


```

MM      MM      TTTTTTTTTT  HH      HH      MM      MM      SSSSSSSS  GGGGGGGG
MM      MM      TTTTTTTTTT  HH      HH      MM      MM      SSSSSSSS  GGGGGGGG
MMMM    MMMM      TT          HH      HH      MMMM    MMMM  SS          GG
MMMM    MMMM      TT          HH      HH      MMMM    MMMM  SS          GG
MM      MM      TT          HH      HH      MM      MM      SS          GG
MM      MM      TT          HH      HH      MM      MM      SS          GG
MM      MM      TT          HHHHHHHHHH  MM      MM      SSSSSS    GG
MM      MM      TT          HHHHHHHHHH  MM      MM      SSSSSS    GG
MM      MM      TT          HH      HH      MM      MM      SS          GG
MM      MM      TT          HH      HH      MM      MM      SS          GG
MM      MM      TT          HH      HH      MM      MM      SS          GG
MM      MM      TT          HH      HH      MM      MM      SS          GG
MM      MM      TT          HH      HH      MM      MM      SSSSSSSS  GGGGGG
MM      MM      TT          HH      HH      MM      MM      SSSSSSSS  GGGGGG

```

```

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

```

```

1      .TITLE MTH$MSGDEF      MTH$ facility messages
2      .IDENT '2-002'        ! File: MTHMSG.MSG Edit: SBL2002
3
4      *****
5      *
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23     *
24     *
25     *****
26
27
28     2-001 - Convert to MESSAGE utility source format. Adapted from MTHMSG.MDL
29           version 1-004. SBL 22-Apr-1981
30     2-002 - Add .TITLE. SBL 28-Aug-1982
31
32     *
33     * Symbols are defined following the standard for global names:
34     *
35     * MTH$_abc_mno_xyz
36     *
37     * In addition, the library standards specify that the letters 'abc', 'mno',
38     * and 'xyz' are the first three letters of the first three words of the error
39     * message, not counting articles and prepositions.
40     *
41     * The names of all procedures using each error condition value should appear
42     * in the comments included with each error definition.
43     *
44     *
45     * MACRO-32 Programming:
46     *
47     * The macros call:
48     *
49     * $MTHDEF
50     *
51     * will cause all symbols to be made available to the module.
52     * The STS$V_MSG_ID is the FORTRAN error number (1:94).
53     * The Run-time Library declares these symbols EXTERNAL;
54     * the macros are provided only for the convenience of the user.
55     *
56     !-

```

```

57
58
59
60
61
62
63 ;
64 ; Set sub-system specific bit and make SEVERE
65 ; Set LH to 22 (decimal) MTHS prefix
00000016 66 .FACILITY MTH,22 /SYSTEM
67 .SEVERITY FATAL
68 .BASE 80
69
00168284 70 WRONUMARG <wrong number of arguments!/ user PC !XL> /FAO=1
0016828C 71 INVARGMAT <invalid argument to math library!/ user PC !XL> /FAO=1
00168294 72 UNDEXP <undefined exponentiation!/ user PC !XL> /FAO=1
0016829C 73 LOGZERNEG <logarithm of zero or negative value!/ user PC !XL> /FAO=1
001682A4 74 SQUROONEG <square root of negative value!/ user PC !XL> /FAO=1
75
76 ;
77 ; Set sub-system specific bit and make SEVERE
78 ; Set LH to 22 (decimal) MTHS prefix
79
80 .BASE 87
81
001682BC 82 SIGLOSMAT <significance lost in math library!/ user PC !XL> /FAO=1
001682C4 83 FLOOVEMAT <floating overflow in math library!/ user PC !XL> /FAO=1
001682CC 84 FLOUNDMAT <floating underflow in math library!/ user PC !XL> /FAO=1
85
86 .LITERAL MTHS_SINCOSSIG=1475260
87
88 .END
89
90 ! End of file MTHMSG.MSG

```

There were 0 errors, 0 warnings, and 0 informational messages issued.
 MESSAGE/NOTEXT/LIS=LISS:MTHMSG/OBJ=OBJ:MTHMSG MSRC\$:MTHMSG

A grid of 100 terminal window screenshots, arranged in 10 rows and 10 columns. Each window displays a different MTH (Mathematical Toolkit) routine. The visible titles include:

- MTHMINO LIS
- MTHJMINO LIS
- MTHMSG LIS
- MTHMAXI LIS
- MTHJIDMNT LIS
- MTHMSGDEF LIS
- MTHJHMNT LIS
- MTHSGN LIS
- MTHMAXO LIS
- MTHMOD LIS
- MTHSIGNAL LIS
- MTHSORTR2 LIS
- MTHJINT LIS
- MTHSINCO LIS
- MTHSORT LIS
- MTHININT LIS
- MTHRANDOM LIS
- MTHJIGNNT LIS
- MTHMINI LIS
- MTHJISGN LIS
- MTHSIGN LIS
- MTHSINH LIS

The screenshots show various mathematical functions, data tables, and command-line interfaces. The text is rendered in a monospaced font, typical of early computer terminals.