


```

MM      MM      TTTTTTTTTT  HH      HH      IIIIII      IIIIII      HH      HH      NN      NN      NN      NN      TTTTTTTTTT
MM      MM      TTTTTTTTTT  HH      HH      IIIIII      IIIIII      HH      HH      NN      NN      NN      NN      TTTTTTTTTT
MMM     MMM     TT          HH      HH      II         II         HH      HH      NN      NN      NN      NN      TT
MMM     MMM     TT          HH      HH      II         II         HH      HH      NN      NN      NN      NN      TT
MM      MM      TT          HH      HH      II         II         HH      HH      NNNN     NN      NNNN     NN      TT
MM      MM      TT          HH      HH      II         II         HH      HH      NNNN     NN      NNNN     NN      TT
MM      MM      TT          HHHHHHHHHH  II         II         HHHHHHHHHH  NN      NN      NN      NN      NN      NN      TT
MM      MM      TT          HHHHHHHHHH  II         II         HHHHHHHHHH  NN      NN      NN      NN      NN      NN      TT
MM      MM      TT          HH      HH      II         II         HH      HH      NN      NNNN     NN      NNNN     TT
MM      MM      TT          HH      HH      II         II         HH      HH      NN      NNNN     NN      NNNN     TT
MM      MM      TT          HH      HH      II         II         HH      HH      NN      NN      NN      NN      NN      NN      TT
MM      MM      TT          HH      HH      II         II         HH      HH      NN      NN      NN      NN      NN      NN      TT
MM      MM      TT          HH      HH      IIIIII     IIIIII     HH      HH      NN      NN      NN      NN      NN      NN      TT
MM      MM      TT          HH      HH      IIIIII     IIIIII     HH      HH      NN      NN      NN      NN      NN      NN      TT

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```

LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II         SS
LL      II         SS
LL      II         SS
LL      II         SS
LL      II         SSSSSS
LL      II         SSSSSS
LL      II         SS
LL      II         SS
LL      II         SS
LL      II         SS
LLLLLLLLLL  IIIIII      SSSSSSSS
LLLLLLLLLL  IIIIII      SSSSSSSS

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M
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C
A
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1
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T
M

(2)	49	HISTORY	; Detailed Current Edit History
(3)	56	DECLARATIONS	
(4)	82	MTH\$IIHNNT	- return nearest integer as INTEGER*2


```

0000 1      .TITLE MTH$IIHNNT - Nearest Integer of H
0000 2      .IDENT /1-001/ ; File: MTH$IIHNNT.MAR
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27
0000 28
0000 29 FACILITY: MATH LIBRARY
0000 30 ++
0000 31 ABSTRACT:
0000 32
0000 33 Return nearest integer of a REAL*16 to a INTEGER*2.
0000 34
0000 35 --
0000 36
0000 37 VERSION: 1
0000 38
0000 39 HISTORY:
0000 40
0000 41 AUTHOR:
0000 42 Steven B. Lionel, 21-Aug-1979
0000 43
0000 44 MODIFIED BY:
0000 45
0000 46
0000 47

```

MTH\$IIHNNT
1-001

- Nearest Integer of H K 15 16-SEP-1984 01:42:35 VAX/VMS Macro V04-00 Page 2
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:26:02 [MTHRTL.SRC]MTH\$IIHNNT.MAR;1 (2)

0000 49 .SBTTL HISTORY ; Detailed Current Edit History
0000 50
0000 51
0000 52 ; Edit History for Version 1 of MTH\$IIHNNT
0000 53 ;
0000 54 ; 1-001 - Original. SBL 21-Aug-79


```
0000 56      .SBTTL DECLARATIONS
0000 57
0000 58 :
0000 59 : INCLUDE FILES:
0000 60 :
0000 61 :
0000 62 :
0000 63 : EXTERNAL SYMBOLS:
0000 64 :
0000 65 :
0000 66 :
0000 67 : MACROS:
0000 68 :
0000 69 :
0000 70 :
0000 71 : PSECT DECLARATIONS:
0000 72 : .PSECT _MTH$CODE      PIC, SHR, LONG, EXE, NOWRT
0000 73 :
0000 74 :
0000 75 : EQUATED SYMBOLS:
0000 76 :
0000 77 :
0000 78 :
0000 79 : OWN STORAGE:
0000 80 :
```

```

0000 82      .SBTTL MTH$IIHNNT - return nearest integer as INTEGER*2
0000 83
0000 84      :++
0000 85      : FUNCTIONAL DESCRIPTION:
0000 86
0000 87      : Returns the nearest integer (rounded away from zero) of a
0000 88      : REAL*16 to a INTEGER*2 as a function value.
0000 89
0000 90      : CALLING SEQUENCE:
0000 91
0000 92      :     result.wv.v = MTH$IIHNNT (arg.rh.r)
0000 93
0000 94
0000 95      : INPUT PARAMETERS:
0000 96      :     arg = 4           ; H floating argument
0000 97
0000 98      : IMPLICIT INPUTS:
0000 99      :     NONE
0000 100
0000 101     : OUTPUT PARAMETERS:
0000 102     :     NONE
0000 103
0000 104     : IMPLICIT OUTPUTS:
0000 105     :     NONE
0000 106
0000 107     : FUNCTION VALUE:
0000 108     :     The argument rounded to the nearest word integer away from
0000 109     :     zero.
0000 110
0000 111     : SIDE EFFECTS:
0000 112     :     Reserved operand, Integer overflow exceptions.
0000 113
0000 114     :--
0000 115
0000 116
0000 117
0000 118     .ENTRY MTH$IIHNNT,      ^M<IV>
50  04 BC 4000 0002 119     CVTRHL @arg(AP), R0      ; R0 = rounded argument
50  50  F7 0007 120     CVTLW  R0, R0      ; R0 = word result
000A 121     RET
000B 122
000B 123
000B 124     .END

```


A grid of 100 small terminal window screenshots, each displaying a different MTH (Management Tools Handbook) utility. The utilities are arranged in a 10x10 grid. Each window shows a command prompt, a header, and a list of data or options. The utilities include:

- MTHSIGN LIS (top right)
- MTHHFLOOR LIS (row 2, col 1)
- MTHSIGN LIS (row 2, col 5)
- MTHMINI LIS (row 3, col 3)
- MTHHLOG LIS (row 4, col 1)
- MTHHTAN LIS (row 5, col 7)
- MTHIDNNT LIS (row 5, col 8)
- MTHIHNT LIS (row 6, col 8)
- MTHHSORT LIS (row 7, col 6)
- MTHIMAX0 LIS (row 7, col 9)
- MTHHINT LIS (row 8, col 3)
- MTHHSINH LIS (row 8, col 6)
- MTHHTANH LIS (row 8, col 7)
- MTHHINT LIS (row 9, col 1)
- MTHHMAX1 LIS (row 9, col 2)
- MTHHSINCO LIS (row 9, col 3)
- MTHHMOD LIS (row 9, col 4)
- MTHIGNNT LIS (row 10, col 8)