


```

MM      MM      TTTTTTTTTT  HH      HH      HH      HH      SSSSSSSS  IIIIII  GGGGGGGG  NN      NN
MM      MM      TTTTTTTTTT  HH      HH      HH      HH      SSSSSSSS  IIIIII  GGGGGGGG  NN      NN
MMMM    MMMM      TT          HH      HH      HH      HH      SS          II      GG          NN      NN
MMMM    MMMM      TT          HH      HH      HH      HH      SS          II      GG          NN      NN
MM      MM      TT          HH      HH      HH      HH      SS          II      GG          NNNN     NN
MM      MM      TT          HH      HH      HH      HH      SS          II      GG          NNNN     NN
MM      MM      TT          HHHHHHHHHH  HHHHHHHHHH  SSSSSS     II      GG          NN      NN
MM      MM      TT          HHHHHHHHHH  HHHHHHHHHH  SSSSSS     II      GG          NN      NN
MM      MM      TT          HH      HH      HH      HH      SS          II      GG      GGGGGG  NN      NNNN
MM      MM      TT          HH      HH      HH      HH      SS          II      GG      GGGGGG  NN      NNNN
MM      MM      TT          HH      HH      HH      HH      SS          II      GG      GG          NN      NN
MM      MM      TT          HH      HH      HH      HH      SSSSSSSS  IIIIII  GGGGGG     NN      NN
MM      MM      TT          HH      HH      HH      HH      SSSSSSSS  IIIIII  GGGGGG     NN      NN

```

```

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

```

MTH
2-0
6C1
90E
81A
81A

01E
000
000

01E
000
000

414
800
000

01E
800
400

(2)	50	HISTORY	; Detailed Current Edit History
(3)	61	DECLARATIONS	
(4)	92	MTH\$HSIGN - H Transfer of Sign	

MTH
2-C

4D
3A
8E
72
36
70
C9
3F
AC
6B
55
00
00

CB
E5
BB
7F
36
59
F3
B5
A0
DA
6A
55
37
3C

D4
22
84
9E
FB
80
FC
87
12
FC
9E
11
55

```

0000 1      .TITLE MTH$HSIGN      ; H Floating Transfer of Sign
0000 2      .IDENT /1-002/        ; File: MTH$HSIGN.MAR  EDIT: RNH1002
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8 :*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9 :*  ALL RIGHTS RESERVED.
0000 10 :*
0000 11 :*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12 :*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13 :*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14 :*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15 :*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16 :*  TRANSFERRED.
0000 17 :*
0000 18 :*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19 :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20 :*  CORPORATION.
0000 21 :*
0000 22 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
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 This module contains routine MTH$HSIGN:
0000 33 Return arg1 with sign of arg2.
0000 34
0000 35
0000 36 --
0000 37
0000 38 VERSION: 1
0000 39
0000 40 HISTORY:
0000 41
0000 42 AUTHOR:
0000 43 Steven B. Lionel, 26-Jan-79: Version 1
0000 44
0000 45 MODIFIED BY:
0000 46
0000 47
0000 48

```

MT
2-
00

69
E3
D7
EC
A5
C5
AD
EC
A7
13
AE
01
00

B4
E3
4A
E4
A4
B2
BA
BF
8B
12
AE
08
3C

50
F5
F4
CF
0B
63
CE
1E
1F
1D
64
07

MTH\$HSIGN
1-002

```
0000 50      .SBTTL HISTORY      ; Detailed Current Edit History
0000 51
0000 52
0000 53 ; Edit History for Version 1 of MTH$HSIGN
0000 54 :
0000 55 : 1-001 - Adapted from MTH$DSIGN version 1-001. SBL 26-Jan-79
0000 56 : 1-002 - Eliminated reserved operand fault by including a special
0000 57 :      logic branch for input arguments with value 0.
0000 58 :      RNH 11-FEB-81
0000 59 :
```

MTI
2-
551
1B1

EDI
081
A91
4F1
891
EF1
151
DO1
F11
D41
FB1
CF1
001

9C1
BA1
471
901
421
FO1
AD1
8C1
8E1
BB1
D31
FB1
7B1
3C1

33
D3
23
01
08
20
F9
D0
9E
65
89

```
0000 61 .SBTTL DECLARATIONS
0000 62
0000 63 :
0000 64 : INCLUDE FILES:
0000 65 : NONE
0000 66 :
0000 67 :
0000 68 :
0000 69 : EXTERNAL SYMBOLS:
0000 70 : NONE
0000 71 :
0000 72 :
0000 73 :
0000 74 : MACROS:
0000 75 : NONE
0000 76 :
0000 77 :
0000 78 :
0000 79 : PSECT DECLARATIONS:
00000000 80 : .PSECT _MTH$CODE PIC, SHR, LONG, EXE, NOWRT
0000 81 :
0000 82 :
0000 83 : EQUATED SYMBOLS:
0000 84 : NONE
0000 85 :
0000 86 :
0000 87 :
0000 88 : OWN STORAGE:
0000 89 : NONE
0000 90 :
```

```

0000 92      .SBTTL  MTH$HSIGN - H Transfer of Sign
0000 93
0000 94      :++
0000 95      : FUNCTIONAL DESCRIPTION:
0000 96      :   Return the value of arg1 with the sign of arg2.
0000 97      :
0000 98      :
0000 99      : CALLING SEQUENCE:
0000 100     :
0000 101     :   CALL MTH$HSIGN (transfer_of_sign.wh.r, arg1.rh.r, arg2.rh.r)
0000 102     :
0000 103     :
0000 104     : INPUT PARAMETERS:
0000 105     :   The two input parameters are H floating-point
0000 106     :   values and are call-by-reference.
0000 107     :
0000 108     :
0000 109     : IMPLICIT INPUTS:
0000 110     :   NONE
0000 111     :
0000 112     : OUTPUT PARAMETERS:
0000 113     :   Because the H result is greater than 64 bits, it is returned
0000 114     :   as the first argument by reference, in accordance with
0000 115     :   system standards.
0000 116     :
0000 117     : IMPLICIT OUTPUTS:
0000 118     :   NONE
0000 119     :
0000 120     : COMPLETION CODES:
0000 121     :   NONE
0000 122     :
0000 123     : SIDE EFFECTS:
0000 124     :   NONE
0000 125     :
0000 126     :
0000 127     :--
0000 128
0000 129
0000 130
0000 131     .ENTRY  MTH$HSIGN,      ^M<>
0002 132
0008 133     MOVH   @8(AP), @4(AP)      ; Result = arg1
000A 134     BEQL   RETURN          ; Arg = 0, do not transfer sign
0010 135     EXTZV  #15, #1, @12(AP), R0 ; Get sign
0016 136     INSV   R0, #15, #1, @4(AP) ; Transfer
0017 137 RETURN: RET
0017 138
0017 139
0017 140     .END

```

```

0000 0000
04 BC 08 BC 70FD
50 0C BC 01 0F EF
04 BC 01 0F 50 F0
04

```

MTH\$HSIGN
Symbol table

; H Floating Transfer of Sign

J 6

16-SEP-1984 01:38:48
6-SEP-1984 11:25:18

VAX/VMS Macro V04-00
[MTHRTL.SRC]MTH\$HSIGN.MAR;1

Page 5
(4)

MTH\$HSIGN 00000000 RG 01
RETURN 00000016 R 01

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes												
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE		
_MTH\$CODE	00000017 (23.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG		

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.07	00:00:00.70
Command processing	126	00:00:00.52	00:00:03.23
Pass 1	67	00:00:00.41	00:00:03.91
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	40	00:00:00.34	00:00:02.30
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.14
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	275	00:00:01.38	00:00:10.51

The working set limit was 900 pages.
1398 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 2 non-local and 0 local symbols.
140 source lines were read in Pass 1, producing 10 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:MTH\$HSIGN/OBJ=OBJ\$:MTH\$HSIGN MSRC\$:MTH\$HSIGN/UPDATE=(ENH\$:MTH\$HSIGN)

This page contains a grid of 100 small, faint screenshots of VAX/VMS system utilities. Each utility is labeled with its name and the extension ".LIS". The utilities are arranged in a grid and include:

- MTHHFLOR LIS
- MTHHMINI LIS
- MTHHLOG LIS
- MTHHTAN LIS
- MTHHIDNNT LIS
- MTHHINT LIS
- MTHHMAX1 LIS
- MTHHSINCO LIS
- MTHHMOD LIS
- MTHHSORT LIS
- MTHHSINH LIS
- MTHHTANH LIS
- MTHHIGNNT LIS
- MTHIMAX0 LIS

The screenshots show various data tables, command prompts, and system status information, though the text is too small to read clearly. The overall appearance is that of a technical manual or reference card for system utilities.