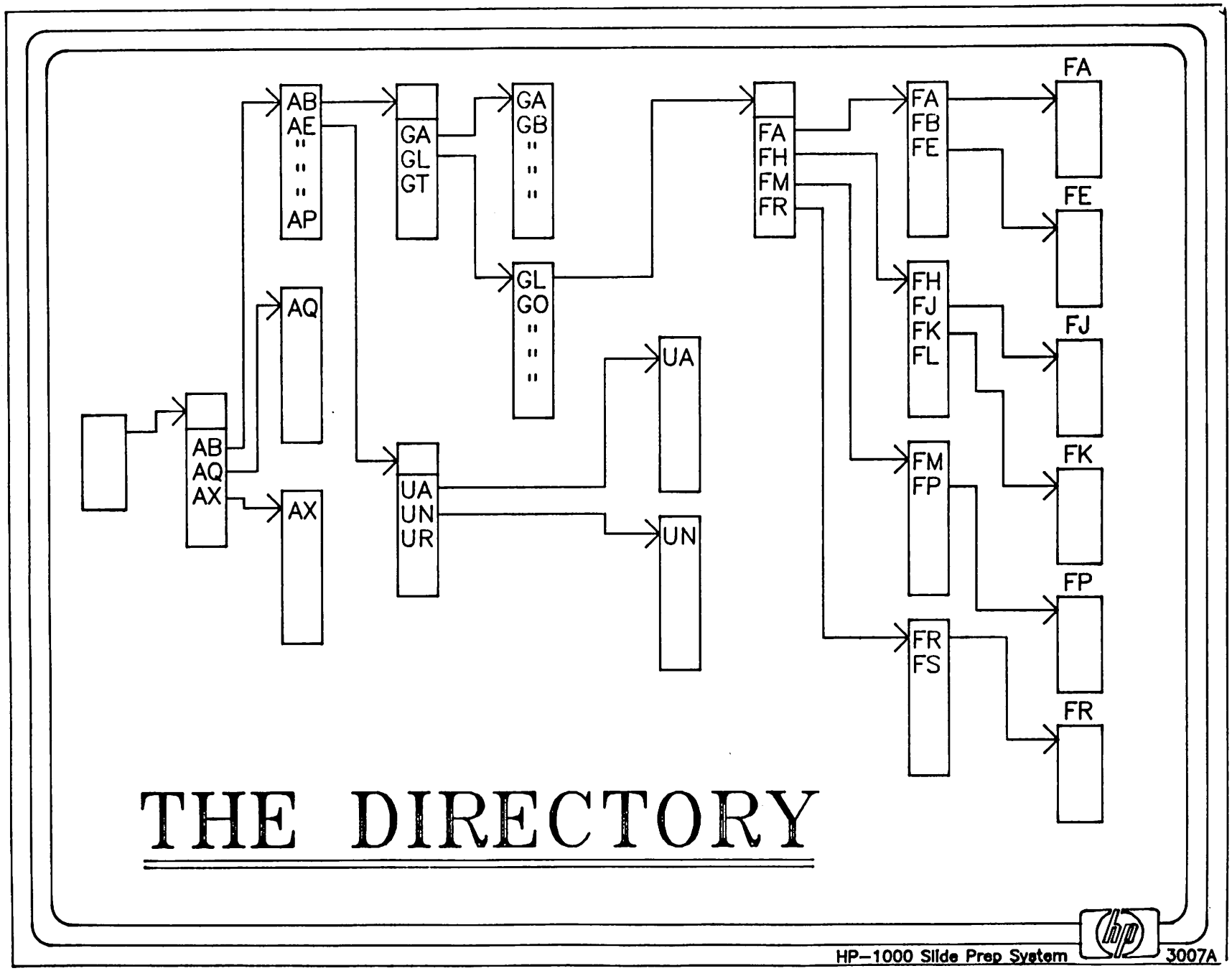


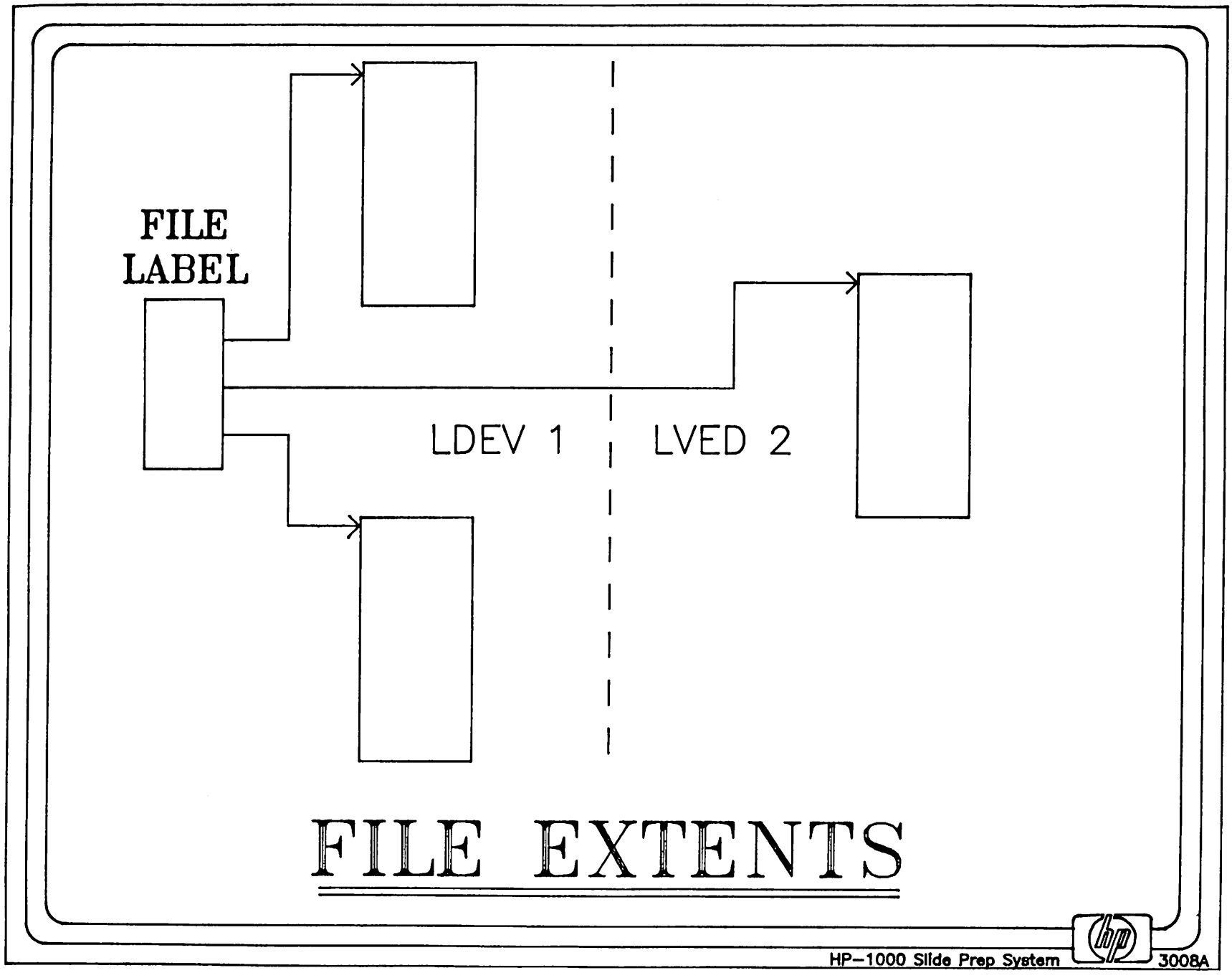


Basic Directory Element



HP-1000 Slide Prep System 3006A


AB
AE
AP
GA
GL
GT
GA
GB
GL
GO
FA
FH
FM
FR
FA
FB
FE
FH
FJ
FK
FL
FM
FP
FR
FS
FA
FE
FJ
FK
FP
FR
AB
AQ
AX
AQ
AX
UA
UN
UR
UA
UN
THE DIRECTORY
HP-1000 Slide Prep System
3007A


FILE
LABEL
LDEV 1
LVED 2
FILE EXTENTS
HP-1000 Slide Prep System
3008A

ACCOUNT ENTRY

- Name
- Password
- Group Pointer
- User Pointer
- Capabilities/Attributes
- Disc Space Count/Limit
- CPU Time Count/Limit
- Connect Time Count/Limit
- File Security

USER ENTRY

- Name
- Password
- Capability
- Local Attributes
- Max Job Priority
- UDC Exist Flag

GROUP ENTRY

- Name
- Password
- Counts/Limits
- File Index Pointer
- Security
- Capability

FILE ENTRY

Name

Label Pointer

FILE LABEL

- NAME
- Lockword
- Security Matrix
- Creation Date
- Access Date
- Modification Date
- File Code
- File Limit
- Rec Size
- Block Size
- Extent Map

Reference:
Software Pocket Guide
(30000-90049)

HP-1000 Slide Prep System 3013A

LISTF ,-1

```
:LISTF BASIC,-1
F  =  BASIC
041101 051511 041440 020040 000400 113173                  BASIC.......
041101 051511 041440 020040 050125 041040 020040 020040 BASIC...PUB....
051531 051440 020040 020040 046501 047101 043505 051040 SYS.....MANAGER
020040 020040 020040 020040 020202 004040 000001 117054 ..............
117074 117073 002005 000000 004000 000000 000000 000542 ..............I
000000 000000 040743 017514 002001 177400 000200 000400 ....A..L.......
000543 000543 000000 000542 000400 113173 000000 000000 .c.c...b.......
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 000000 000000 000000 000000 ..............
000000 000000 000000 000000 042111 051503 020040 020040 ........DISC...
```

WHAT CAN BE SAVED

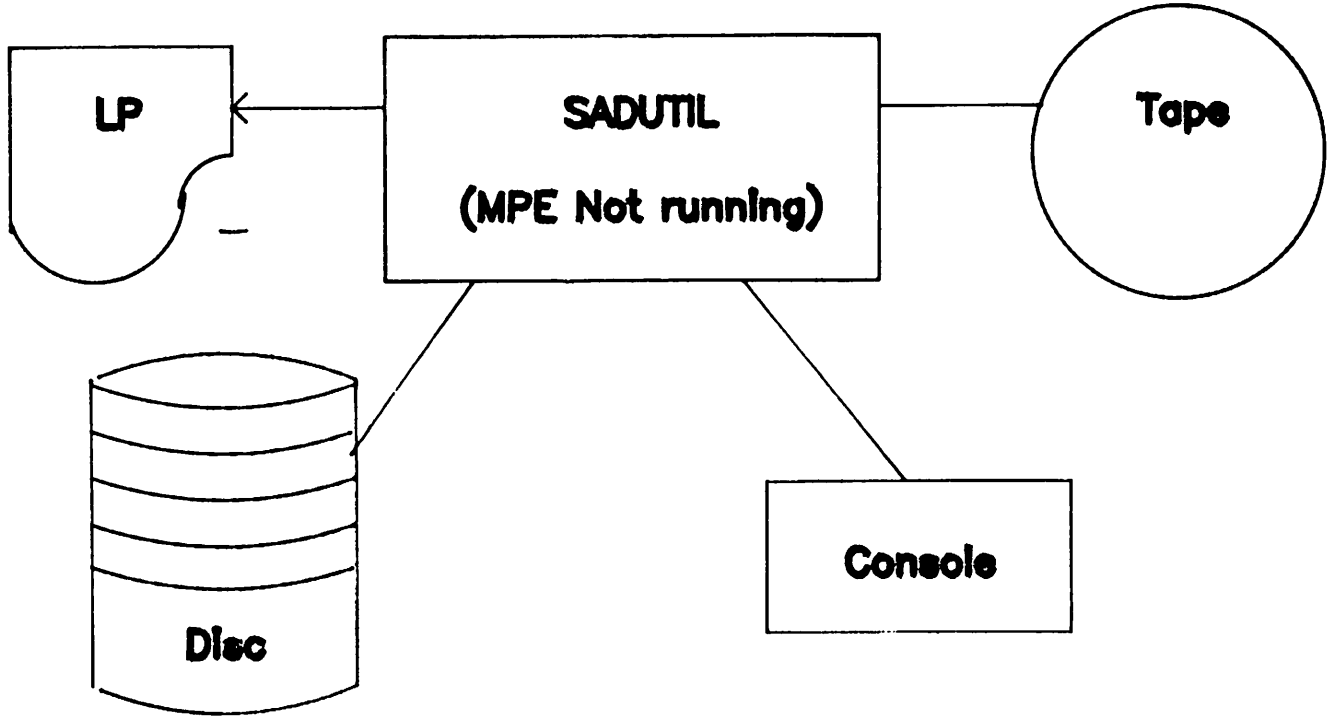
- Disc Files
  - Group Pointer
  - File Label
- Bad Store/Sysdump Tape

How Can It Be Saved

- Utilities
- Write a program

SADUTIL

(stand alone disc utility)



SADUTIL (Stand Alone Disc Utility)

- Save
  - by @
  - by Name
  - by address
- Edit
  - PDSK
  - Modify
- Find

```
DISC UTILITY A01.01 (C) HEWLETT-PACKARD CO., 1976
DEVICE CONFIGURATION CHANGES? Y
PRINTER DRT?
LIST LOGICAL DEVICES? Y
 LDEV  DRT  UNIT  TYPE  SUBTYPE
 ----  ---  ----  ----  -------

DISC CONFIGURATION CHANGES? Y
LOGICAL DEVICE? 1
DRT? 4
UNIT? 0
TYPE? 0
SUBTYPE? 8
LOGICAL DEVICE? 2
DRT? 4
UNIT? 1
TYPE? 0
SUBTYPE? 9
LOGICAL DEVICE?
LIST LOGICAL DEVICES? Y
 LDEV  DRT  UNIT  TYPE  SUBTYPE
 ----  ---  ----  ----  -------

   1     4    0     0       8
   2     4    1     0       9
ENTER FUNCTION: SAVE
 MOUNT TAPE WITH WRITE RING ON MAG. TAPE UNIT 0 OF DRT 6
 FILE NAME (OR LDEV#,%SECTOR ADDRESS)? ANIMAL.PUB.GAMES
 DATE? 1/1/11
 ANIMAL   .PUB      .GAMES      1  %216306
```

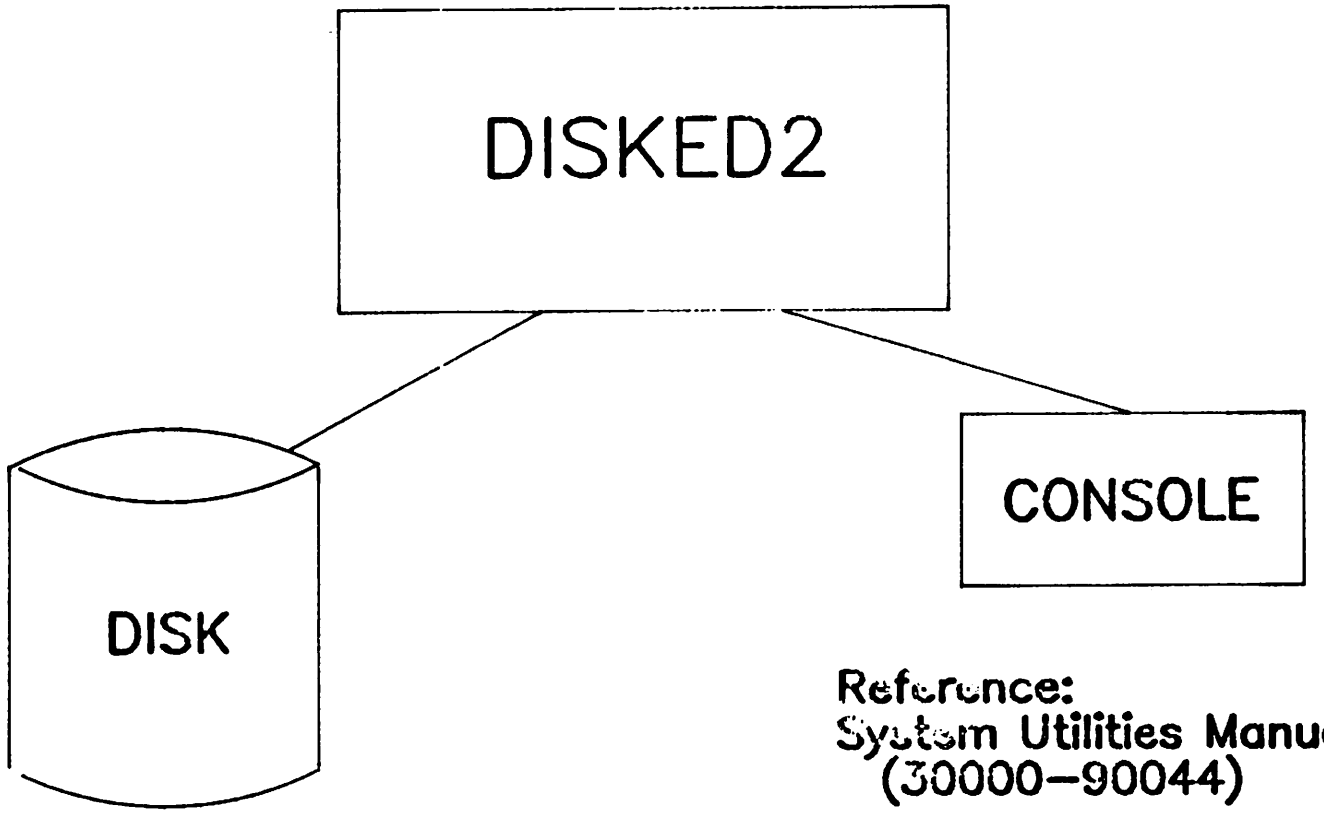
```
FILE NAME (OR LDEV#,%SECTOR ADDRESS)? 1,%231577
FXXX     .ACKERMAN.EASTBAY  - CONTENTS OF LABEL
RETRIEVE THIS FILE (Y/N)? Y
FXXX     .ACKERMAN.EASTBAY    1     231577
FILE NAME (OR LDEV#,%SECTOR ADDRESS)? 2,%130073
OTHELLO  .ACKERMAN.EASTBAY  - CONTENTS OF LABEL
RETRIEVE THIS FILE (Y/N)? Y
OTHELLO  .ACKERMAN.EASTBAY    2     130073
FILE NAME (OR LDEV#,%SECTOR ADDRESS)?
```

```
ENTER FUNCTION: PFIL
 ENTER NAME: @.CANFIELD.STAFF

 ACCOUNT = STAFF      GROUP = CANFIELD

 A          EDCAT      INFO       LIST       SFAIL      SYSFAIL
 TAPEC

 ENTER NAME: @.PUB.UTILS

 ACCOUNT = UTILS      GROUP = PUB

 BADFILE    BLDACCT    BUILDINT   CALC       CFCOPY     CLEAN
 CLKPROG    DEATH      DECOMP     DELMNT     DIAGCPU    DIRPUR3
 DIRPURG2   DISCFIL2   DISCFL3    DISKEDT2   DPAN3      FCOPY
 FILEDISP   FILELIST   FIND       FINDB      FINDF      FINDFIL2
 FLUSHER    FLUTIL2    FLUTIL2B   FLUTIL3    GETDATA    GETFILE
 GETFILEO   LABELOFF   LABELON    LOGUTIL    MAGTEST    MOVEFILE
 OVERLORD   PEEKABOO   PFIND      PSCREEN    PURGE      PURGEA
 PURGEDIR   RECOVER2   RESTORE    ROLAIDS    SADUTIL    SDUPII
 SECTOR     SLPATCH    SOO        SPOOK      STAN       SYSINFO
 TAPECOPY   TAPESCAN   TAPETEST   TAPEVALD   TAPLIS     TERMTYPE
 TUNER2     TUNER2B    TUNER3     TUNEROLD   WORKOUT    WORKOUT2
 WRKDISC

 ENTER NAME:
ENTER FUNCTION:
```

```
ENTER FUNCTION: PDSK 2
 ENTER ADDRESS: 0
 LDEV=   2, DRT=   4, UNIT=   1, TYPE=   0, SUBTYPE=   9
 SECTOR % 0
   0: 040000 000027 077746 002040 000000 002040 000011 017556
  10: 031460 030060 046510 033471 031065 052461 000000 000000
  20: 000000 000000 000000 000000 000000 000000 000000 000000
  30: 000000 000000 000000 000000 000000 000000 000000 000000
  40: 000000 000000 000000 000000 000000 000000 000000 000000
  50: 000000 000000 000000 000000 000000 000000 000000 000000
  60: 000000 000000 000000 000000 000000 000000 000000 000000
  70: 000000 000000 000000 000000 000000 000000 000000 000000
 100: 000000 000000 000000 000000 000000 000000 000000 000000
 110: 000000 000000 000000 000000 000000 000000 000000 000000
 120: 000000 000000 000000 000000 000000 000000 000000 000000
 130: 000000 000000 000000 000000 000000 000000 000000 000000
 140: 000000 000000 000000 000000 000000 000000 000000 000000
 150: 000000 000000 000000 000000 000000 000000 000000 000000
 160: 000000 000000 000000 000000 000000 000000 000000 000000
 170: 000000 000000 000000 000000 000000 000000 000000 000000
```

```
ENTER FUNCTION: EDIT
 >OUTM C
 >BASE 18
 >DISC 2
 >MODIFY %22,%42,3
  SECTOR % 44
    42: 000000:=0
    43: 000000:=0
    44: 000000:=
  WRITTEN
 >MODIFY %22,%42,23
  SECTOR % 44
    42: 000000:=
    43: 000000:=
    44: 000000:=
    45: 000000:=
    46: 000000:=/
 >
 ENTER FUNCTION:
```

DISKED2 (Disk Edit)



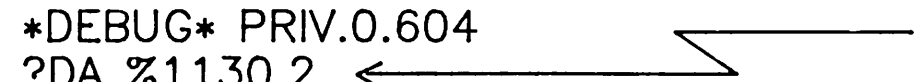
Reference:
System Utilities Manual
(30000-90044)

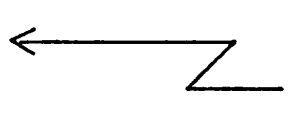
DISKED2 (Disk Edit)

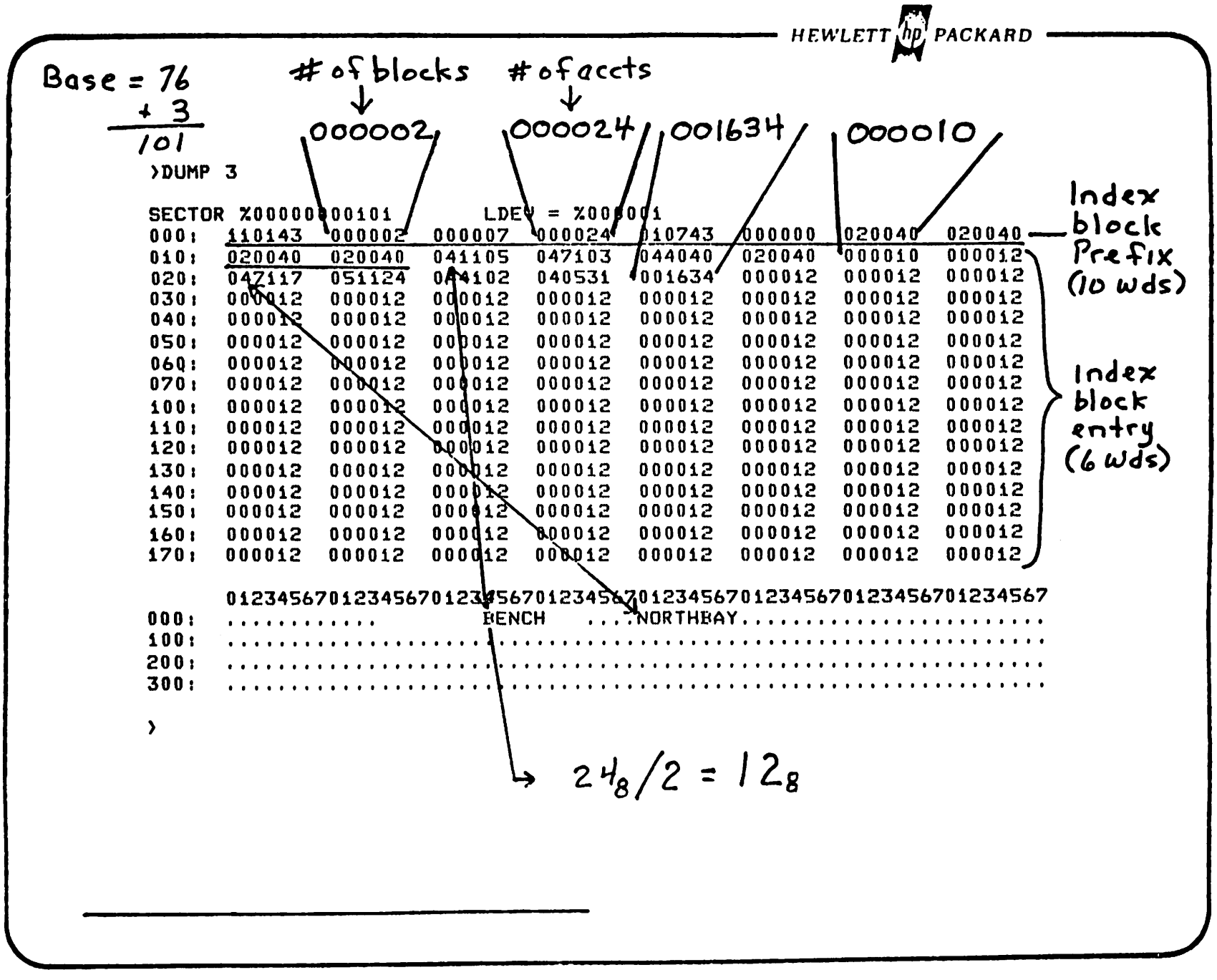
- Dump
- Modify

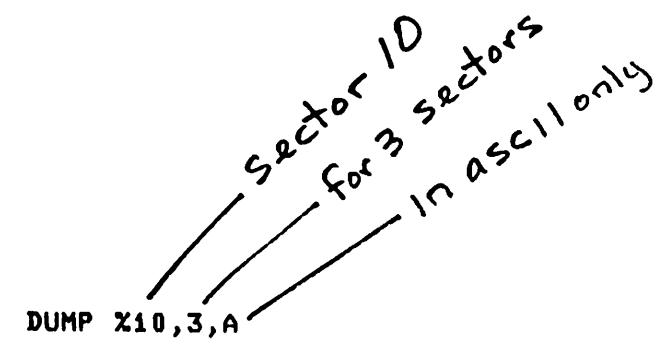
```
RUN DISKED2

DISKEDT2 B00.01 (C) HEWLETT-PACKARD CO., 1976
TYPE 'HELP' FOR INFO
>HELP

  BASE (<ABS SEC #>)
  DEBUG
  DISC <LOG DEV #>
  DUMP (<REL SEC #>) (,<# OF SEC>) (,<A = ASCII>)
  EXIT
  LIST (<DEVICE CLASS>) OR (<LOG DEV #>)
  MODIFY <SECTOR NUM, REL WD ADDR (,NUM WDS)>
  WIDTH
>
```

```
:RUN DISKED2

DISKED2 B00.01 (C) HEWLETT-PACKARD CO., 1976
TYPE HELP FOR INFO
>DEBUG

*DEBUG* PRIV.0.604
?DA %1130,2
A1130   000000 000076
?E
>WIDTH
NARROW FORMAT?
YES
>BASE %76
```

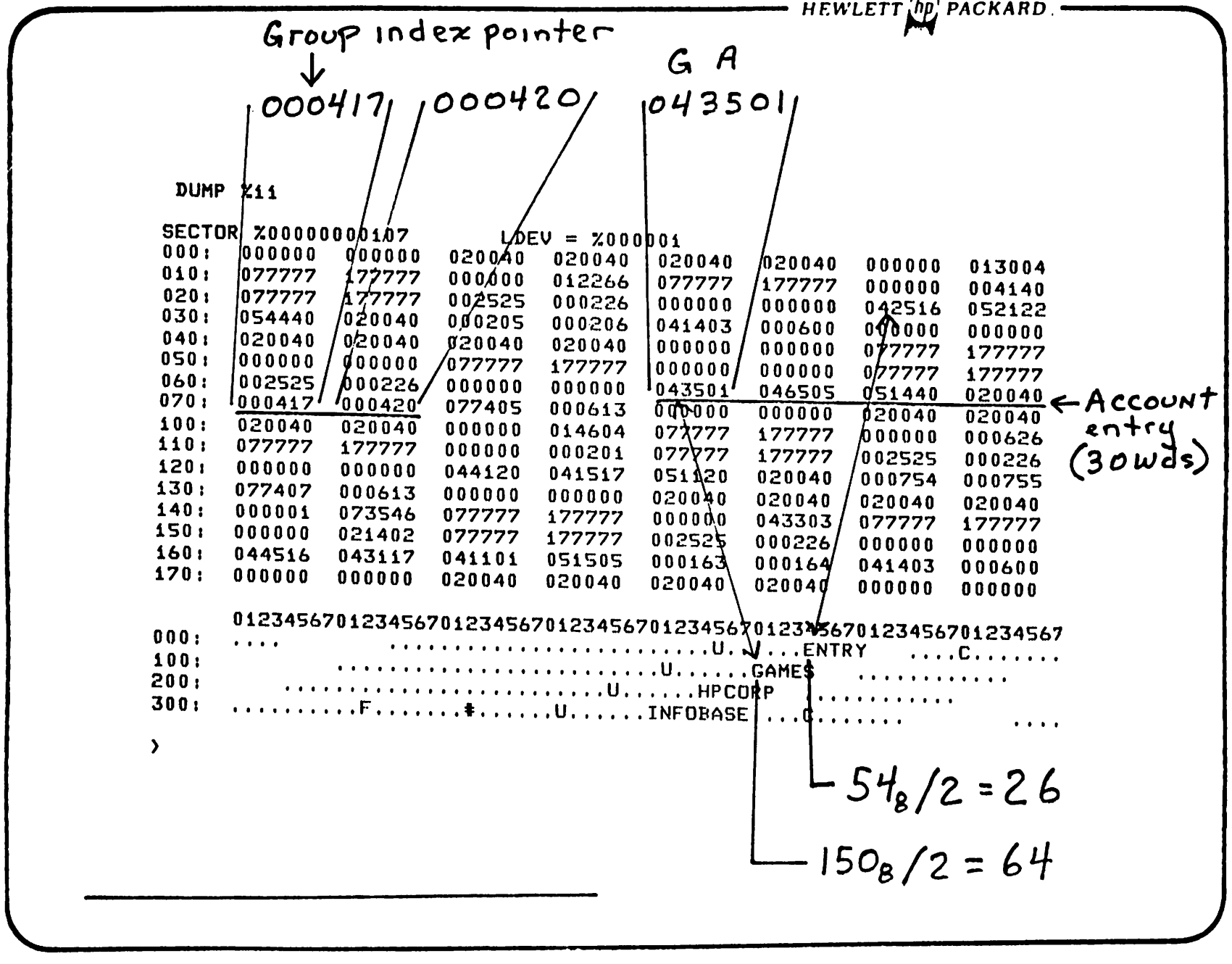





Base = 76
+ 3
101
# of blocks
# of accts
000002
000024
001634
000010
>DUMP 3
SECTOR %000000000101 LDEV = %000001
000: 110143 000002 000007 000024 010743 000000 020040 020040
010: 020040 020040 041105 047103 044040 020040 000010 000012
020: 047117 051124 041102 040531 001634 000012 000012 000012
030: 000012 000012 000012 000012 000012 000012 000012 000012
040: 000012 000012 000012 000012 000012 000012 000012 000012
050: 000012 000012 000012 000012 000012 000012 000012 000012
060: 000012 000012 000012 000012 000012 000012 000012 000012
070: 000012 000012 000012 000012 000012 000012 000012 000012
100: 000012 000012 000012 000012 000012 000012 000012 000012
110: 000012 000012 000012 000012 000012 000012 000012 000012
120: 000012 000012 000012 000012 000012 000012 000012 000012
130: 000012 000012 000012 000012 000012 000012 000012 000012
140: 000012 000012 000012 000012 000012 000012 000012 000012
150: 000012 000012 000012 000012 000012 000012 000012 000012
160: 000012 000012 000012 000012 000012 000012 000012 000012
170: 000012 000012 000012 000012 000012 000012 000012 000012
01234567012345670123456701234567012345670123456701234567012345670123456701234567
000: ..... BENCH ....NORTHBAY.....
100: ....
200: ....
300: ....
>
Index block Prefix (10 wds)
Index block entry (6 wds)
$24_8/2 = 12_8$




```
DUMP %10,3,A

SECTOR %00000000106        LDEV = %000001
000:  BENCH    ............          ..........................U......COGO
100:       ....C.......          ..........................U......CONVAID
200:  ....C.......           ..........................U......DREEACTG....
300:  C.......            ..........................U......EASTBAY ........

SECTOR %00000000107        LDEV = %000001
000:  ....          ..........................U......ENTRY    ....C.......
100:           ..........................U......GAMES    ............
200:       ..........................U......HPCORP   ............
300:  ..........F.......$......U......INFOBASE....C.......           ....

SECTOR %00000000110        LDEV = %000001
000:  ......................U......LIB      ....C.......          ........
100:  ...2.......!.....U.....................................................
200:  .......................................................................
300:  .......................................................................
```


Group index pointer
000417
000420
G A
043501
DUMP %11
SECTOR %00000000107 LDEV = %000001
000: 000000 000000 020040 020040 020040 020040 000000 013004
010: 077777 177777 000000 012266 077777 177777 000000 004140
020: 077777 177777 002525 000226 000000 000000 042516 052122
030: 054440 020040 000205 000206 041403 000600 000000 000000
040: 020040 020040 020040 020040 000000 000000 077777 177777
050: 000000 000000 077777 177777 000000 000000 077777 177777
060: 002525 000226 000000 000000 043501 046505 051440 020040
070: 000417 000420 077405 000613 000000 000000 020040 020040
100: 020040 020040 000000 014604 077777 177777 000000 000626
110: 077777 177777 000000 000201 077777 177777 002525 000226
120: 000000 000000 044120 041517 051120 020040 000754 000755
130: 077407 000613 000000 000000 020040 020040 020040 020040
140: 000001 073546 077777 177777 000000 043303 077777 177777
150: 000000 021402 077777 177777 002525 000226 000000 000000
160: 044516 043117 041101 051505 000163 000164 041403 000600
170: 000000 000000 020040 020040 020040 020040 000000 000000
Account entry (30wds)
000: ....U....ENTRY ....C.....
100: .....U.....GAME$ .....
200: .....U.....HPCORP .....
300: .....F.....$.....U.....INFOBASE ...C..... ....
54₈/2 = 26
150₈/2 = 64

000424

```
 DUMP %417

SECTOR %00000000515        LDEV = %000001
000:  104141  000001  000000  000002  005222  000003  043501  046505
010:  051440  020040  040504  053040  020040  020040  000424  000002  ←Index block entry (Group) (6wds)
020:  000002  000002  000002  000002  000002  000002  000002  000002
030:  000002  000002  000002  000002  000002  000002  000002  000002
040:  000002  000002  000002  000002  000002  000002  000002  000002
050:  000002  000002  000002  000002  000002  000002  000002  000002
060:  000002  000002  000002  000002  000002  000002  000002  000002
070:  000002  000002  000002  000002  000002  000002  000002  000002
100:  000002  000002  000002  000002  000002  000002  000002  000002
110:  000002  000002  000002  000002  000002  000002  000002  000002
120:  000002  000002  000002  000002  000002  000002  000002  000002
130:  000002  000002  000002  000002  000002  000002  000002  000002
140:  000002  000002  000002  000002  000002  000002  000002  000002
150:  000002  000002  000002  000002  000002  000002  000002  000002
160:  000002  000002  000002  000002  000002  000002  000002  000002
170:  000002  000002  000002  000002  000002  000002  000002  000002

      0123456701234567012345670123456701234567012345670123456701234567
000:  ............GAMES   ADV     ................................
100:  ................................................................
200:  ................................................................
300:  ................................................................
```

000421

```
>DUMP %424

SECTOR %00000000522        LDEV = %000001
000:  040504  053040  020040  020040  000706  020040  020040  020040
010:  020040  000000  002102  077777  177777  000000  000552  077777
020:  177777  000000  000107  077777  177777  002041  004102  000613
030:  000000  000724  020040  020040  020040  020040  020040  020040
040:  020040  020040  020040  020040  020040  020040  000000  000000
050:  000000  050125  041040  020040  020040  000421  020040  020040
060:  020040  020040  000000  012502  077777  177777  000000  000054
070:  077777  177777  000000  000072  077777  177777  020143  015006
100:  000713  000000  000423  020040  020040  020040  020040  020040
110:  020040  020040  020040  020040  020040  020040  020040  000000
120:  000000  000000  000000  000000  000000  000000  000000  000000
130:  000000  000000  000000  000000  000000  000000  000000  000000
140:  000000  000000  000000  000000  000000  000000  000000  000000
150:  000000  000000  000000  000000  000000  000000  000000  000000
160:  000000  000000  000000  000000  000000  000000  000000  000000
170:  000000  000000  000000  000000  000000  000000  000000  000000

      0123456701234567012345670123456701234567012345670123456701234567
000:  ADV     ..        ...B.............G.....!.B.....
100:              .....PUB     ..         ...B.....,.....!.... ...
200:  ......                              ..............................
300:  ........................................................................
```

Group entry (41 wds)

$122_8/2 = 51$

000514

```
 DUMP %421

SECTOR %00000000517        LDEV = %000001
000:  100142  000005  000000  000223  000142  000417  050125  041040
010:  020040  020040  040502  040507  042514  020040  000514  000040
020:  041522  040520  051440  020040  000516  000040  046501  051113
030:  042524  020040  000520  000040  047125  041117  040524  020040
040:  000522  000025  051122  042503  047522  042040  000524  000036
050:  000036  000036  000036  000036  000036  000036  000036  000036
060:  000036  000036  000036  000036  000036  000036  000036  000036
070:  000036  000036  000036  000036  000036  000036  000036  000036
100:  000036  000036  000036  000036  000036  000036  000036  000036
110:  000036  000036  000036  000036  000036  000036  000036  000036
120:  000036  000036  000036  000036  000036  000036  000036  000036
130:  000036  000036  000036  000036  000036  000036  000036  000036
140:  000036  000036  000036  000036  000036  000036  000036  000036
150:  000036  000036  000036  000036  000036  000036  000036  000036
160:  000036  000036  000036  000036  000036  000036  000036  000036
170:  000036  000036  000036  000036  000036  000036  000036  000036

      0123456701234567012345670123456701234567012345670123456701234567
000:  ............PUB      ABAGEL  .L. CRAPS    .N. MARKET   .P. NUBOAT
100:  .R..RRECORD .T.....................................................
200:  .....................................................................
300:  .....................................................................
```

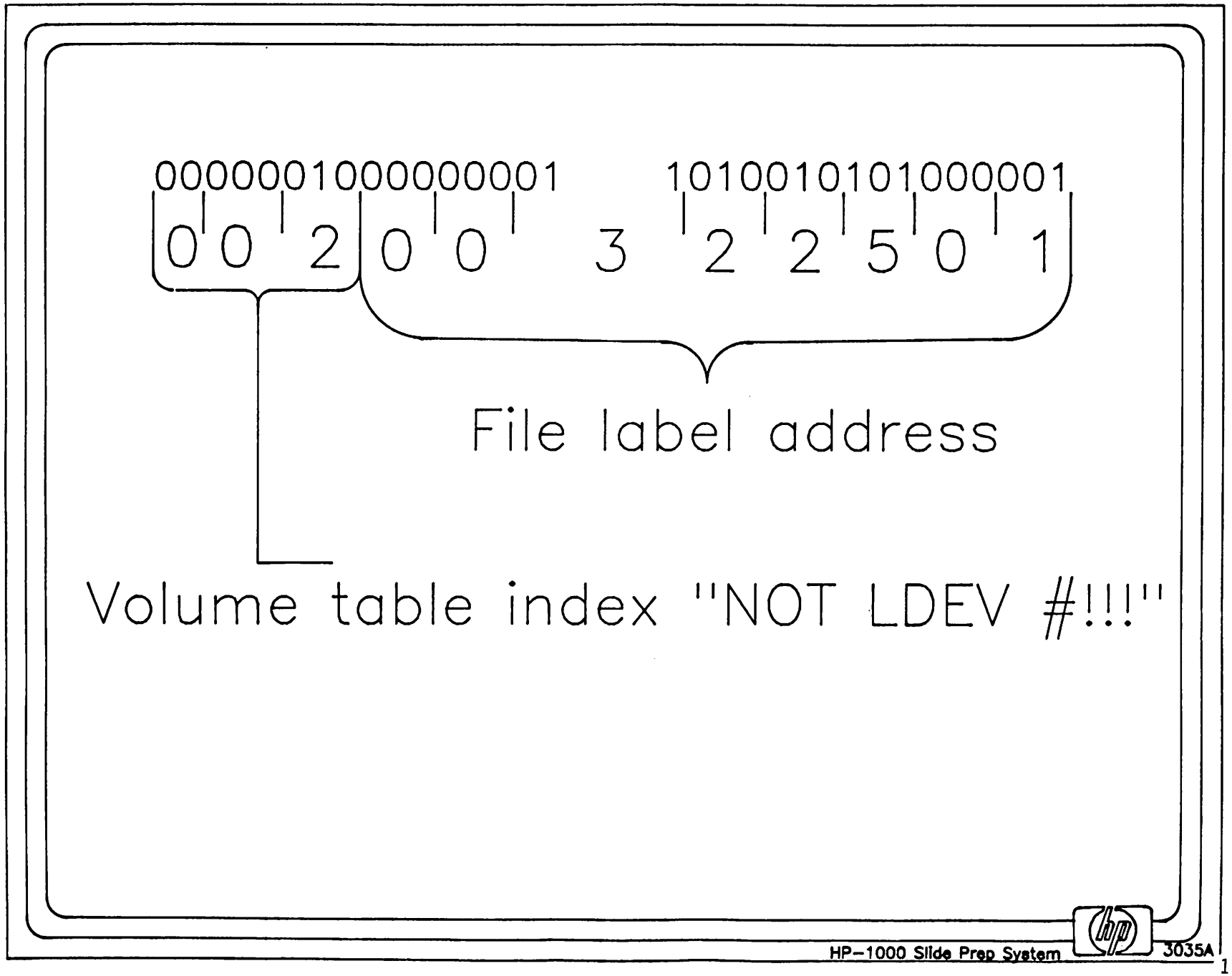
← Index block entry (files) (6 wds)

001001 122501

```
>DUMP %514

SECTOR %00000000612        LDEV = %000001
000:  040502  040507  042514  020040  000402  100210  040502  040523
010:  042440  020040  001001  121650  040504  053103  047515  020040
020:  000402  100225  040504  053105  047124  020040  001001  121666
030:  040504  053123  040526  042440  000402  100625  040515  040532
040:  042440  020040  001001  122461  040515  047522  052040  020040
050:  000402  101225  040516  044515  040514  020040  001001  122501
060:  040516  044515  040514  052040  000402  101257  040516  044515
070:  046061  020040  001001  122530  040516  044515  046062  020040
100:  000402  101351  041101  043505  046123  020040  001001  122704
110:  041101  052116  052515  020040  000402  101461  041105  040516
120:  051440  020040  001001  122720  041111  047523  044516  020040
130:  000402  101501  041111  051104  040531  020040  001001  122732
140:  041112  020040  020040  020040  000402  101533  041114  040503
150:  045512  040513  001001  122745  041114  045101  041513  020040
160:  000402  101557  041125  052124  047516  020040  001001  123003
170:  041501  047116  047516  020040  000402  101614  041501  053105

      0123456701234567012345670123456701234567012345670123456701234567
000:  ABAGEL  ....ABASE   ....ADVCOM  ....ADVENT  ....ADVSAVE ....AMAZ
100:  E   ...1AMORT   ....ANIMAL  ...AANIMALT ....ANIML1  ...XANIML2
200:  ....BAGELS  ....BATNUM  ...1BEANS   ....BIOSIN  ...ABIRDAY  ....
300:  BJ      ...[BLACKJAK....BLJACK   ....BUTTON  ....CANNON  ....CAVE

>
```

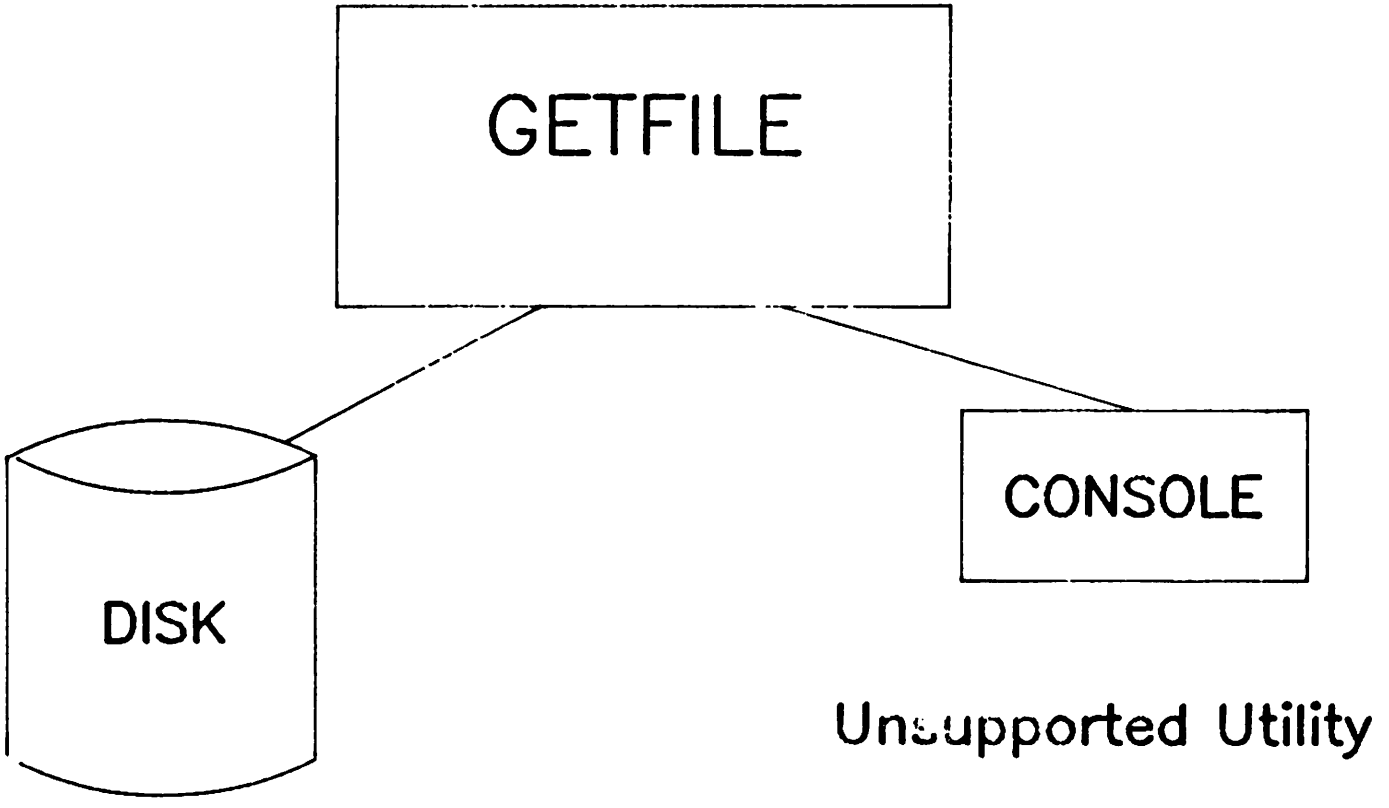
File entry (6 wds)

$124_8/2 =$


0000001000000001 1010010101000001
0 0 2 0 0 3 2 2 5 0 1
File label address
Volume table index "NOT LDEV #!!!"
HP-1000 Slide Prep System
3035A

```
 DISC 2
>BASE 0
>DUMP %322501

SECTOR %00000322501        LDEV = %000002
000:  040516  044515  040514  020040  050125  041040  020040  020040
010:  043501  046505  051440  020040  050114  040531  042522  020040
020:  020040  020040  020040  020040  020202  004040  000001  117017
030:  117073  117073  002005  000000  004400  000000  000000  000026
040:  000000  000000  017655  017512  002001  177400  000200  000400
050:  000027  000027  000000  000026  001001  122501  000000  000000
060:  000000  000000  000000  000000  000000  000000  000000  000000
070:  000000  000000  000000  000000  000000  000000  000000  000000
100:  000000  000000  000000  000000  000000  000000  000000  000000
110:  000000  000000  000000  000000  000000  000000  000000  000000
120:  000000  000000  000000  000000  000000  000000  000000  000000
130:  000000  000000  000000  000000  000000  000000  000000  000000
140:  000000  000000  000000  000000  000000  000000  000000  000000
150:  000000  000000  000000  000000  000000  000000  000000  000000
160:  000000  000000  000000  000000  000000  000000  000000  000000
170:  000000  000000  000000  000000  042111  051503  020000  047111

      0123456701234567012345670123456701234567012345670123456701234567
000:  ANIMAL  PUB     GAMES   PLAYER                  .. .....;.;.........
100:  .......J.....................A.....................................
200:  ........................................................................
300:  ........................................................................
```

GETFILE



Unsupported Utility

```
:RESTORE *T;@.UTIL.SUPP
  FILES RESTORED = 13

  FILES NOT RESTORED = 45

    FILE     .GROUP    .ACCOUNT FILESET      REASON

    FLUSHER .UTIL      .SUPP         1     CATASTROPHIC ERROR
    FLUTIL3 .UTIL      .SUPP         1     CATASTROPHIC ERROR
    FSECTOR .UTIL      .SUPP         1     CATASTROPHIC ERROR
    FSPENT  .UTIL      .SUPP         1     CATASTROPHIC ERROR
    GET3    .UTIL      .SUPP         1     CATASTROPHIC ERROR
    GETDATA .UTIL      .SUPP         1     CATASTROPHIC ERROR
            .UTIL      .SUPP         1     CATASTROPHIC ERROR
                       .SUPP         1     CATASTROPHIC ERROR
                                     1     CATASTROPHIC ERROR
                                           CATASTROPHIC ERROR
    SPOOK                                        PHIC ERROR
    SYSINFO .UTIL
    TAPECOPY.UTIL      .SUPP
    TAPESCAN.UTIL      .SUPP         1
    TAPETEST.UTIL      .SUPP         1     CATASTROPHIC
    TAPEVALD.UTIL      .SUPP         1     CATASTROPHIC
    TAPLIS  .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TAPLIS4 .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TERMTYPE.UTIL      .SUPP         1     CATASTROPHIC ERROR
    TLP1010 .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TUNER2  .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TUNER3  .UTIL      .SUPP         1     CATASTROPHIC ERROR


TAPE PARITY ERROR  (FSERR 38)
ERROR ACCESSING TAPE - RESTORE STOPPED.  (CIERR 1026)
```

GETFILE

DESCRIPTION:

Retreives files from: store tapes that are unrecognizable by the system.

CONSIDERATIONS:

it is unsupported

puts files where you are

GETFILE (cont.)

OPERATION:

```
RUN GETFILE.PUB.UTILS

GETFILE-VERSION 04/17/78

GETFILE WILL RESTORE A FILE FROM A SYSDUMP OR STORE
TAPE INTO LOGON GROUP AND ACCOUNT REGARDLESS OF
THE PREVIOUS CREATOR,GROUP AND ACCOUNT.
TO SPECIFY THE FILES TO BE RESTORED YOU MAY ENTER THE
FILE NAMES SEPERATED BY COMMAS,USE @ TO DENOTE ALL
FILES IN A GROUP OR ONE RANGE OF FILES.(A RANGE OF
FILES IS SPECIFIED BY ENTERING THE FIRST FILE,
A SLASH,THEN LAST FILE. IE. FIRSTFILE/LASTFILE).
AN & IS USED AFTER A FILE NAME  TO CONTINUE FILE
LIST ON NEXT LINE.AN @ MAY BE USED IN RESPONSE
TO GROUP  AND ACCOUNT REQUEST.
THE TAPE MAY BE A CONTINUATION REEL.

NAME OF FILE(S) TO BE RESTORED?
```

```
TAPE INTO LOGON GROUP AND ACCOUNT REGARDLESS OF
THE PREVIOUS CREATOR,GROUP AND ACCOUNT.
TO SPECIFY THE FILES TO BE RESTORED YOU MAY ENTER THE
FILE NAMES SEPERATED BY COMMAS,USE @ TO DENOTE ALL
FILES IN A GROUP OR ONE RANGE OF FILES.(A RANGE OF
FILES IS SPECIFIED BY ENTERING THE FIRST FILE,
A SLASH,THEN LAST FILE. IE. FIRSTFILE/LASTFILE).
AN & IS USED AFTER A FILE NAME  TO CONTINUE FILE
LIST ON NEXT LINE.AN @ MAY BE USED IN RESPONSE
TO GROUP  AND ACCOUNT REQUEST.
THE TAPE MAY BE A CONTINUATION REEL.

NAME OF FILE(S) TO BE RESTORED?
@
UTIL
SUPP
N
N


MOUNT TAPE
?13:21/#S14/14/LDEV# FOR "TAPE" ON TAPE (NUM)?
=REPLY 14,7
FILE ERROR #0     WHILE SCANNING THE FILE
FLUSHER   UTIL       SUPP
DO YOU WISH TO CONTINUE? Y
SPOOK     UTIL       SUPP
THIS FILE IS EMPTY-SORRY

TAPETEST  IS A DUPLICATE FILE--DO YOU WISH TO PURGE OLD? YJ
54  FILE(S) RETRIEVED
NAME OF FILE(S) TO BE RESTORED?

THATS ALL FOLKS!


END OF PROGRAM
```

HEWLETT hp PACKARD

UTILITIES

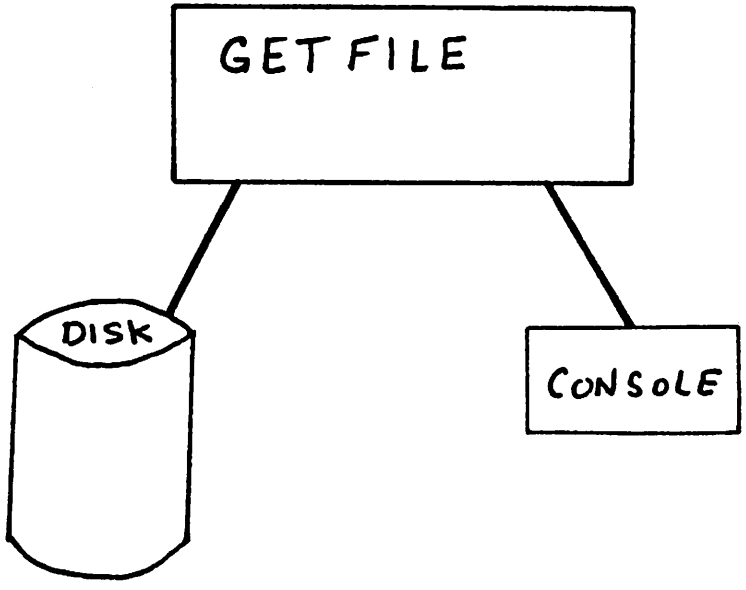
SUPPORTED

and

UNSUPPORTED

```
:RESTORE *T;@.UTIL.SUPP
  FILES RESTORED = 13

  FILES NOT RESTORED = 45

    FILE     .GROUP    .ACCOUNT FILESET     REASON

    FLUSHER .UTIL      .SUPP         1     CATASTROPHIC ERROR
    FLUTIL3 .UTIL      .SUPP         1     CATASTROPHIC ERROR
    FSECTOR .UTIL      .SUPP         1     CATASTROPHIC ERROR
    FSPENT  .UTIL      .SUPP         1     CATASTROPHIC ERROR
    GET3    .UTIL      .SUPP         1     CATASTROPHIC ERROR
    GETDATA .UTIL      .SUPP         1     CATASTROPHIC ERROR
            .UTIL      .SUPP         1     CATASTROPHIC ERROR
                       .SUPP         1     CATASTROPHIC ERROR
                                     1     CATASTROPHIC ERROR
                                           CATASTROPHIC ERROR
    SPOOK                                        PHIC ERROR
    SYSINFO .UTIL
    TAPECOPY.UTIL      .SUPP
    TAPESCAN.UTIL      .SUPP         1
    TAPETEST.UTIL      .SUPP         1     CATASTROPHIC
    TAPEVALD.UTIL      .SUPP         1     CATASTROPHIC
    TAPLIS  .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TAPLIS4 .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TERMTYPE.UTIL      .SUPP         1     CATASTROPHIC ERROR
    TLP1010 .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TUNER2  .UTIL      .SUPP         1     CATASTROPHIC ERROR
    TUNER3  .UTIL      .SUPP         1     CATASTROPHIC ERROR


TAPE PARITY ERROR  (FSERR 38)
ERROR ACCESSING TAPE - RESTORE STOPPED.  (CIERR 1026)
```

GETFILE



Unsupported Utility

GETFILE

DESCRIPTION:

Retreives files from: store tapes that are unrecognizable by the system.

CONSIDERATIONS:

it is unsupported

puts files where you are

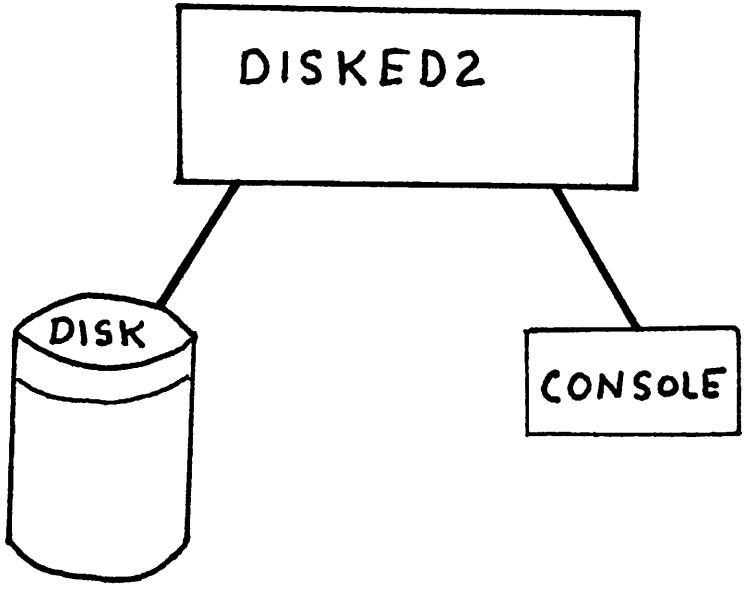
GETFILE (cont.)

OPERATION:

```
RUN GETFILE.PUB.UTILS

GETFILE-VERSION 04/17/78

GETFILE WILL RESTORE A FILE FROM A SYSDUMP OR STORE
TAPE INTO LOGON GROUP AND ACCOUNT REGARDLESS OF
THE PREVIOUS CREATOR,GROUP AND ACCOUNT.
TO SPECIFY THE FILES TO BE RESTORED YOU MAY ENTER THE
FILE NAMES SEPERATED BY COMMAS,USE @ TO DENOTE ALL
FILES IN A GROUP OR ONE RANGE OF FILES.(A RANGE OF
FILES IS SPECIFIED BY ENTERING THE FIRST FILE,
A SLASH,THEN LAST FILE. IE. FIRSTFILE/LASTFILE).
AN & IS USED AFTER A FILE NAME TO CONTINUE FILE
LIST ON NEXT LINE.AN @ MAY BE USED IN RESPONSE
TO GROUP AND ACCOUNT REQUEST.
THE TAPE MAY BE A CONTINUATION REEL.

NAME OF FILE(S) TO BE RESTORED?
```

```
TAPE INTO LOGON GROUP AND ACCOUNT REGARDLESS OF
THE PREVIOUS CREATOR,GROUP AND ACCOUNT.
TO SPECIFY THE FILES TO BE RESTORED YOU MAY ENTER THE
FILE NAMES SEPERATED BY COMMAS,USE @ TO DENOTE ALL
FILES IN A GROUP OR ONE RANGE OF FILES.(A RANGE OF
FILES IS SPECIFIED BY ENTERING THE FIRST FILE,
A SLASH,THEN LAST FILE. IE. FIRSTFILE/LASTFILE).
AN & IS USED AFTER A FILE NAME  TO CONTINUE FILE
LIST ON NEXT LINE.AN @ MAY BE USED IN RESPONSE
TO GROUP  AND ACCOUNT REQUEST.
THE TAPE MAY BE A CONTINUATION REEL.

NAME OF FILE(S) TO BE RESTORED?
@
UTIL
SUPP
N
N


MOUNT TAPE
?13:21/#S14/14/LDEV# FOR "TAPE" ON TAPE (NUM)?
=REPLY 14,7
FILE ERROR #0     WHILE SCANNING THE FILE
FLUSHER   UTIL       SUPP
DO YOU WISH TO CONTINUE? Y
SPOOK     UTIL       SUPP
THIS FILE IS EMPTY-SORRY

TAPETEST  IS A DUPLICATE FILE--DO YOU WISH TO PURGE OLD? YD
54  FILE(S) RETRIEVED
NAME OF FILE(S) TO BE RESTORED?

THATS ALL FOLKS!


END OF PROGRAM
```

DISKED2 (Disk edit)



DISKED2

DESCRIPTION:

Allows you to on line display or modify disc.

CONSIDERATIONS:

Allows modifying where you don't want also % or no %

Reference:
System Utilities Manual
(30000-90044)

DISKED2

OPERATION:

```
 RUN DISKED2

DISKEDT2 B00.01 (C) HEWLETT-PACKARD CO., 1976
TYPE 'HELP' FOR INFO
>HELP

 BASE [<ABS SEC #>]
 DEBUG
 DISC <LOG DEV #>
 DUMP [<REL SEC #>] [,<# OF SEC>] [,<A = ASCII>]
 EXIT
 LIST [<DEVICE CLASS>] OR [<LOG DEV #>]
 MODIFY <SECTOR NUM, REL WD ADDR [,NUM WDS]>
 WIDTH

>
```

```
:RUN DISKED2

DISKEDT2 B00.01 (C) HEWLETT-PACKARD CO., 1976
TYPE 'HELP' FOR INFO
>DEBUG

*DEBUG* PRIV.0.604
?DA %1130,2
A1130   000000 000076
?E
>WIDTH
NARROW FORMAT?
YES
>BASE %76
```

```
>DUMP 3

SECTOR %00000000101        LDEV = %000001
000:  110143  000002  000007  000024  010743  000000  020040  020040
010:  020040  020040  041105  047103  044040  020040  000010  000012
020:  047117  051124  044102  040531  001634  000012  000012  000012
030:  000012  000012  000012  000012  000012  000012  000012  000012
040:  000012  000012  000012  000012  000012  000012  000012  000012
050:  000012  000012  000012  000012  000012  000012  000012  000012
060:  000012  000012  000012  000012  000012  000012  000012  000012
070:  000012  000012  000012  000012  000012  000012  000012  000012
100:  000012  000012  000012  000012  000012  000012  000012  000012
110:  000012  000012  000012  000012  000012  000012  000012  000012
120:  000012  000012  000012  000012  000012  000012  000012  000012
130:  000012  000012  000012  000012  000012  000012  000012  000012
140:  000012  000012  000012  000012  000012  000012  000012  000012
150:  000012  000012  000012  000012  000012  000012  000012  000012
160:  000012  000012  000012  000012  000012  000012  000012  000012
170:  000012  000012  000012  000012  000012  000012  000012  000012

      0123456701234567012345670123456701234567012345670123456701234567
000:  ............          BENCH    ....NORTHBAY.......................
100:  ................................................................
200:  ................................................................
300:  ................................................................

>
```

```
 DUMP %10,3,A

SECTOR %00000000106        LDEV = %000001
000:  BENCH   ............          ..........................U......COGO
100:       ....C.......          ..........................U......CONVAID
200:  ....C.......           ..........................U......DREEACTG....
300:  C.......          ..........................U......EASTBAY ........

SECTOR %00000000107        LDEV = %000001
000:  ....          ..........................U......ENTRY    ....C.......
100:           ..........................U......GAMES    ............
200:       ..........................U......HPCORP   ............
300:  ..........F.......*......U......INFOBASE....C.......          ....

SECTOR %00000000110        LDEV = %000001
000:  ....................U......LIB      ....C.......          ........
100:  ...2.......!.....U.....................................................
200:  .......................................................................
300:  .......................................................................
```

```
 DUMP %11

SECTOR %00000000107        LDEV = %000001
000:  000000  000000  020040  020040  020040  020040  000000  013004
010:  077777  177777  000000  012266  077777  177777  000000  004140
020:  077777  177777  002525  000226  000000  000000  042516  052122
030:  054440  020040  000205  000206  041403  000600  000000  000000
040:  020040  020040  020040  020040  000000  000000  077777  177777
050:  000000  000000  077777  177777  000000  000000  077777  177777
060:  002525  000226  000000  000000  043501  046505  051440  020040
070:  000417  000420  077405  000613  000000  000000  020040  020040
100:  020040  020040  000000  014604  077777  177777  000000  000626
110:  077777  177777  000000  000201  077777  177777  002525  000226
120:  000000  000000  044120  041517  051120  020040  000754  000755
130:  077407  000613  000000  000000  020040  020040  020040  020040
140:  000001  073546  077777  177777  000000  043303  077777  177777
150:  000000  021402  077777  177777  002525  000226  000000  000000
160:  044516  043117  041101  051505  000163  000164  041403  000600
170:  000000  000000  020040  020040  020040  020040  000000  000000

      0123456701234567012345670123456701234567012345670123456701234567
000:  ....          ..........................U......ENTRY    ....C.......
100:            ..........................U......GAMES    ............
200:       ..........................U......HPCORP   ............
300:  ..........F.......#......U......INFOBASE....C.......           ....

>
```

```
 DUMP %417

SECTOR %00000000515        LDEV = %000001
000:  104141  000001  000000  000002  005222  000003  043501  046505
010:  051440  020040  040504  053040  020040  020040  000424  000002
020:  000002  000002  000002  000002  000002  000002  000002  000002
030:  000002  000002  000002  000002  000002  000002  000002  000002
040:  000002  000002  000002  000002  000002  000002  000002  000002
050:  000002  000002  000002  000002  000002  000002  000002  000002
060:  000002  000002  000002  000002  000002  000002  000002  000002
070:  000002  000002  000002  000002  000002  000002  000002  000002
100:  000002  000002  000002  000002  000002  000002  000002  000002
110:  000002  000002  000002  000002  000002  000002  000002  000002
120:  000002  000002  000002  000002  000002  000002  000002  000002
130:  000002  000002  000002  000002  000002  000002  000002  000002
140:  000002  000002  000002  000002  000002  000002  000002  000002
150:  000002  000002  000002  000002  000002  000002  000002  000002
160:  000002  000002  000002  000002  000002  000002  000002  000002
170:  000002  000002  000002  000002  000002  000002  000002  000002

      0123456701234567012345670123456701234567012345670123456701234567
000:  ............GAMES   ADV     ................................
100:  ................................................................
200:  ................................................................
300:  ................................................................
```

```
>DUMP %424

SECTOR %00000000522        LDEV = %000001
000:  040504  053040  020040  020040  000706  020040  020040  020040
010:  020040  000000  002102  077777  177777  000000  000552  077777
020:  177777  000000  000107  077777  177777  002041  004102  000613
030:  000000  000724  020040  020040  020040  020040  020040  020040
040:  020040  020040  020040  020040  020040  020040  000000  000000
050:  000000  050125  041040  020040  020040  000421  020040  020040
060:  020040  020040  000000  012502  077777  177777  000000  000054
070:  077777  177777  000000  000072  077777  177777  020143  015006
100:  000713  000000  000423  020040  020040  020040  020040  020040
110:  020040  020040  020040  020040  020040  020040  020040  000000
120:  000000  000000  000000  000000  000000  000000  000000  000000
130:  000000  000000  000000  000000  000000  000000  000000  000000
140:  000000  000000  000000  000000  000000  000000  000000  000000
150:  000000  000000  000000  000000  000000  000000  000000  000000
160:  000000  000000  000000  000000  000000  000000  000000  000000
170:  000000  000000  000000  000000  000000  000000  000000  000000

      0123456701234567012345670123456701234567012345670123456701234567
000:  ADV     ..        ...B.............G.....!.B......
100:            ......PUB     ..        ...B.......,........!.... ...
200:  ......                              ................................
300:  ........................................................................
```

```
 DUMP %421

SECTOR %00000000517        LDEV = %000001
000:  100142  000005  000000  000223  000142  000417  050125  041040
010:  020040  020040  040502  040507  042514  020040  000514  000040
020:  041522  040520  051440  020040  000516  000040  046501  051113
030:  042524  020040  000520  000040  047125  041117  040524  020040
040:  000522  000025  051122  042503  047522  042040  000524  000036
050:  000036  000036  000036  000036  000036  000036  000036  000036
060:  000036  000036  000036  000036  000036  000036  000036  000036
070:  000036  000036  000036  000036  000036  000036  000036  000036
100:  000036  000036  000036  000036  000036  000036  000036  000036
110:  000036  000036  000036  000036  000036  000036  000036  000036
120:  000036  000036  000036  000036  000036  000036  000036  000036
130:  000036  000036  000036  000036  000036  000036  000036  000036
140:  000036  000036  000036  000036  000036  000036  000036  000036
150:  000036  000036  000036  000036  000036  000036  000036  000036
160:  000036  000036  000036  000036  000036  000036  000036  000036
170:  000036  000036  000036  000036  000036  000036  000036  000036

      0123456701234567012345670123456701234567012345670123456701234567
000:  ............PUB     ABAGEL  .L. CRAPS   .N. MARKET  .P. NUBOAT
100:  .R..RRECORD .T.....................................................
200:  .....................................................................
300:  .....................................................................
```

```
>DUMP %514

SECTOR %00000000612        LDEV = %000001
000:   040502  040507  042514  020040  000402  100210  040502  040523
010:   042440  020040  001001  121650  040504  053103  047515  020040
020:   000402  100225  040504  053105  047124  020040  001001  121666
030:   040504  053123  040526  042440  000402  100625  040515  040532
040:   042440  020040  001001  122461  040515  047522  052040  020040
050:   000402  101225  040516  044515  040514  020040  001001  122501
060:   040516  044515  040514  052040  000402  101257  040516  044515
070:   046061  020040  001001  122530  040516  044515  046062  020040
100:   000402  101351  041101  043505  046123  020040  001001  122704
110:   041101  052116  052515  020040  000402  101461  041105  040516
120:   051440  020040  001001  122720  041111  047523  044516  020040
130:   000402  101501  041111  051104  040531  020040  001001  122732
140:   041112  020040  020040  020040  000402  101533  041114  040503
150:   045512  040513  001001  122745  041114  045101  041513  020040
160:   000402  101557  041125  052124  047516  020040  001001  123003
170:   041501  047116  047516  020040  000402  101614  041501  053105

       0123456701234567012345670123456701234567012345670123456701234567
000:   ABAGEL  ....ABASE   ....ADVCOM  ....ADVENT  ....ADVSAVE ....AMAZ
100:   E    ...1AMORT   ....ANIMAL  ...AANIMALT ....ANIML1  ...XANIML2
200:   ....BAGELS  ....BATNUM  ...1BEANS   ....BIOSIN  ...ABIRDAY  ....
300:   BJ       ...[BLACKJAK....BLJACK  ....BUTTON  ....CANNON  ....CAVE

>
```

```
 DISC 2
>BASE 0
>DUMP %322501

SECTOR %00000322501        LDEV = %000002
000:   040516  044515  040514  020040  050125  041040  020040  020040
010:   043501  046505  051440  020040  050114  040531  042522  020040
020:   020040  020040  020040  020040  020202  004040  000001  117017
030:   117073  117073  002005  000000  004400  000000  000000  000026
040:   000000  000000  017655  017512  002001  177400  000200  000400
050:   000027  000027  000000  000026  001001  122501  000000  000000
060:   000000  000000  000000  000000  000000  000000  000000  000000
070:   000000  000000  000000  000000  000000  000000  000000  000000
100:   000000  000000  000000  000000  000000  000000  000000  000000
110:   000000  000000  000000  000000  000000  000000  000000  000000
120:   000000  000000  000000  000000  000000  000000  000000  000000
130:   000000  000000  000000  000000  000000  000000  000000  000000
140:   000000  000000  000000  000000  000000  000000  000000  000000
150:   000000  000000  000000  000000  000000  000000  000000  000000
160:   000000  000000  000000  000000  000000  000000  000000  000000
170:   000000  000000  000000  000000  042111  051503  020000  047111

       0123456701234567012345670123456701234567012345670123456701234567
000:   ANIMAL  PUB     GAMES   PLAYER
100:   .......J.....................A.....  .. .....;.;.............
200:   ........................................................................
300:   ........................................................................
                                                              .DISC .NI
```

DIRPUR3

DESCRIPTION:

Purges "garbage" file entries from directory.

CONSIDERATIONS:

it is unsupported

makes no checks just purges it.

does not give back the disc space

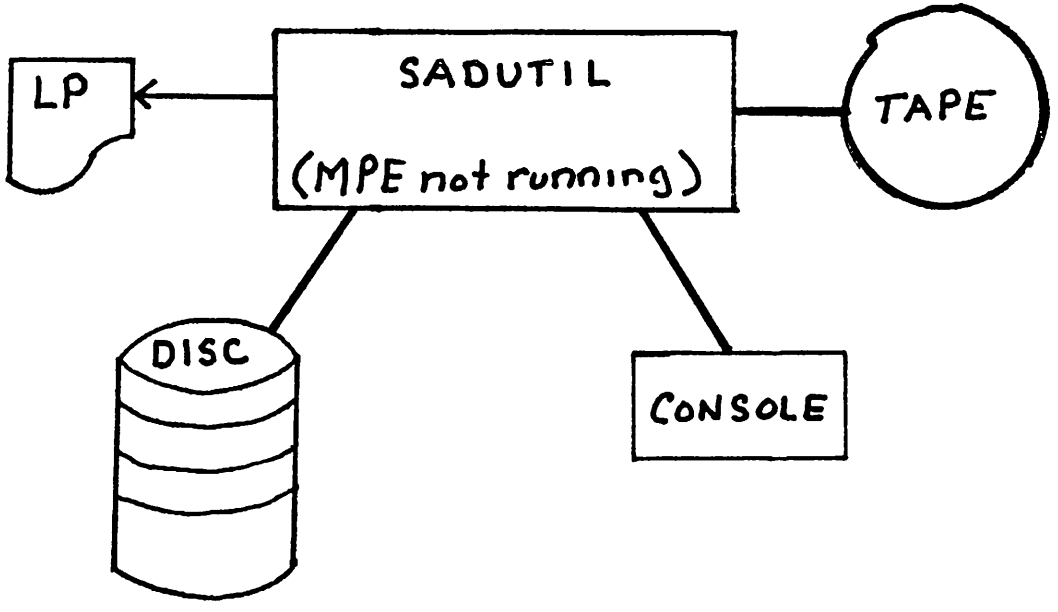
do not use unless normal purge fails.

DIRPUR3 (cont.)

OPERATION:

```
:PURGE BADBAD
I/O ERROR ON FILE LABEL  (FSERR 47)
UNABLE TO PURGE FILE BADBAD.UTIL.SUPP. (CIERR 384)
:RUN DIRPUR3

INPUT FILE NAME BADBAD
INPUT GROUP NAME UTIL
INPUT ACCOUNT NAME SUPP
FILE WAS DELETED!

INPUT FILE NAME

END OF PROGRAM
:
```

SADUTIL (stand alone disc utility)



SADUTIL

DESCRIPTION:

Recovers files from a disc drive when all else fails

CONSIDERATIONS:

Sadutilg is unsupported

It is standalone

When you need it you should have created it.

Reference:
System Utilities Manual
(30000-90044)

SADUTIL (cont)

OPERATION:

```
DISC UTILITY A01.01 (C) HEWLETT-PACKARD CO., 1976
DEVICE CONFIGURATION CHANGES? Y
PRINTER DRT?
LIST LOGICAL DEVICES? Y
 LDEV   DRT   UNIT   TYPE   SUBTYPE
 ----   ---   ----   ----   -------

DISC CONFIGURATION CHANGES? Y
LOGICAL DEVICE? 1
DRT? 4
UNIT? 0
TYPE? 0
SUBTYPE? 8
LOGICAL DEVICE? 2
DRT? 4
UNIT? 1
TYPE? 0
SUBTYPE? 9
LOGICAL DEVICE?
LIST LOGICAL DEVICES? Y
 LDEV   DRT   UNIT   TYPE   SUBTYPE
 ----   ---   ----   ----   -------

   1      4     0      0        8
   2      4     1      0        9
ENTER FUNCTION: SAVE
 MOUNT TAPE WITH WRITE RING ON MAG. TAPE UNIT 0 OF DRT 6
 FILE NAME (OR LDEV#,%SECTOR ADDRESS)? ANIMAL.PUB.GAMES
 DATE? 1/1/11
 ANIMAL   .PUB      .GAMES      1   %216306
```

```
FILE NAME (OR LDEV#,%SECTOR ADDRESS)? 1,%231577
FXXX     .ACKERMAN.EASTBAY  - CONTENTS OF LABEL
RETRIEVE THIS FILE (Y/N)? Y
FXXX     .ACKERMAN.EASTBAY    1     231577
FILE NAME (OR LDEV#,%SECTOR ADDRESS)? 2,%130073
OTHELLO  .ACKERMAN.EASTBAY  - CONTENTS OF LABEL
RETRIEVE THIS FILE (Y/N)? Y
OTHELLO  .ACKERMAN.EASTBAY    2     130073
FILE NAME (OR LDEV#,%SECTOR ADDRESS)?
```

```
ENTER FUNCTION: PFIL
 ENTER NAME: @.CANFIELD.STAFF

 ACCOUNT = STAFF      GROUP = CANFIELD

 A          EDCAT      INFO       LIST       SFAIL      SYSFAIL
 TAPEC

 ENTER NAME: @.PUB.UTILS

 ACCOUNT = UTILS      GROUP = PUB

 BADFILE    BLDACCT    BUILDINT   CALC       CFCOPY     CLEAN
 CLKPROG    DEATH      DECOMP     DELMNT     DIAGCPU    DIRPUR3
 DIRPURG2   DISCFIL2   DISCFL3    DISKEDT2   DPAN3      FCOPY
 FILEDISP   FILELIST   FIND       FINDB      FINDF      FINDFIL2
 FLUSHER    FLUTIL2    FLUTIL2B   FLUTIL3    GETDATA    GETFILE
 GETFILEO   LABELOFF   LABELON    LOGUTIL    MAGTEST    MOVEFILE
 OVERLORD   PEEKABOO   PFIND      PSCREEN    PURGE      PURGEA
 PURGEDIR   RECOVER2   RESTORE    ROLAIDS    SADUTIL    SDUPII
 SECTOR     SLPATCH    SOO        SPOOK      STAN       SYSINFO
 TAPECOPY   TAPESCAN   TAPETEST   TAPEVALD   TAPLIS     TERMTYPE
 TUNER2     TUNER2B    TUNER3     TUNEROLD   WORKOUT    WORKOUT2
 WRKDISC

 ENTER NAME:
ENTER FUNCTION:
```

```
ENTER FUNCTION: PDSK 2
 ENTER ADDRESS: 0
 LDEV=   2, DRT=   4, UNIT=   1, TYPE=   0, SUBTYPE=   9
 SECTOR % 0
   0: 040000 000027 077746 002040 000000 002040 000011 017556
  10: 031460 030060 046510 033471 031065 052461 000000 000000
  20: 000000 000000 000000 000000 000000 000000 000000 000000
  30: 000000 000000 000000 000000 000000 000000 000000 000000
  40: 000000 000000 000000 000000 000000 000000 000000 000000
  50: 000000 000000 000000 000000 000000 000000 000000 000000
  60: 000000 000000 000000 000000 000000 000000 000000 000000
  70: 000000 000000 000000 000000 000000 000000 000000 000000
 100: 000000 000000 000000 000000 000000 000000 000000 000000
 110: 000000 000000 000000 000000 000000 000000 000000 000000
 120: 000000 000000 000000 000000 000000 000000 000000 000000
 130: 000000 000000 000000 000000 000000 000000 000000 000000
 140: 000000 000000 000000 000000 000000 000000 000000 000000
 150: 000000 000000 000000 000000 000000 000000 000000 000000
 160: 000000 000000 000000 000000 000000 000000 000000 000000
 170: 000000 000000 000000 000000 000000 000000 000000 000000
```

```
ENTER FUNCTION: EDIT
 >OUTM C
 >BASE 18
 >DISC 2
 >MODIFY %22,%42,3
  SECTOR % 44
   42: 000000:=0
   43: 000000:=0
   44: 000000:=
  WRITTEN
 >MODIFY %22,%42,23
  SECTOR % 44
   42: 000000:=
   43: 000000:=
   44: 000000:=
   45: 000000:=
   46: 000000:=/
 >
ENTER FUNCTION:
```

RECOVER2

DESCRIPTION:

Allows you to recreate disc files that have been copied to tape by SADUTIL

CONSIDERATIONS:

you must know lockwords

Then restore ; KEEP

Reference:
System Utilities Manual
(30000 - 90044)

RECOVER2 (cont.)

```
:HELLO MANAGER.SYS
HP3000 / MPE III B.01.SE.  MON, FEB 11, 1980,  3:05 PM
:RUN RECOVER2

RECOVER2 B00.00 (C) HEWLETT-PACKARD CO., 1976
WISH TO KEEP EXISTING COPIES OF FILES (Y/N)?N
BADBAD  .PUB      .UTILS     1  00101426273
BADBAD1 .PUB      .UTILS     1  00101012112
BLDACCT1.PUB      .UTILS     1  00100250457
DIRPUR3 .PUB      .UTILS     1  00100364643
FLUSHER .PUB      .UTILS     1  00100364653
FLUTIL3 .PUB      .UTILS     1  00101012312
GETFILE .PUB      .UTILS     1  00101425103
LIST    .PUB      .UTILS     1  00100375310
LIST1   .PUB      .UTILS     1  00100364561
LIST2   .PUB      .UTILS     1  00100402105
LISTCRET.PUB      .UTILS     1  00100400330
LOGUTIL .PUB      .UTILS     1  00101426473
MAGTEST .PUB      .UTILS     1  00101012427
MOVE    .PUB      .UTILS     1  00100401404
MOVEFILE.PUB      .UTILS     1  00101013435
PSCREEN .PUB      .UTILS     1  00100343016
SADUTILG.PUB      .UTILS     1  00101427273
SDUPII  .PUB      .UTILS     1  00101013515
LOCKWORD: SECTOR.PUB.UTILS?

SECTOR  .PUB      .UTILS     1  00100375376
SYSINFO .PUB      .UTILS     1  00101016506
TAPECOPY.PUB      .UTILS     1  00100400341
TAPESCAN.PUB      .UTILS     1  00101066327
TAPETEST.PUB      .UTILS     1  00101017005
TUNER3  .PUB      .UTILS     1  00100752566
IS THERE ANOTHER RECOVERY TAPE (Y/N)? N

END OF PROGRAM
```

SDUPII

DESCRIPTION:

Creates standalone tapes

CONSIDERATIONS:

when you need it you should have used it.

SDUPII

```
:RUN SDUPII

3000 DIAGNOSTIC UTILITY PROGRAM(SDUP)C4174.01.05
 (C) COPYRIGHT HEWLETT-PACKARD COMPANY 1976



DO YOU WANT INSTRUCTIONS?
ANSWER 'YES' OR 'NO'


Y
THE DIAGNOSTIC UTILITY PROGRAM(SDUP30) IS A PROGRAM
THAT CONVERTS DIAGNOSTIC PROGRAM FILES TO A COLD LOADABLE TAPE
THIS TAPE WILL BE USED TO COLD LOAD STAND-ALONE DIAGNOSTICS.
THERE ARE 2 TYPES OF STAND-ALONE DIAGNOSTICS

TYPE 1 IS A CPU DIAGNOSTIC WHICH HAS ONLY ONE SEGMENT AND
USES A SIMPLIFIED LOADER


TYPE 2 IS A STAND-ALONE DIAGNOSTIC WHICH MAY HAVE MORE
THAN ONE SEGMENT AND WILL BE LOADED WITH A RELOCATING LOADER.
THIS TYPE DIAGNOSTIC MAY ALSO HAVE DIALOGUE TO THE SYSTEM CONSOLE.


THE PROGRAM WILL REQUEST DIAGNOSTIC TYPE
REPLY '1' FOR CPU OR '2' FOR STANDALONE
THE PROGRAM WILL REQUEST THE NAME OF THE PROGRAM FILE
REPLY WITH THE NAME OF THE PROGRAM FILE
TYPE ANY CHARACTER TO CONTINUE
```

```
K


IF YOU WANT TO USE THE PRECONFIGURATION OPTIONS
TYPE A ';C' AFTER THE PROGRAM NAME
 A '/' TERMINATES THE PROGRAM INPUT PHASE


INPUT DIAGNOSTIC TYPE
2
PROGRAM NAME?
SADUTILG.UTIL.SUPP
PROGRAM NAME?
//
INPUT DRT OF THE LINE PRINTER
A CARRIAGE RETURN ASSUMES NO LINE PRINTER

MOUNT TAPE ON TAPE UNIT

TAPE REQUFST HAS BEEN ISSUED
OPERATOR MUST NOW REPLY TO REQUEST


01  SADUTILG.UTIL.SUPP

LOGICAL SEG  PHYSICAL SEG   PB
    000005     000003     010000
    000000     000004     023661
    000001     000005     031202
    000002     000006     035647
    000003     000007     044664
    000004     000010     051041
    000006     000011     051716


END OF PROGRAM
```

SECTOR

DESCRIPTION:

Will convert logical sector address to Cyl., Head, Sector for any HP supported disc.

CONSIDERATIONS:

It is unsupported

```
:LISTF SECTOR,-1
F  =  SECTOR
051505 041524 047522 020040 000405 047245                    SECTOR....N.
051505 041524 047522 020040 052524 044514 020040 020040 SECTOR..UTIL....
051525 050120 020040 020040 052105 051524 020040 020040 SUPP....TEST....
020040 020040 020040 020040 020202 004040 000001 117005 ................
120044 120044 002005 000000 004400 000000 000000 000013 ................
000000 000000 005432 020326 002001 177400 000200 000400 ................
000014 000014 000000 000013 000405 047245 000000 000000 ..........N.....
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 006440 007006 120044 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 042111 051503 020000 000000 ........DISC....
```

SECTOR (cont)

OPERATION:

```
:RUN SECTOR

SECTOR-VERSION 04/27/78

THIS PRCGRAM CONVERTS SECTOR ADDRESS TO CYL,HEAD,SECTOR

DISK      TYPE  SUBYTYPE
2660        1   1,2,3
7900        0   1,2
2888        0   3
7905        0   4,5,6,7
7920        0   8
7925        0   9

TYPE? 0
SUBTYPE? 9
ENTER PAR1 5
ENTER PAR2 47245
CYL=603   HEAD=7   SECTOR=37
```

```
ENTER PAR1
DISK      TYPE  SUBYTYPE
2660        1   1,2,3
7900        0   1,2
2888        0   3
7905        0   4,5,6,7
7920        0   8
7925        0   9

TYPE?
```

```
END OF PROGRAM
```

TAPESCAN

DESCRIPTION:

Reads a mag tape and reports any parity errors found. It will also list the number of records in each file and the length of each record.

CONSIDERATION

It is unsupported

TAPESCAN (CONT)

OPERATION

```
:RUN TAPESCAN

 MAG TAPE ANALYZER <3.0>


 ENTER THE LISTING DEVICE ( * FOR $STDLIST) LP
 WHAT DEVICE IS YOUR TAPE ON? 7
 DO YOU WANT ALL RECORD LENGTHS LISTED?
Y
 DOUBLE END OF FILE ENCOUNTERED
 CONTINUE?
Y
 PARITY ERROR IN RECORD 1
 DOUBLE END OF FILE ENCOUNTERED
 CONTINUE?
N

END OF PROGRAM
```

```
 MAG TAPE ANALYZER <3.0>

 TAPE DENSITY 1600 BPI

 RECNUM         RECORD LENGTH IN WORD

END OF FILE  1.............0 RECORDS WITH       0 PARITYS

 RECNUM         RECORD LENGTH IN WORD

END OF FILE  2.............0 RECORDS WITH       0 PARITYS
 DOUBLE END OF FILE ENCOUNTERED

 RECNUM         RECORD LENGTH IN WORD

     1:         40
END OF FILE  3.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=40
                      NUMBER=1          LENGTH=40



     1:    PARITY     1664
END OF FILE  18............2 RECORDS WITH       1 PARITYS
 SMALLEST RECORD      NUMBER=2          LENGTH=1664
 LONGEST RECORD       NUMBER=2          LENGTH=1664

 RECNUM         RECORD LENGTH IN WORD

     1:       1024
END OF FILE  19............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=1024
 LONGEST RECORD       NUMBER=1          LENGTH=1024
```

```
 MAG TAPE ANALYZER <3.0>


 TAPE DENSITY 1600 BPI
END OF FILE  1.............0 RECORDS WITH       0 PARITYS
END OF FILE  2.............0 RECORDS WITH       0 PARITYS
 DOUBLE END OF FILE ENCOUNTERED
END OF FILE  3.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=40
 LONGEST RECORD       NUMBER=1          LENGTH=40
END OF FILE  4.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=684
 LONGEST RECORD       NUMBER=1          LENGTH=684
END OF FILE  5.............2 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=2          LENGTH=2304
 LONGEST RECORD       NUMBER=1          LENGTH=4096
END OF FILE  6.............2 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=2          LENGTH=640
 LONGEST RECORD       NUMBER=1          LENGTH=4096
END OF FILE  7.............3 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=3          LENGTH=2560
 LONGEST RECORD       NUMBER=1          LENGTH=4096
END OF FILE  8.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=2688
 LONGEST RECORD       NUMBER=1          LENGTH=2688
END OF FILE  9.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=1280
 LONGEST RECORD       NUMBER=1
END OF FILE  10.........
```

```
 LONGEST
END OF FILE
 SMALLEST RECORD
 LONGEST RECORD       NU..
END OF FILE  15.............5
 SMALLEST RECORD      NUMBER=5
 LONGEST RECORD       NUMBER=1          LE
END OF FILE  16.............2 RECORDS WITH
 SMALLEST RECORD      NUMBER=2          LENGTH=2686
 LONGEST RECORD       NUMBER=1          LENGTH=4096
END OF FILE  17.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=896
 LONGEST RECORD       NUMBER=1          LENGTH=896
END OF FILE  18.............2 RECORDS WITH       1 PARITYS
 SMALLEST RECORD      NUMBER=2          LENGTH=1664
          RECORD      NUMBER=2          LENGTH=1664
                     .........1 RECORDS WITH       0 PARITYS
                          R=1           LENGTH=1024
                                        LENGTH=1024
                                                  0 PARITYS
```

```
 LONGEST RECORD       NUMBER=1          LENGTH=1792
END OF FILE  61.............2 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=2          LENGTH=1152
 LONGEST RECORD       NUMBER=1          LENGTH=4096
END OF FILE  62.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=40
 LONGEST RECORD       NUMBER=1          LENGTH=40
END OF FILE  63.............0 RECORDS WITH       0 PARITYS
 DOUBLE END OF FILE ENCOUNTERED
```

```
 RECNUM        RECORD LENGTH IN WORD

     1:      4096    1152
END OF FILE  61.............2 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=2          LENGTH=1152
 LONGEST RECORD       NUMBER=1          LENGTH=4096

 RECNUM        RECORD LENGTH IN WORD

     1:        40
END OF FILE  62.............1 RECORDS WITH       0 PARITYS
 SMALLEST RECORD      NUMBER=1          LENGTH=40
 LONGEST RECORD       NUMBER=1          LENGTH=40

 RECNUM        RECORD LENGTH IN WORD

END OF FILE  63.............0 RECORDS WITH       0 PARITYS
 DOUBLE END OF FILE ENCOUNTERED
```

SLEUTH

DESCRIPTION:

Can do any thing to any device

CONSIDERATIONS:

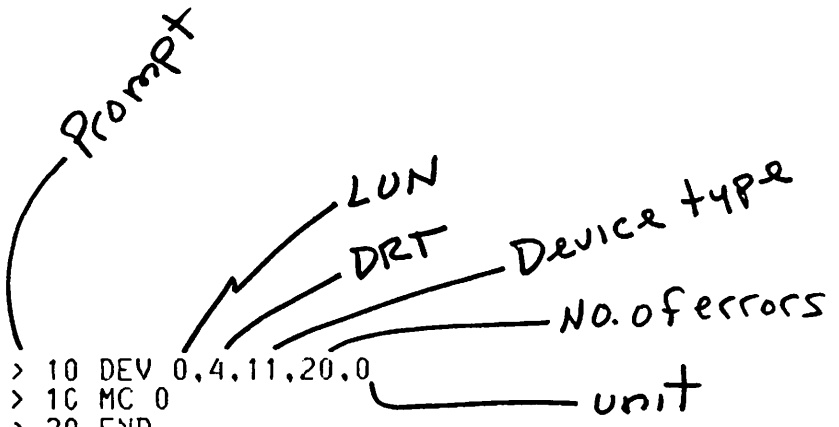
IT is off line

Can do anything to any device

SLEUTH (cont)

OPERATION:

```
D1 SLEUTH 3000 (HP D411A.01.04)
(C) COPYRIGHT HEWLETT-PACKARD COMPANY 1978.
> 10 DUMP T
TYPE CODE       CORRESPONDING DEVICE
     1          SIO MUX CHANNEL
     2          CARD READER
     3          SYNC SINGLE LINE
     4          HARDWIRE SERIAL
     5          2607,2613,2617,2618 LINE PRINTER
     6          ASYNC MUX CHANNEL
     7          TERMINAL CONTROLLER
     8          SYSTEM CLOCK
     9          SEL MAINT CARD
    10          READER/PUNCH
    11          7925 DISC
    12          7920 DISC
    13          7900 DISC
    14          ISS DISC
    15          7905 DISC
    16          256 TRACK F.H.DISC
    17          512 TRACK F.H.DISC
    18          800 CPI MAG TAPE
    19          1600 CPI MAG TAPE
    20          PAPER TAPE READER
    21          PAPER TAPE PUNCH
    22          PLOTTER
    23          2610,2614 LINE PRINTER
    24          SPECIAL INTERFACE
    25          UNIVERSAL INTERFACE
```




```
> 10 DEV 0,4,11,20,0
> 10 MC 0
> 20 END
> 30 RUN
> 30 DUMP P
  10 MC          0
  20 END
> 30 10 RC 0
> 10 AUTO
> 30 DUMP P
  10 RC          0
  20 END
> 30 RUN
> 30 20 LOOP 10,200
> 1 AUTO
> 30 END
> 40 RUN
```

Loop to Line 10 200 times

```
> 40 DUMP P
  10 RC          0
  20 LOOP       10.     200.       0.       0
  30 END
> 40 EP S
> 10 DUMP F
> 10 DUMP L
LUN#   DEV#   TYPE   ERR#   UNIT#  BAUD
   0      4     11     20      0      0
   0      0      0      0      0      0
   0      0      0      0      0      0
   0      0      0      0      0      0
   0      0      0      0      0      0
```

```
> 10 DB EE,20.%125252
> 10 DUMP B.EE
100060: 125252 125252 125252 125252 125252 125252 125252 125252
100070: 125252 125252 125252 125252 125252 125252 125252 125252
100100: 125252 125252 125252 125252
```

```
> 40 EP
> 10 DB AA,100,W
> 50(%15252),50(3030)
> 10 DUMP B,AA
 75162:   15252   15252   15252   15252   15252   15252   15252   15252
 75172:   15252   15252   15252   15252   15252   15252   15252   15252
 75202:   15252   15252   15252   15252   15252   15252   15252   15252
 75212:   15252   15252   15252   15252   15252   15252   15252   15252
 75222:   15252   15252   15252   15252   15252   15252   15252   15252
 75232:   15252   15252   15252   15252   15252   15252   15252   15252
 75242:   15252   15252    5726    5726    5726    5726    5726    5726
 75252:    5726    5726    5726    5726    5726    5726    5726    5726
 75262:    5726    5726    5726    5726    5726    5726    5726    5726
 75272:    5726    5726    5726    5726    5726    5726    5726    5726
 75302:    5726    5726    5726    5726    5726    5726    5726    5726
 75312:    5726    5726    5726    5726    5726    5726    5726    5726
 75322:    5726    5726    5726    5726
```

```
> 10 DB BB,120,S
> THIS IS A SAMPLE

> 10 DUMP B,BB
 75326:  52110  44523  20111  51440  40440  51501  46520  46105
 75336:  52110  44523  20111  51440  40440  51501  46520  46105
 75346:  52110  44523  20111  51440  40440  51501  46520  46105
 75356:  52110  44523  20111  51440  40440  51501  46520  46105
 75366:  52110  44523  20111  51440  40440  51501  46520  46105
 75376:  52110  44523  20111  51440  40440  51501  46520  46105
 75406:  52110  44523  20111  51440  40440  51501  46520  46105
 75416:  52110  44523  20111  51440  40440  51501  46520  46105
 75426:  52110  44523  20111  51440  40440  51501  46520  46105
 75436:  52110  44523  20111  51440  40440  51501  46520  46105
 75446:  52110  44523  20111  51440  40440  51501  46520  46105
 75456:  52110  44523  20111  51440  40440  51501  46520  46105
 75466:  52110  44523  20111  51440  40440  51501  46520  46105
 75476:  52110  44523  20111  51440  40440  51501  46520  46105
 75506:  52110  44523  20111  51440  40440  51501  46520  46105
```

```
> 10 DB CC.1000.R

> 10 DUMP B.CC
 75516: 137764 174505  65747  57161  41605   6655 120775 136527
 75526: 172013  60563  44611  14665 135015 166567  52113  27471
 75536: 162425  41607   6661 121005 136547 172053  60563  45011
 75546:  15265 136015 170567  56113  37471   2425 110315 115367
 75556: 127513 153763  24503 154451  25657 157001  32537 170541
 75566:  56037  37341   2145 107555 114067 124713 146363  11503
 75576: 126451 151657  20273 144031   4617 114701 126337 151433
 75606:  17623 142711   2357 110201 115137 127033 152623  22203
 75616: 147651  14257 134001 164537  46033  17331 142125   1007
 75626: 105261 107277 113333 123423 143603   4143 113551 124057
 75636: 144673   6323 120111 134757 166473  51723  27111 161465
 75646:  37707   3061 111405 117547 134053 164663  46303  20051
 75656: 143365   3507 112461 121677 140333 175423  67603  62651
 75666:  50765  25215 155675  30327 164121  44777  15241 135745
 75676: 170447  55653  36771   1225 105715 110367 115513 127763
 75706: 154503  25743 157151  33057 171401  57537  42541
 75716: 124555 146067  10713 125071 146717
 75726:  27173 161631  40217
 75736: 106011
```

```
> DB DD
> DB DD.250,B
> 100(%123),100(%321),50(%177)

> 10 DUMP B,DD
 77466:  51523  51523  51523  51523  51523  51523  51523  51523
 77476:  51523  51523  51523  51523  51523  51523  51523  51523
 77506:  51523  51523  51523  51523  51523  51523  51523  51523
 77516:  51523  51523  51523  51523  51523  51523  51523  51523
 77526:  51523  51523  51523  51523  51523  51523  51523  51523
 77536:  51523  51523  51523  51523  51523  51523  51523  51523
 77546:  51523  51523 150721 150721 150721 150721 150721 150721
 77556: 150721 150721 150721 150721 150721 150721 150721 150721
 77566: 150721 150721 150721 150721 150721 150721 150721 150721
 77576: 150721 150721 150721 150721 150721 150721 150721 150721
 77606: 150721 150721 150721 150721 150721 150721 150721 150721
 77616: 150721 150721 150721 150721 150721 150721 150721 150721
 77626: 150721 150721 150721 150721  77577  77577  77577  77577
 77636:  77577  77577  77577  77577  77577  77577  77577  77577
 77646:  77577  77577  77577  77577  77577  77577  77577  77577
 77656:  77577  77577  77577  77577  77577  51523  51523  51523
 77666:  51523  51523  51523  51523  51523  51523  51523  51523
 77676:  51523  51523  51523  51523  51523  51523  51523  51523
 77706:  51523  51523  51523  51523  51523  51523  51523  515
 77716:  51523  51523  51523  51523  51523  51523  51523  5152
```

```
> 10 DB AA,128,0
> 10 SEEK 0,0,0,0
> 20 RDI 0,AA
> 30 END
> 40 RUN
> 40 DUMP B
     DB          AA,     128
> 40 DUMP B.AA
 75162:   40000      27   77746    2040       0    2040      11   20352
 75172:   31460   30060   46510   33471   31065   52460       0       0
 75202:       0       0       0       0       0       0       0       0
 75212:       0       0       0       0       0       0       0       0
 75222:       0       0       0       0       0       0       0       0
 75232:       0       0       0       0       0       0       0       0
 75242:       0       0       0       0       0       0       0       0
 75252:       0       0       0       0       0       0       0       0
 75262:       0       0       0       0       0       0       0       0
 75272:       0       0       0       0       0       0       0       0
 75302:       0       0       0       0       0       0       0       0
 75312:       0       0       0       0       0       0       0       0
 75322:       0       0       0       0       0       0       0       0
 75332:       0       0       0       0       0       0       0       0
 75342:       0       0       0       0       0       0       0       0
 75352:       0       0       0       0       0       0       0       0
```

SEEK LUN, CYL, HEAD, SECTOR

```
D1 SLEUTH 3000 (HP D411A.01.04)
(C) COPYRIGHT HEWLETT-PACKARD COMPANY 1978.
> 10 DEV 0,4,11,20,0
> 10 DB AA,128,0
> 10 SEEK 0,0,0,1
> 20 RDI 0,AA
> 30 END
> 40 RUN
> 40 DUMP B,AA
 75162:       7   13472   22016   23256   23322   41222   62026   62632
 75172:       0       0       0       0       0       0       0       0
 75202:       0       0       0       0       0       0       0       0
 75212:       0       0       0       0       0       0       0       0
 75222:       0       0       0       0       0       0       0       0
 75232:       0       0       0       0       0       0       0       0
 75242:       0       0       0       0       0       0       0       0
 75252:       0       0       0       0       0       0       0       0
 75262:       0       0       0       0       0       0       0       0
 75272:       0       0       0       0       0       0       0       0
 75302:       0       0       0       0       0       0       0       0
 75312:       0       0       0       0       0       0       0       0
 75322:       0       0       0       0       0       0       0       0
 75332:       0       0       0       0       0       0       0       0
 75342:       0       0       0       0       0       0       0       0
 75352:       0       0       0       0       0       0   16247    1457
```

```
> 10 SEEK 0,0,1,1
> 1AUTO
> 40 DUMP P
  10 SEEK        0,       0,       1,       1
  20 RDI         C,      AA,      %2
  30 END
> 40 RUN
> 40 DUMP B,AA
 75162: 110143       4      17      27   10743       0   20040   20040
 75172:  20040   20040   40503   45505   51115   40516    2366       7
 75202:  44120   41517   51120   20040    1461       7   51505   51120
 75212:  44503   42440    1634       1   51517   52524   44102   40531
 75222:   1562      10      10      10      10      10      10      10
 75232:     10      10      10      10      10      10      10      10
 75242:     10      10      10      10      10      10      10      10
 75252:     10      10      10      10      10      10      10      10
 75262:     10      10      10      10      10      10      10      10
 75272:     10      10      10      10      10      10      10      10
 75302:     10      10      10      10      10      10      10      10
 75312:     10      10      10      10      10      10      10      10
 75322:     10      10      10      10      10      10      10      10
 75332:     10      10      10      10      10      10      10      10
 75342:     10      10      10      10      10      10      10      10
 75352:     10      10      10      10      10      10      10      10
```

```
> 10 EP
> 10 DEV 0,4,11,20,0
> 10 DB AA,128,0
> 10 PUT "CYL"
> 20 GET C
> 30 PUT "HEAD"
> 40 GET H
> 50 PUT "SECTOR"
> 60 GET S
> 70 SEEK 0,C,H,S
> 80 RDI 0,AA
> 90 END
>100 RUN
CYL
3
HEAD
4
SECTOR
12
>100 DUMP B,AA
 75162:       0       0       0       0       0       0       0       0
 75172:       0       0       0       0       0       0       0       0
 75202:       0       0       0       0       0       0       0       0
 75212:       0       0       0       0       0       0       0       0
 75222:       0       0       0       0       0       0       0       0
 75232:       0       0       0       0       0       0       0       0
 75242:       0       0       0       0       0       0       0       0
 75252:       0       0       0       0       0       0       0       0
 75262:       0       0       0       0       0       0       0       0
 75272:       0       0       0       0       0       0       0       0
 75302:       0       0       0       0       0       0       0       0
 75312:       0       0       0       0       0       0       0       0
 75322:       0       0       0       0       0       0       0       0
 75332:       0       0       0       0       0       0       0       0
 75342:       0       0       0       0       0       0       0       0
 75352:       0       0       0       0       0       0       0       0
```

```
>100 RUN
CYL
0
HEAD
1
SECTOR
1
>100 DUMP B.AA
 75162: 110143      4     17     27  10743      0  20040  20040
 75172:  20040  20040  40503  45505  51115  40516   2366      7
 75202:  44120  41517  51120  20040   1461      7  51505  51126
 75212:  44503  42440   1634      1  51517  52524  44102  40531
 75222:   1562     10     10     10     10     10     10     10
 75232:     10     10     10     10     10     10     10     10
 75242:     10     10     10     10     10     10     10     10
 75252:     10     10     10     10     10     10     10     10
 75262:     10     10     10     10     10     10     10     10
 75272:     10     10     10     10     10     10     10     10
 75302:     10     10     10     10     10     10     10     10
 75312:     10     10     10     10     10     10     10     10
 75322:     10     10     10     10     10     10     10     10
 75332:     10     10     10     10     10     10     10     10
 75342:     10     10     10     10     10     10     10     10
 75352:     10     10     10     10     10     10     10     10
```

```
>100 EP S
> 10 DUMP P
> 10 PUT "BEGIN"
> 20 GET C
> 30 PUT "END"
> 40 GET E
> 50 FOR I = C TO E
> 60 SEEK 0,C,0,0
> 70 RDI 0,AA
> 80 NEXT I
> 90 END
>100 RUN
BEGIN
2
END
30
>100 RUN
BEGIN
0
END
500
```

```
>100 DUMP P
  10 PUT   BEGIN
  20 GET       C
  30 PUT   END
  40 GET       E
  50 FOR        I     =       C     TO      E
  60 SEEK       0.      C.      0.      0
  70 RDI        C,     AA,     %2
  80 NEXT       I
  90 END
>100 50 LET C=C+1
> 80 IF C<E THEN 50
> 85 GOTO 10
> 45 IF E=0 THEN 90
> 1 AUTO
>100 DUMP P
  10 PUT   BEGIN
  20 GET       C
  30 PUT   END
  40 GET       E
  45 IF         E  =       0  THEN  90
  50 LET    C=C+1
  60 SEEK       0.      C.      0.      0
  70 RDI        0.     AA.     %2
  80 IF         C  <       E  THEN  50
  85 GOTO      10
  90 END
>100 RUN
BEGIN
0
END
100
BEGIN
2
END
4
BEGIN
32
END
0
>100
```

```
  10 PUT   BEGIN
  20 GET       C
  30 PUT   END
  40 GET       E
  45 IF         E  =       0  THEN  90
  50 LET    C=C+1
  60 SEEK      0,      C,      0,      0
  70 RDI       0,     AA,     %2
  80 IF        C  <       E  THEN  50
  85 GOTO     10
  90 END
>100 65 LIST C,8
> 66 LIST C,10
> 1 AUTO
>100 DUMP P
  10 PUT   BEGIN
  20 GET       C
  30 PUT   END
  40 GET       E
  45 IF         E  =       0  THEN  90
  50 LET    C=C+1
  60 SEEK      0,      C,      0,      0
  65 LIST      C,      8
  66 LIST      C,     10
  70 RDI       0,     AA,     %2
  80 IF        C  <       E  THEN  50
  85 GOTO     10
  90 END
 >100 RUN
```

```
BEGIN
1
END
4
      %2
       2
      %3
       3
      %4
       4
BEGIN
1
END
0
>100
```

```
> EP S
> 10 RS 0
> 20 LOOP 10,500
> 30 END
> 40 RUN
> 40 DUMP P
  10 RS          0
  20 LOOP       10,     500,      0,      0
  30 END
> 40 15 RS 0
> DUMP P
  10 RS          0
  15 RS          0
  20 LOOP       10,     500,      0,      0
  30 END
> REN
> DUMP P
  10 RS          0
  20 RS          0
  30 LOOP       10,     500,      0,      0
  40 END
> 5 RS 0
> DUMP P
   5 RS          0
  10 RS          0
  20 RS          0
  30 LOOP       10,     500,      0,      0
  40 END
> REN
> DUMP P
  10 RS          0
  20 RS          0
  30 RS          0
  40 LOOP       20,     500,      0,      0
  50 END
```

```
> 10 DEV 0.8.23,100.0
> 10 RP 0.132
> 20 END
> 30 RUN
> 30
```

MEMLOGAN / MEMTIMER

DESCRIPTION:

Allows detecting memory problems before they occur.

Reference
System Utilities Manual
(30000-90044)

MEMLOGAN / MEMTIMER

OPERATION:

```
:RUN MEMLOGAN.PUB.SYS

MEMLOGAN B00.00 (C) HEWLETT-PACKARD CO., 1978

LOGGING STARTED     - DATE:  1/ 7/79   TIME: 10:27
FIRST ERROR LOGGED  - DATE:  1/ 7/79   TIME: 10:27
LAST ERROR LOGGED   - DATE:  2/ 6/80   TIME: 13:04
LAST LOG UPDATE     - DATE:  2/ 6/80   TIME: 13:04
TIMING INTERVAL     -  1:00:00
```

ADDRESS			ERROR TYPE			
CONTROLLER	BOARD	ROW	TYPE	BIT	CHIP	ERROR COUNT
CONTROLLER A	0	0	DATA	3	U49	1
		0	MULTIPLE BIT ERROR			1
		1	DATA	2	U38	1
		1	MULTIPLE BIT ERROR			1
	1	1	DATA	2	U38	398

```
END OF PROGRAM
```

```
:RUN MEMLOGAN.PUB.SYS;PARM=1

MEMLOGAN B00.00 (C) HEWLETT-PACKARD CO., 1978

LOGGING STARTED     - DATE:  1/ 7/79   TIME: 10:27
FIRST ERROR LOGGED  - DATE:  1/ 7/79   TIME: 10:27
LAST ERROR LOGGED   - DATE:  2/ 6/80   TIME: 13:04
LAST LOG UPDATE     - DATE:  2/ 6/80   TIME: 13:04
TIMING INTERVAL     -  1:00:00
```

ADDRESS			ERROR TYPE			ERROR
CONTROLLER	BOARD	ROW	TYPE	BIT	CHIP	COUNT
CONTROLLER A	0	0	DATA	3	U49	1
		0	MULTIPLE BIT ERROR			1
		1	DATA	2	U38	1
		1	MULTIPLE BIT ERROR			1
	1	1	DATA	2	U38	398

```
END OF PROGRAM
:REDO
RUN MEMLOGAN.PUB.SYS;PARM=1


MEMLOGAN B00.00 (C) HEWLETT-PACKARD CO., 1978

* NO ENTRIES IN MEMLOG FILE *

END OF PROGRAM
```

```
:RUN MEMTIMER.PUB.SYS;PARM=2

MEMTIMER B00.00 (C) HEWLETT-PACKARD CO., 1976

END OF PROGRAM
:RUN MEMLOGAN.PUB.SYS

MEMLOGAN B00.00 (C) HEWLETT-PACKARD CO., 1978

LOGGING STARTED     - DATE:  2/ 6/80   TIME: 13:31
FIRST ERROR LOGGED  - DATE:  2/ 6/80   TIME: 13:31
LAST ERROR LOGGED   - DATE:  2/ 6/80   TIME: 13:31
LAST LOG UPDATE     - DATE:  2/ 6/80   TIME: 13:31
TIMING INTERVAL     -  0:00:02
```

ADDRESS			ERROR TYPE			ERROR COUNT
CONTROLLER	BOARD	ROW	TYPE	BIT	CHIP	
CONTROLLER A	1	1	DATA	2	U38	1

```
END OF PROGRAM
```

```
RUN MEMLOGAN.PUB.SYS


MEMLOGAN B00.00 (C) HEWLETT-PACKARD CO., 1978

LOGGING STARTED     - DATE:  2/ 6/80   TIME: 13:31
FIRST ERROR LOGGED  - DATE:  2/ 6/80   TIME: 13:31
LAST ERROR LOGGED   - DATE:  2/ 6/80   TIME: 13:32
LAST LOG UPDATE     - DATE:  2/ 6/80   TIME: 13:32
TIMING INTERVAL     -  0:00:02


-------------------------------------------------------------
I          ADDRESS                I      ERROR TYPE       I ERROR I
-------------------------------------------------------------
I CONTROLLER    I BOARD I ROW I  TYPE   BIT   CHIP    I COUNT I
-------------------------------------------------------------
I CONTROLLER A  I   1   I  1  I DATA     2   U38     I     2 I
-------------------------------------------------------------

END OF PROGRAM
```

```
:RUN MEMTIMER.PUB.SYS;PARM=3600

MEMTIMER B00.00 (C) HEWLETT-PACKARD CO., 1976

END OF PROGRAM



RUN MEMLOGAN.PUB.SYS


MEMLOGAN B00.00 (C) HEWLETT-PACKARD CO., 1978

LOGGING STARTED     - DATE:  2/ 6/80   TIME: 13:31
FIRST ERROR LOGGED  - DATE:  2/ 6/80   TIME: 13:31
LAST ERROR LOGGED   - DATE:  2/ 6/80   TIME: 13:35
LAST LOG UPDATE     - DATE:  2/ 6/80   TIME: 13:35
TIMING INTERVAL     -  1:00:00


-------------------------------------------------------------
I          ADDRESS                I      ERROR TYPE      I ERROR I
-------------------------------------------------------------
I CONTROLLER    I BOARD I ROW I  TYPE   BIT   CHIP    I COUNT I
-------------------------------------------------------------
I CONTROLLER A  I   1    I  1  I  DATA     2   U38     I     6 I
-------------------------------------------------------------

END OF PROGRAM
```

SYSINFO

DESCRIPTION:

Prints system configuration

CONSIDERATIONS:

It is unsupported

SYSINFO (cont)

OPERATION:

```
:RUN SYSINFO.PUB.UTILS

CONFIGURATION INFORMATION DISPLAY  V1.0  (9/78) WED, FEB  6, 1980, 11:54 AM

LISTING ON THE LINE PRINTER? Y

END OF PROGRAM
```

```
CONFIGURATION INFORMATION DISPLAY  V1.0  (9/78)     WED, FEB  6, 1980, 11:54 AM

  SYSTEM-ID = HP32002B.01.SE                  MEMORY SIZE (K WORDS)        256
                                              LINKED MEMORY (WORDS)     218848
                                              FIXED MEMORY  (WORDS)      43296

   HIGHEST DRT# 20                              HIGHEST LDEV# 81

 LOG  DRT  U  C  T SUB     TERM      REC   OUTPUT  MODE    DRIVER    DEVICE
 DEV   #   N  H  Y TYPE  TYPE SPEED WIDTH  DEV             NAME     CLASSES
  #        I  A  P
           T  N  E

   1   4   0  0  0   9                 128     0          *IOMDISC1  DISC
                                                                    SPOOL
   6  14   0  0 32   2                  66     0          S IOLPRT0  LP
                                                                    LP2619
   7   6   0  0 24   0                 128     0            IOTAPE0  TAPE
   8   6   1  0 24   0                 128     0            IOTAPE0  TAPE
   9   6   2  0 24   0                 128     0            IOTAPE0  TAPE
  10   6   3  0 24   0                 128    LP     JA     IOTAPE0  JTAPE
  20   7   0  0 16   0    10            40    20     JAID   IOTERM0  TERM
  21   7   1  0 16   0    10            40    21     JAID   IOTERM0  TERM
  22   7   2  0 16   0     4            40    22     JAID   IOTERM0  SHEA
                                                                    TERM
  23   7   3  0 16   0    10            40    23     JAID   IOTERM0  SPEC
                                                                    TERM
  24   7   4  0 16   0    10            40    24     JAID   IOTERM0  TERM
  25   7   5  0 16   1    10            40    25     JAID   IOTERM0  MOD300
  26   7   6  0 16   0    10            40    26     JAID   IOTERM0  MODEM
                                                                    TERM
```

27	7	7	0	16	0	10		40	27		JAID	IOTERM0	TERM
28	7	8	0	16	0	10		40	28		JAID	IOTERM0	TERM
29	7	9	0	16	0	10		40	29		JAID	IOTERM0	TERM
30	7	10	0	16	0	10		40	30		JAID	IOTERM0	TERM
31	7	11	0	16	1	10		40	31		JAID	IOTERM0	VADIC
32	7	12	0	16	1	10		40	32		JAID	IOTERM0	VADIC
33	7	13	0	16	1	10		40	33		JAID	IOTERM0	VADIC
34	7	14	0	16	1	10		40	34		JAID	IOTERM0	VADIC
35	7	15	0	16	1	10		40	35		JAID	IOTERM0	MOD1200
36	16	0	0	16	0			0	0			CSSBSLC0	SSLC1
64#	36	0	0	16	0	14		40	64			IOMPS0	MPSUP1
80#	36	11	0	16	0	14		40	80		JAID	IOMPTRM0	MPTERM
81#	36	12	0	16	0	14		40	81		JAID	IOMPTRM0	MPTERM

LEN	PM	PRT	LCL MOD	TC	RCV TMOUT	LCL TMOUT	CON TMOUT	MODE		TRANSMIT SPEED	TM	BUFFER SIZE	D C	DRIVER OPTIONS
36	C	1	1	1	20	60	900	0IA	C	1200	1	1000	Y	0

CLASS NAME	ACCESS TYPE	LOGICAL DEVICES
DISC	DA	1
JTAPE	I/O,NC	10
LP	OUT	6
LP2619	OUT	6
MOD1200	I/O,C	35
MOD300	I/O,C	25
MODEM	I/O,C	26
MPSUP1	I/O,C	64
MPTERM	I/O,C	80,81
SHEA	I/O,C	22
SPEC	I/O,C	23
SPOOL	DA	1
SSLC1	18	36
TAPE	I/O,NC	7,8,9
TERM	I/O,C	20,21,24,26,22,23,27,28,29,30
VADIC	I/O,C	31,32,33,34

TIME QUANTUM (MS)	500	STACK SIZE	800
TPRI =	152	MAX STACK SIZE	31232
CPRI =	160	MAX XDS SIZE	32767
DPRI =	180	MAX NUMBER XDS	20
JOB LIMIT	10	MAX CODE SEG SIZE	16384
SESSION LIMIT	16	MAX # CODE SEGS	63
SECS TO LOGON	120		
LOG REC SIZE	6	SPOOL EXTENT SIZE:	512
LOG FILE SIZE	512	MAX SPOOL SECTORS	128
LOG FILE #	66	MAX OPEN SPOOFLES	30

TYPE	EVENT	STATUS
1	LOGGING ENABLED	ON
2	JOB INITIATION	ON
3	JOB TERMINATION	ON
4	PROCESS TERMINATION	ON
5	FILE CLOSE	OFF
6	SYSTEM SHUTDOWN	OFF
7	POWER FAIL	OFF
8	SPOOLING	ON
9	LINE DISCONNECTION	OFF
10	LINE CLOSE	OFF
11	I/O ERROR	ON
12	VOLUME MOUNT	OFF
13	VOLUME SET MOUNT	OFF
14	TAPE LABELS	ON

#CST ENTRIES	192	TERM BUFFERS	96
#DST ENTRIES	1024	SYSTEM BUFFERS	12
#PCB ENTRIES	96	ICS	512
#IOQ ENTRIES	255	UCOP REQ QUE	40
#XCST ENTRIES	512	MAM TABLE SIZE	512
BREAKPOINT ENTRIES	64	TIMER REQ LIST	48
LOCAL RINS	48	VIRTUAL SECTORS	32000
GLOBAL RINS	0	DIRECTORY SECTORS	3500

TUNER3

DESCRIPTION:

Displays useage of system tables

CONSIDERATIONS:

It is unsupported

TUNER3 (cont)

OPERATION:

```
:RUN TUNER3

TUNER2-VERSION 01/19/79

THE MAX IN USE IS SINCE THE LAST XXXXSTART
 EXCEPT FOR SPOOL SPACE,VIRTUAL MEMORY,CST
 BLOCK TABLE,JOB PROCESS COUNT TABLE AND
 JOB/SESSION COUNT WHICH ARE MAX SINCE THIS
 PROGRAM STARTED.
THE MAX IN USE FOR VIRTUAL MEMORY AND XCST
 MAY REPRESENT ENTRIES CONSUMED BY FRAGMENTATION.
THE VALUE INSIDE ( ) REPRESENTS THE PRIMARY AREA.

AN * BY A TABLE NAME INDICATES THIS TABLE HAS
 REACHED A LEVEL OF CONCERN WHERE PERHAPS THE
 SIZE OF THE TABLE SHOULD BE INCREASED.
CONTINUOUS PRINTING OR PRINT ONLY ON CONTROL Y?
WHICH DO YOU WISH?(0=CONTINUOUS,1=CONTROL Y)>
```

```
TABLE     CONFIG.     MX USED     MX OBSRVD   CUR USED      MAX %   CUR %   SIZE/WDS
DST       1024         183         80          80          17.9     7.8      4
CST       192          132         119         119         68.8    62.0      4
XCST      512          140         19          19          27.3     3.7      4
PCB       96           45          18          18          46.9    18.8      16
IOQ       255 (249)    28          1           1           11.0      .4      11
TBUF      96  (84)     17          0           0           17.7    00.0      16
SBUF      12  (10)     10          0           0           83.3    00.0      129
TRL       48           7           4           4           14.6     8.3      4
MAM       512          36          0           0            7.0    00.0      5
ICS       512          181                                 35.4              1
CSTBK     28           9           9           9           32.1    32.1      1
WSTB1     31           12          12          12          38.7    38.7      16
WSTB2     48           4           4           4            8.3     8.3      16
JPCNT     26           2           2           2            7.7     7.7      1
VMEM      32000        1152        1148        1148         3.6     3.6     SECTORS
SPOOL     128000                   0           0           00.0    00.0     SECTORS
AVG SIZE OF  DST=903    LOW=903    HIGH=903    LARGEST=4100   SMALLEST=12
AVG SIZE OF  CST=2617   LOW=2617   HIGH=2617   LARGEST=7464   SMALLEST=20
AVG SIZE OF XCST=1615   LOW=1615   HIGH=1615   LARGEST=4096   SMALLEST=248
CURRENT # SESSIONS=2   # JOBS=0     MAX # OF SESSIONS=2   # JOBS=0
TIME (IN SECONDS) SINCE START=0      START: 12:21:39  CURRENT: 12:21:47
```

HEWLETT hp PACKARD

LISTLOG2

DESCRIPTION:

Prints in ASCII format the contents of any MPE Log files

Reference
System Utilities manual
(30000-90044)

LISTLOG2

OPERATION:

```
:RUN LISTLOG2.PUB.SYS

LISTLOG2 B01.00 (C) HEWLETT-PACKARD CO., 1979
ENTER FIRST AND LAST LOG FILE TO BE ANALYZED
FIRST?159
LAST?160
ENTER EVENTS TO BE PRINTED
TYPE NO.    EVENT
   0  LOG FAILURE
   1  SYSTEM UP
   2  JOB INITIATION
   3  JOB TERMINATION
   4  PROCESS TERMINATION
   5  FILE CLOSE
   6  SYSTEM SHUTDOWN
   7  POWER FAILURE
   8  SPOOLING LOG RECORD
   9  LINE DISCONNECTION
  10  LINE CLOSE
  11  I/O ERRORS
  12  VOLUME MOUNT/DISMOUNT
  13  VOLUME SET MOUNT/DIS.
  14  TAPE LABELS
  15  CONSOLE LOG
ENTER EVENT NUMBERS SEPARATED BY COMMAS
A CARRIAGE RETURN ASSUMES ALL EVENTS WILL BE EVALUATED
11
DO YOU WANT TO PURGE LOG FILES?NO
DO YOU WISH TO RUN AGAIN(Y OR N)?N

- END OF PROGRAM
```

```
                    * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                      DRT/UNIT-*-LDEV-*-STATUS-*-TYPE/-*-DVR/-*-XMISSION/-*-DRIVER/
                                                SUBTYPE  FUNCT    COUNT        DATA     A
9 :36:18:5  I/O   SYS    6  0       7       100552   24 0      1      1024         100001
                      ASDYWBCFMPLRT  G-*-TARGET/-*-TARGET/-*-PCB/-*-DVR/-*-DVR/  UENC
                                          DST#       ADDRESS   STAT   PAR1    PAR2-DVR C
                      0000100100000000     000121    002116    010421 000000    000014
                    * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                      DRT/UNIT-*-LDEV-*-STATUS-*-TYPE/-*-DVR/-*-XMISSION/-*-DRIVER/
                                                SUBTYPE  FUNCT    COUNT        DATA     A
9 :38:42:3  I/O   SYS    6  0       7       100552   24 0      1      1024         100001
                      ASDYWBCFMPLRT  G-*-TARGET/-*-TARGET/-*-PCB/-*-DVR/-*-DVR/  UENC
                                          DST#       ADDRESS   STAT   PAR1    PAR2-DVR C
                      0000100100000000     000121    002116    010421 000000    000014
                    * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                      DRT/UNIT-*-LDEV-*-STATUS-*-TYPE/-*-DVR/-*-XMISSION/-*-DRIVER/
                                                SUBTYPE  FUNCT    COUNT        DATA     A
9 :41:43:0  I/O   SYS    6  0       7       100512   24 0      0      0            100107
                      ASDYWBCFMPLRT  G-*-TARGET/-*-TARGET/-*-PCB/-*-DVR/-*-DVR/  UENC
                                          DST#       ADDRESS   STAT   PAR1    PAR2-DVR C
                      0000100100000000     100077    001232    006074 000000    000000
                    * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

LOGUTIL

DESCRIPTION:

Prints I/O error logs in a more readable form than LISTLOG2

CONSIDERATIONS:

It is unsupported

LOGUTIL (cont)

OPERATION:

```
:RUN LOGUTIL

LOGUTIL <6.4> WED, FEB  6, 1980, 12:52 PM
AUDIT, SNAP, OR ERRORLIST ? E
ENTER THE 'LIST' DEVICE (RETURN => $STDLIST) LP
ENTER STARTING,STOPPING LOGFILE NUMBERS ?159,160
IS INPUT FROM DISC OR TAPE ? DISC
LIST INDIVIDUAL ERRORS ? Y
ENTER Y/N FOR THE TYPES TO BE LISTED
TYPE 0  MOVING HEAD DISC          Y
TYPE 1  FIXED HEAD DISC
TYPE 8  CARD READER
TYPE 9  PAPER TAPE READER
TYPE 16 TERMINAL
TYPE 18 RJE-LINE
TYPE 19 HIGH SPEED SERIAL
TYPE 20 READER/PUNCH
TYPE 22 SYNC SNGL LINE CNTRL
TYPE 23 PROG CONTROLLER
TYPE 24 MAG TAPE                  Y
TYPE 32 LINE PRINTER
TYPE 33 CARD PUNCH
TYPE 34 PAPER TAPE PUNCH
TYPE 35 PLOTTER
TYPE 41 DS-3000

END OF PROGRAM
```

```
******TUE, FEB  5, 1980,  9:36 AM*****************************************MAG TAPE
LOGICAL DEVICE  7    DRT 6    UNIT 0  STATUS= %100552
FUNCTION IS WRITE
COMPLETION STATUS: <SUCESSFUL> WITH TAPE RETRY
MISC DATA =%100001, #P1=%000000 , #P2=%000014
NO TRANSFER IN PROGRESS
READY INTERRUPT
NOT READY INTERRUPT
CLEAR INTERFACE INTERRUPT
TRANSFER ERROR INTERRUPT

******TUE, FEB  5, 1980,  9:38 AM*****************************************MAG TAPE
LOGICAL DEVICE  7    DRT 6    UNIT 0  STATUS= %100552
FUNCTION IS WRITE
COMPLETION STATUS: <SUCESSFUL> WITH TAPE RETRY
MISC DATA =%100001, #P1=%000000 , #P2=%000014
NO TRANSFER IN PROGRESS
READY INTERRUPT
NOT READY INTERRUPT
CLEAR INTERFACE INTERRUPT
TRANSFER ERROR INTERRUPT

******TUE, FEB  5, 1980,  9:41 AM*****************************************MAG TAPE
LOGICAL DEVICE  7    DRT 6    UNIT 0  STATUS= %100512
FUNCTION IS READ
COMPLETION STATUS: <IRRECOVERABLE ERROR> TAPE PARITY ERROR
MISC DATA =%100107, #P1=%000000 , #P2=%000000
NO TRANSFER IN PROGRESS
READY INTERRUPT
CLEAR INTERFACE INTERRUPT
TRANSFER ERROR INTERRUPT
```

```
-------------------------
! SUMMARY OF I/O ERRORS  !
-------------------------


**************************************************************************MAG TAPE
LOGICAL DEVICE  7    DRT 6    UNIT 0
HAD    3 READ AND  116 WRITE ERRORS.  TOTAL ERRORS =119
THERE WERE  2    I/O REQUEST ABORTED EXTERNALLY
THERE WERE  117  NO TRANSFER IN PROGRESS
THERE WERE  2    COMMAND SENT 3000 -> DEVICE
THERE WERE  2    LINE READY INTERRUPT
THERE WERE  117  READY INTERRUPT
THERE WERE  114  NOT READY INTERRUPT
THERE WERE  115  CLEAR INTERFACE INTERRUPT
THERE WERE  115  TRANSFER ERROR INTERRUPT
THERE WERE  2    READY

**************************************************************************MAG TAPE
LOGICAL DEVICE  8    DRT 6    UNIT 1
HAD    8 READ AND   18 WRITE ERRORS.  TOTAL ERRORS =27
THERE WERE  2    I/O REQUEST ABORTED EXTERNALLY
THERE WERE  1    SYSTEM BUFFER USED
THERE WERE  2    NO TRANSFER IN PROGRESS
THERE WERE  25   BYTE SENT 3000 -> DEVICE
THERE WERE  20   READY INTERRUPT
THERE WERE  18   NOT READY INTERRUPT
THERE WERE  22   CLEAR INTERFACE INTERRUPT
THERE WERE  1    I/O SYSTEM INTERRUPT
THERE WERE  24   TRANSFER ERROR INTERRUPT
THERE WERE  1    READY
THERE WERE  2    WATCHDOG TIMER INTERRUPT

**************************************************************************TERMINAL
LOGICAL DEVICE  32   DRT 7    UNIT 12
HAD    1 READ AND    0 WRITE ERRORS.  TOTAL ERRORS =1
THERE WERE  1    REQUEST COMPLETE
THERE WERE  1    I/O REQUEST ABORTED BY POWER FAIL
THERE WERE  1    RECEIVE CHARACTER MODE
```

TAPETEST

DESCRIPTION:

THIS PROGRAM CERTIFIES MAG TAPES AND MAY BE USED TO SET UP AND CHECK OUT TAPE DRIVES. IT WRITES RECORDS OF 4095 WORDS IN LENGTH, EACH WORD HAS ALL BITS SET TO ONES. AFTER EACH WRITE A CHECK IS MADE TO DETERMINE THE NUMBER OF RETRYS THE SYSTEM HAD TO MAKE IN ORDER TO WRITE THE RECORD. ALL RETRYS AND TAPE ERRORS ARE REPORTED ALONG WITH THE RECORD NUMBER AND POSITION ON THE TAPE (IN FEET).

TAPETEST (cont)

OPERATION:

```
:RUN TAPETEST

 ****** TAPETEST <2.0> ******
 MOUNT THE TAPE TO BE TESTED FOR FILE 'TESTTAPE'
 YOU MAY TYPE CONTROL-Y AT ANY TIME TO SUSPEND '
 THE PROGRAM AND CONTROL THE TAPE
 WHAT DEVICE IS THE TESTTAPE ON ? 7
 1600 BPI TAPE DRIVE

ENTER ACTION(WRITE,REWIND,EXIT,PAUSE,NOPAUSE,TAPE)? WRITE
 WRITE RETRY   ON RECORD #433      214 FEET
 END OF TAPE
 CERTIFIED 214   FEET WITH     1 ERRORS
ENTER ACTION(WRITE,REWIND,EXIT,PAUSE,NOPAUSE,TAPE)? EXIT
 ****** END OF TAPETEST ******

END OF PROGRAM
```

```
:RUN TAPETEST

 ****** TAPETEST <2.0> ******
 MOUNT THE TAPE TO BE TESTED FOR FILE 'TESTTAPE'
 YOU MAY TYPE CONTROL-Y AT ANY TIME TO SUSPEND *
 THE PROGRAM AND CONTROL THE TAPE
 WHAT DEVICE IS THE TESTTAPE ON ? 8
 1600 BPI TAPE DRIVE
ENTER ACTION(WRITE,REWIND,EXIT,PAUSE,NOPAUSE,TAPE)? WRITE
 WRITE RETRY    ON RECORD #333       165 FEET
 WRITE RETRY    ON RECORD #477       236 FEET
 WRITE RETRY    ON RECORD #568       281 FEET
 WRITE RETRY    ON RECORD #612       302 FEET
 WRITE RETRY    ON RECORD #1843      911 FEET
 WRITE RETRY    ON RECORD #1917      947 FEET
 WRITE RETRY    ON RECORD #1960      969 FEET
 WRITE RETRY    ON RECORD #2429      1200 FEET
 END OF TAPE
 CERTIFIED 1201  FEET WITH     8 ERRORS
ENTER ACTION(WRITE,REWIND,EXIT,PAUSE,NOPAUSE,TAPE)? EXIT
 ****** END OF TAPETEST ******

END OF PROGRAM
```

```
#GUIDE

    RUN TAPETEST          (NO FILE EQUATIONS ARE NEEDED)

  IF RUN FROM A SESSION:
    THE PROGRAM WILL ASK FOR THE DEVICE NAME OF THE MAG TAPE DRIVE
    TO BE USED. REPLY WITH A LOGICAL DEVICE NUMBER, DEVICE CLASS
    NAME, OR 'TAPE'.
      THE PROGRAM WILL OPEN THE TAPE FILE, VERIFY THAT IT IS A
    MAG TAPE, LIST THE TAPE DENSITY, THEN ASK FOR A COMMAND.
    VALID COMMANDS ARE:
      WRITE.........CERTIFY THE TAPE BY WRITING ON IT.
      REWIND........REWIND THE CURRENT TAPE.
      PAUSE.........PAUSE ON ANY ERROR DETECTED.
      NOPAUSE.......DON'T PAUSE ON ERRORS.
      TAPE..........SELECT ANOTHER TAPE DRIVE.
      EXIT..........TERMINATE THE PROGRAM.
    TYPING A CONTROL-Y WHILE THE PROGRAM IS CERTIFYING WILL RETURN
    TO THE COMMAND INPUT POINT AND ACCEPT A NEW COMMAND.
    AT THE END OF THE TAPE THE TAPE IS REWOUND, THE TOTAL LENGTH
    OF THE TAPE IS LISTED AND THE PROGRAM ASKS FOR A NEW COMMAND.
```

BLDACCT1

DESCRIPTION:

Builds a stream job to recreate the accounting structure

CONSIDERATIONS:

It is unsupported

should have done it when you need it

will not recreate user attributes

store job files on tape

BLDACCT1 (cont.)

OPERATION:

```
:RUN BLDACCT1

                    BULDACCT-VERSION 3/16/77

THIS PROGRAM WILL RECONSTRUCT THE ACCOUNTING STRUCTURE

THE FILE JOBACCT AND JOBACCTB CAN BE TEXTED IN
BY THE EDITOR TO INSURE IT IS CORRECT
THIS FILE CAN BE STREAMED TO REBUILD THE ACCOUNTS

HAVE A HAPPY DAY

END OF PROGRAM
:RUN PSCREEN
```

```
:JOB MANAGER.SYS;HIPRI
:CONTINUE
:NEWACCT ACKERMAN,MARTIN;PASS=TROLL;MAXPRI=BS&
:;CAP=SM,AM,AL,GL,DI,OP,UV,CS,ND,SF,BA,IA,PM,MR,DS,PH;ACCESS=(&
:R,X:ANY;A,W,L:AC)
:CONTINUE
:NEWACCT ANY,USER;PASS=;MAXPRI=CS&
:;CAP=AM,AL,GL,ND,SF,BA,IA;ACCESS=(&
:R,A,W,L,X:AC)
:CONTINUE
:NEWACCT CLASS,TEST;PASS=;MAXPRI=CS&
    :;CAP=AM,AL,GL,ND,SF,BA,IA;ACCESS=(&
          :R,A,W,L,X:AC)

                    :;CAP=SM,AM,AL,GL,DI,OP,CV,UV,CS,ND,SF,BA,IA,PM,MR,DS,PH;ACCESS=(&
                    :R,X:ANY;A,W,L:AC)
:CONTINUE
:NEWACCT SUPP1,TEST;PASS=;MAXPRI=CS&
:;CAP=AM,AL,GL,ND,SF,BA,IA;ACCESS=(&
:R,A,W,L,X:AC)
:CONTINUE
:NEWACCT SUPPORT,FIELD;PASS=;MAXPRI=BS&
:;CAP=SM,AM,AL,GL,DI,OP,CV,UV,CS,ND,SF,BA,IA,PM,MR,DS,PH;ACCESS=(&
:R,X:ANY;A,W,L:AC)
:CONTINUE
:NEWACCT UTILS,MANAGER;PASS=;MAXPRI=BS&
:;CAP=SM,AM,AL,GL,DI,OP,CS,ND,SF,BA,IA,PM,MR,DS,PH;ACCESS=(&
:R,X:ANY;A,W,L:AC)
:CONTINUE
:STREAM JOBACCTB
:EOJ
```

```
:JOB MARTIN.ACKERMAN/TROLL
:CONTINUE
:NEWGROUP LOG;PASS=&
:;CAP=BA,IA;ACCESS=(&
:R,A,W,L,X,S:GU)
:CONTINUE
:NEWGROUP PROG;PASS=&
:;CAP=BA,IA,PM,DS,PH;ACCESS=(&
:R,X:ANY;A,W,L,S:AL;A,W,L,S:GU)
:CONTINUE
:ALTGROUP PUB;PASS=&
:;CAP=BA,IA,PM,MR,DS,PH;ACCESS=(&
:R,X:ANY;A,W,L,S:AL;A,W,L,S:GU)
:CONTINUE
:NEWGROUP SOURCE;PASS=&
:;CAP=BA,IA,PM,DS,PH;ACCESS=(&
:R,X:ANY;A,W,L,S:AL;A,W,L,S:GU)
:CONTINUE
:NEWGROUP TEXT;PASS=MLA&
      BA,IA,PM,MR,DS,PH;ACCESS=(&
           S:GU)

                  ;HOME=SOURCE;MAXPRI=BS&
                       CS,ND,SF,BA,IA,PM,MR,DS,PH



:ALTUSER MANAGER;PASS=;HOME=PUB;MAXPRI=BS&
:;CAP=SM,AM,AL,GL,DI,OP,CS,ND,SF,BA,IA,PM,MR,DS,PH
:EOJ
:CONTINUE
:JOB MANAGER.SYS;HIPRI
:REPORT @.@
:EOJ
```

PSCREEN

DESCRIPTION:

Transfers the contents of the screen and memory of a 264x terminal to the LP or a disc file.

CONSIDERATIONS:

Disc file is called LIST and if one exists it can be written.

The file list is in EDITOR format.

You can ACC=APPEND

It is unsupported

PSCREEN (cont)

OPERATION:

```
:LISTF

FILENAME

DIRPUR3      FLUSHER      FLUTIL3      GETFILE      LIST         LIST1
LIST2        LISTCRET

:PURGE LIST
:PURGE LIST1
:PURGEGROUP EDC
GROUP EDC TO BE PURGED? (YES/NO)Y
EXPECTED RESPONSE OF "YES" OR "NO".  (CIWARN 985)
GROUP EDC TO BE PURGED? (YES/NO)YES
IN USE:  CAN'T BE PURGED.   (CIERR 916)
:LISTF
NO FILES FOUND IN FILE-SET (CIWARN 431)
:BUILD LIST;REC=-80,16,F,ASCII
:FILE LIST;ACC=APPEND
:RUN PSCREEN.PUB.UTILS

**SCREEN CONTENTS @: WED, FEB  6, 1980, 11:38 AM
```

MOVEFILE

DESCRIPTION:

Moves files from one group and account to another

CONSIDERATIONS:

It is unsupported

Allows you to steal files

MOVEFILE (cont)

OPERATION:

```
:RUN MOVEFILE.PUB.UTILS

  MOVE FILES  <1.1>  WED, FEB  6, 1980, 11:38 AM

CURRENT GROUP NAME OF THE FILES ?
PUB
CURRENT ACCOUNT NAME OF THE FILES ?
UTILS
PURGE OLD FILES AFTER MOVE ?
NO

  ENTER ONE LINE OF FILE NAMES AND/OR RANGES SEPARATED BY COMMAS
  IN RESPONSE TO EACH REQUEST FOR FILE NAME
  (A RANGE OF FILES MAY BE SPECIFIED BY ENTERING THE FIRST FILE,
   A SLASH, THEN THE LAST FILE. IE.   FIRSTFILE/LASTFILE )

FILENAMES ?
:LISTF @.PUB.UTILS

FILENAME

BADBAD      BADBAD1     BLDACCT1    DIRPUR3     FLUSHER     FLUTIL3
GETFILE     LIST        LIST1       LIST2       LISTCRET    LOGUTIL
MAGTEST     MOVE        MOVEFILE    PSCREEN     PURGE       ROLAIDS
SADUTILG    SDUPII      SECTOR      SYSINFO     TAPECOPY    TAPESCAN
TAPETEST    TAPEVALD    TAPLIS      TUNER3
```

```
:RESUME
READ PENDING
BADBAD,DI/FLU,PURGE,TAPA/TAPZ
  MOVE BADBAD.PUB.UTILS
  MOVE DIRPUR3.PUB.UTILS
  MOVE PURGE.PUB.UTILS
  MOVE TAPECOPY.PUB.UTILS
  MOVE TAPESCAN.PUB.UTILS
  MOVE TAPETEST.PUB.UTILS
  MOVE TAPEVALD.PUB.UTILS
  MOVE TAPLIS.PUB.UTILS
FILENAMES ?

 THE END OF MOVEFILE

END OF PROGRAM
```

MOVE

DESCRIPTION:

Moves Files from one ldev to another

CONSIDERATIONS:

It is unsupported

If an error occurs - file goes away

Have the file backed up

MOVE (cont)

OPERATION:

```
:RUN MOVE

   MOVE FILES PROGRAM <1.0>

 ENTER A 'RETURN' IN RESPONSE TO 'FILE NAME ?'
 TO TERMINATE THIS PROGRAM
  FILE NAME ? SECTOR
SECTOR.PUB.UTILS              IS NOW ON DISC 1
 ENTER THE NEW DEVICE NUMBER : 1
 FILE NOT MOVED
  FILE NAME ?

END OF PROGRAM
```

TAPLIS

DESCRIPTION:

Lists the tape directory and if requested the Creator and lockword for each file on a store or sysdump tape.

CONSIDERATIONS:

allows anyone to obtain your lockwords

It is UNSUPPORTED

TAPLIS (cont)

```
:RUN TAPLIS

TAPLIS-VERSION 3/23/78

WANT CREATOR AND LOCKWORD?



END OF PROGRAM
:REDO
RUN TAPLIS


TAPLIS-VERSION 3/23/78

WANT CREATOR AND LOCKWORD? Y
IS THIS A CONTINUATION REEL? N

END OF PROGRAM
```

FILE	GROUP	ACCOUNT	FILE	GROUP	ACCOUNT	FILE	GROUP	ACCOUNT	FILE	GROUP	ACCOUNT
HADFILE4	UTIL	SUPP	BLDACCT1	UTIL	SUPP	BWORSTOR	UTIL	SJPP	CALC	UTIL	SUPP
CLKPROG	UTIL	SUPP	CONSOLE	UTIL	SUPP	CONSWHO	UTIL	SJPP	DIRPUR3	UTIL	SUPP
DISCFL3	UTIL	SUPP	DISKEDT2	UTIL	SUPP	FCOPY	UTIL	SJPP	FLIST	UTIL	SUPP
FLUSHER	UTIL	SUPP	FLUTIL3	UTIL	SUPP	FSFCTOR	UTIL	SUPP	FSPENT	UTIL	SUPP
GET3	UTIL	SUPP	GETDATA	UTIL	SUPP	GETFILE	UTIL	SJPP	GETFILE4	UTIL	SUPP
LABELOFF	UTIL	SUPP	LABELON	UTIL	SUPP	LIST	UTIL	SJPP	LISTCRE4	UTIL	SUPP
LISFST04	UTIL	SUPP	LOGUTIL	UTIL	SUPP	MAGTEST	UTIL	SJPP	MEMMAP7	UTIL	SUPP
MOVEFILE	UTIL	SUPP	PEEKABOO	UTIL	SUPP	PSCREEN	UTIL	SJPP	PURGE	UTIL	SUPP
PURGEK	UTIL	SUPP	PURGER	UTIL	SUPP	RECOVER2	UTIL	SJPP	RECOVER3	UTIL	SUPP
RENEW	UTIL	SUPP	RESTORE	UTIL	SUPP	ROLAIDS	UTIL	SJPP	SADUTIL	UTIL	SUPP
SADUTILG	UTIL	SUPP	SDUPII	UTIL	SUPP	SECTOR	UTIL	SJPP	SHOWVM	UTIL	SUPP
SLPATCH	UTIL	SUPP	SPOOK	UTIL	SUPP	SYSINFO	UTIL	SUPP	TAPECOPY	UTIL	SUPP
TAPESCAN	UTIL	SUPP	TAPETEST	UTIL	SUPP	TAPEVALD	UTIL	SJPP	TAPLIS	UTIL	SUPP
TAPLIS4	UTIL	SUPP	TERMTYPE	UTIL	SUPP	TLP1010	UTIL	SJPP	TUNER2	UTIL	SUPP
TUNER3	UTIL	SUPP									

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FILE	GROUP	ACCOUNT	FILE	GROUP	ACCOUNT
BWDRSTOR	UTIL	SJPP	CALC	UTIL	SUPP
CONSWHO	UTIL	SJPP	DIRPUR3	UTIL	SUPP
FCOPY	UTIL	SJPP	FLIST	UTIL	SUPP
FSECTOR	UTIL	SUPP	FSPENT	UTIL	SUPP
GETFILE	UTIL	SJPP	GETFILE4	UTIL	SUPP
LIST	UTIL	SJPP	LISTCRE4	UTIL	SUPP
MAGTEST	UTIL	SJPP	MEMMAP7	UTIL	SUPP
PSCREEN	UTIL	SJPP	PURGE	UTIL	SUPP
RECOVER2	UTIL	SJPP	RECOVER3	UTIL	SUPP
ROLAIDS	UTIL	SJPP	SADUTIL	UTIL	SUPP
SECTOR	UTIL	SJPP	SHOWVM	UTIL	SUPP
SYSINFO	UTIL	SUPP	TAPECOPY	UTIL	SUPP
TAPEVALD	UTIL	SJPP	TAPLIS	UTIL	SUPP
TLP1010	UTIL	SJPP	TUNER2	UTIL	SUPP

FILE	GROUP	ACCOUNT	FILE	GROUP	ACCOUNT
BADFILE4	UTIL	SUPP	BLDACCT1	UTIL	SUPP
CLKPROG	UTIL	SUPP	CONSOLE	UTIL	SUPP
DISCFL3	UTIL	SUPP	DISKEDT2	UTIL	SUPP
FLUSHER	UTIL	SUPP	FLUTIL3	UTIL	SUPP
GET3	UTIL	SUPP	GETDATA	UTIL	SUPP
LABELOFF	UTIL	SUPP	LABELON	UTIL	SUPP
LISTST04	UTIL	SUPP	LOGUTIL	UTIL	SUPP
MOVEFILE	UTIL	SUPP	PEEKABOO	UTIL	SUPP
PURGEK	UTIL	SUPP	PURGER	UTIL	SUPP
RENEW	UTIL	SUPP	RESTORE	UTIL	SUPP
SADUTILG	UTIL	SUPP	SOUPII	UTIL	SUPP
SLPATCH	UTIL	SUPP	SPOOK	UTIL	SUPP
TAPESCAN	UTIL	SUPP	TAPETEST	UTIL	SUPP
TAPLIS4	UTIL	SUPP	TERMTYPE	UTIL	SUPP
TUNER3	UTIL	SUPP			

THIS TAPE WAS CREATED 02/06/80 12:47PM

FILE	GROUP	ACCOUNT	CREATOR	LOCKWORD
BADFILE4	UTIL	SUPP	TEST	
BWORSTOR	UTIL	SUPP	TEST	
CLKPROG	UTIL	SUPP	TEST	
CONSWHO	UTIL	SUPP	TEST	
DISCFL3	UTIL	SUPP	TEST	
FCOPY	UTIL	SUPP	TEST	
FLUSHER	UTIL	SUPP	TEST	
FSECTOR	UTIL	SUPP	TEST	
GET3	UTIL	SUPP	TEST	
GETFILE	UTIL	SUPP	TEST	
LABELOFF	UTIL	SUPP	TEST	
LIST	UTIL	SUPP	TEST	
LISTSTC4	UTIL	SUPP	TEST	
MAGTEST	UTIL	SUPP	TEST	
MOVEFILE	UTIL	SUPP	TEST	
PSCREEN	UTIL	SUPP	TEST	
PURGEK	UTIL	SUPP	TEST	
RECOVER2	UTIL	SUPP	TEST	
RENEW	UTIL	SUPP	TEST	
ROLAIDS	UTIL	SUPP	TEST	
SACUTILG	UTIL	SUPP	TEST	
SECTOR	UTIL	SUPP	TEST	
SLPATCH	UTIL	SUPP	TEST	
SYSINFO	UTIL	SUPP	TEST	
TAPESCAN	UTIL	SUPP	TEST	
TAPEVALD	UTIL	SUPP	TEST	
TAPLIS4	UTIL	SUPP	TEST	
TLP1010	UTIL	SUPP	TEST	
TUNER3	UTIL	SUPP	TEST	

FILE	GROUP	ACCOUNT	CREATOR	LOCKWORD
BLDACCT1	UTIL	SUPP	TEST	
CALC	UTIL	SUPP	TEST	LOCKWORD
CONSOLE	UTIL	SUPP	TEST	
DIRPUR3	UTIL	SUPP	TEST	
DISKEDT2	UTIL	SUPP	TEST	
FLIST	UTIL	SUPP	TEST	
FLUTIL3	UTIL	SUPP	TEST	
FSPENT	UTIL	SUPP	TEST	
GETDATA	UTIL	SUPP	TEST	
GETFILE4	UTIL	SUPP	TEST	
LABELON	UTIL	SUPP	TEST	
LISTCRE4	UTIL	SUPP	TEST	
LOGUTIL	UTIL	SUPP	TEST	
MEMMAP7	UTIL	SUPP	TEST	
PEEKAB00	UTIL	SUPP	TEST	
PURGE	UTIL	SUPP	TEST	
PURGER	UTIL	SUPP	TEST	
RECOVER3	UTIL	SUPP	TEST	
RESTORE	UTIL	SUPP	TEST	
SADUTIL	UTIL	SUPP	TEST	
SDUPII	UTIL	SUPP	TEST	
SHOWVM	UTIL	SUPP	TEST	
SPOOK	UTIL	SUPP	TEST	
TAPECOPY	UTIL	SUPP	TEST	
TAPETEST	UTIL	SUPP	TEST	
TAPLIS	UTIL	SUPP	TEST	
TERMTYPE	UTIL	SUPP	TEST	
TUNER2	UTIL	SUPP	TEST	

THIS TAPE WAS CREATED 02/06/80 12:47PM

FILE	GROUP	ACCOUNT	CREATOR	LOCKWORD
BLDACCT1	UTIL	SUPP	TEST	
CALC	UTIL	SUPP	TEST	LOCKWORD
CONSOLE	UTIL	SUPP	TEST	
DIRPUR3	UTIL	SUPP	TEST	
DISKEDT2	UTIL	SUPP	TEST	
FLIST	UTIL	SUPP	TEST	
FLUTIL3	UTIL	SUPP	TEST	
FSPENT	UTIL	SUPP	TEST	
GETDATA	UTIL	SUPP	TEST	
GETFILE4	UTIL	SUPP	TEST	
	UTIL	SUPP	TEST	
		SUPP	TEST	
			TEST	
			TEST	
	UTIL	SUPP	TEST	
KULAIDS	UTIL	SUPP	TEST	
SADUTILG	UTIL	SUPP	TEST	
SECTOR	UTIL	SUPP	TEST	
SLPATCH	UTIL	SUPP	TEST	
SYSINFO	UTIL	SUPP	TEST	
TAPESCAN	UTIL	SUPP	TEST	
TAPEVALD	UTIL	SUPP	TEST	
TAPLIS4	UTIL	SUPP	TEST	
TLP1010	UTIL	SUPP	TEST	
TUNER3	UTIL	SUPP	TEST	

THIS TAPE WAS CREATED 02/06/80 12:47PM