


```

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

```

(2) 48
(3) 57
(4) 83

HISTORY ; Detailed Current Edit History
DECLARATIONS
MTH\$IISIGN

```
0000 1 .TITLE MTHSIISIGN IISIGN function
0000 2 .IDENT /1-002/ ; File: MTHSIISIGN.MAR
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 :
0000 33 :
0000 34 : --
0000 35 :
0000 36 : VERSION: 0
0000 37 :
0000 38 : HISTORY:
0000 39 :
0000 40 : AUTHOR:
0000 41 : Jonathan M. Taylor, 14-JUL-77: Version 0
0000 42 :
0000 43 : MODIFIED BY:
0000 44 :
0000 45 :
0000 46 :
```

MTHSIISIGN
1-002

E 16
IISIGN function 16-SEP-1984 01:42:55 VAX/VMS Macro V04-00 Page 2
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:26:04 [MTHRTL.SRC]MTHSIISIGN.MAR;1 (2)

0000 48 .SBTTL HISTORY ; Detailed Current Edit History
0000 49
0000 50
0000 51 ; Edit History for Version 0 of MTHSIISIGN
0000 52 ;
0000 53 ; 0-2 - Remove MTH\$FLAG_JACKET. TNH 5-July-78
0000 54 ; 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 55 ; 1-002 - Add '_' to the PSECT directive. JBS 22-DEC-78

```
0000 57      .SBTTL DECLARATIONS
0000 58
0000 59 :
0000 60 : INCLUDE FILES:
0000 61 :
0000 62 :
0000 63 :
0000 64 : EXTERNAL SYMBOLS:
0000 65 :
0000 66 :
0000 67 :
0000 68 : MACROS:
0000 69 :
0000 70 :
0000 71 :
0000 72 : PSECT DECLARATIONS:
0000 73 :     .PSECT _MTH$CODE      PIC, SHR, LONG, EXE, NOWRT
0000 74 :
0000 75 :
0000 76 : EQUATED SYMBOLS:
0000 77 :
0000 78 :
0000 79 :
0000 80 : OWN STORAGE:
0000 81 :
```

```

0000 83      .SBTTL MTH$IISIGN
0000 84
0000 85      :++
0000 86      : FUNCTIONAL DESCRIPTION:
0000 87      :
0000 88      :
0000 89      : CALLING SEQUENCE:
0000 90      :     NONE
0000 91      :
0000 92      :
0000 93      : INPUT PARAMETERS:
0000 94      :     NONE
0000 95      :
0000 96      : IMPLICIT INPUTS:
0000 97      :     NONE
0000 98      :
0000 99      : OUTPUT PARAMETERS:
0000 100     :     NONE
0000 101     :
0000 102     : IMPLICIT OUTPUTS:
0000 103     :     NONE
0000 104     :
0000 105     : COMPLETION CODES:
0000 106     :     NONE
0000 107     :
0000 108     : SIDE EFFECTS:
0000 109     :     NONE
0000 110     :
0000 111     :--
0000 112
50  04 BC 0000 0000 113      .ENTRY MTH$IISIGN,      ^M<>
0000 114      MOVW  @4(AP), R0      ; R0 = arg1
0000 115      BLSS  NEGARG      ; branch if negative arg
0000 116
0000 117      ; arg1 is non-negative, check sign of arg2
0000 118      :
0000 119      :
0000 120      :
0000 121      :
0000 122      :
0000 123      :
0000 124      :
0000 125      :
0000 126      : arg1 is negative, check sign of arg2
0000 127      :
0000 128      :
0000 129      :
0000 130      :
0000 131      :
0000 132      :
0000 133      :
0000 134      :
0000 134      .END

```

MTH\$IISIGN
Symbol table

IISIGN function

H 16

16-SEP-1984 01:42:55 VAX/VMS Macro V04-00
6-SEP-1984 11:26:04 [MTHRTL.SRC]MTH\$IISIGN.MAR;1

Page 5
(4)

EXIT	00000010 R	01
MTH\$IISIGN	00000000 RG	01
NEGARG	00000011 R	01
NEGATE	0000000D 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	32	00:00:00.13	00:00:00.83
Command processing	114	00:00:00.46	00:00:03.19
Pass 1	70	00:00:00.40	00:00:02.64
Symbol table sort	0	00:00:00.00	00:00:00.00
Pass 2	37	00:00:00.31	00:00:01.55
Symbol table output	2	00:00:00.01	00:00:00.01
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	259	00:00:01.33	00:00:08.24

The working set limit was 750 pages.
1320 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 4 non-local and 0 local symbols.
134 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\$IISIGN/OBJ=OBJ\$:MTH\$IISIGN MSRCS\$:MTH\$IISIGN/UPDATE=(ENH\$:MTH\$IISIGN)

MTHSIGN LIS

MTHFLOOR LIS

MTHSIGN LIS

MTHMINI LIS

MTHLOG LIS

MTHHTAN LIS

MTHIDNNT LIS

MTHIHNT LIS

MTHHSORT LIS

MTHIMAX0 LIS

MTHHINT LIS

MTHHSINH LIS

MTHHTANH LIS

MTHHINT LIS

MTHMAX1 LIS

MTHHSINCO LIS

MTHMOD LIS

MTHIGNNT LIS