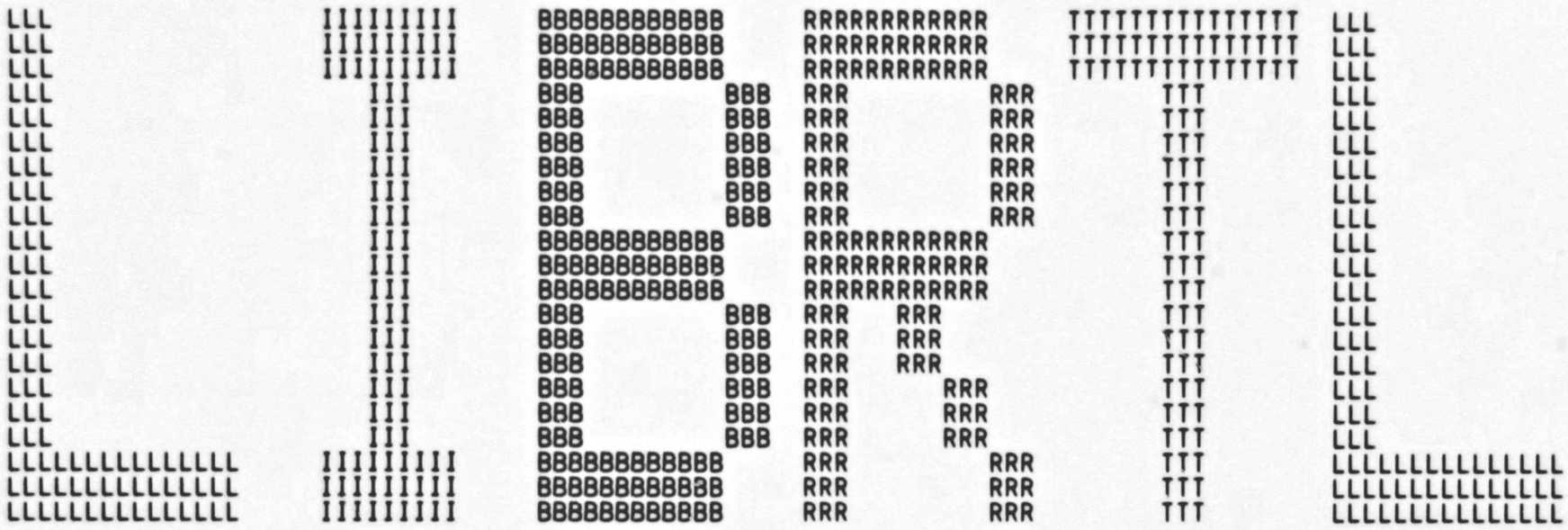
LLL IIIIIIIII BBBBBBBBBBB RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
LLL IIIIIIIII BBBBBBBBBBBB RRRRRRRRRRRR TTTTTTTTTTTTTTT LLL
LLL IIIIIIIII BBBBBBBBBBBB RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBBBBBBBBBB RRRRRRRRRRR TTT LLL
LLL III BBBBBBBBBBBB RRRRRRRRRRRR TTT LLL
LLL III BBBBBBBBBBBB RRRRRRRRRRRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLL III BBB BBB RRR RRR TTT LLL
LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBBB RRR RRR TTT LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBBB RRR RRR TTT LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLL IIIIIIIII BBBBBBBBBBBB RRR RRR TTT LLLLLLLLLLLLLLL

FILEID**LIBLPLINE

```
LL              IIIIII    BBBBBBBB    LL          PPPPPPPP    LL          IIIIII    NN      NN  EEEEEEEEEE
LL              IIIIII    BBBBBBBB    LL          PPPPPPPP    LL          IIIIII    NN      NN  EEEEEEEEEE
LL                II      BB      BB  LL          PP      PP  LL            II      NN      NN  EE
LL                II      BB      BB  LL          PP      PP  LL            II      NN      NN  EE
LL                II      BB      BB  LL          PP      PP  LL            II      NNNN    NN  EE
LL                II      BB      BB  LL          PP      PP  LL            II      NNNN    NN  EE
LL                II      BBBBBBBB    LL          PPPPPPPP    LL            II      NN  NN  NN  EEEEEEEE
LL                II      BBBBBBBB    LL          PPPPPPPP    LL            II      NN  NN  NN  EEEEEEEE
LL                II      BB      BB  LL          PP          LL            II      NN    NNNN  EE
LL                II      BB      BB  LL          PP          LL            II      NN    NNNN  EE
LL                II      BB      BB  LL          PP          LL            II      NN      NN  EE              ....
LL                II      BB      BB  LL          PP          LL            II      NN      NN  EE              ....
LLLLLLLLLL      IIIIII    BBBBBBBB    LLLLLLLLLL  PP          LLLLLLLLLL  IIIIII    NN      NN  EEEEEEEEEE      ....
LLLLLLLLLL      IIIIII    BBBBBBBB    LLLLLLLLLL  PP          LLLLLLLLLL  IIIIII    NN      NN  EEEEEEEEEE      ....

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        0001  0 MODULE LIB$LP_LINES (%TITLE'Fetch number of lines per page'
;     2        0002  0                 IDENT = '1-003'         ! File: LIBLPLINE.B32  Edit: SBL1003
;     3        0003  0                 ) =
;     4        0004  1 BEGIN
;     5        0005  1 !
;     6        0006  1 !**************************************************************************
;     7        0007  1 !*                                                                        *
;     8        0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                               *
;     9        0009  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
;    10        0010  1 !*  ALL RIGHTS RESERVED.                                                   *
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;    14        0014  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
;    15        0015  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY  *
;    16        0016  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY  *
;    17        0017  1 !*  TRANSFERRED.                                                           *
;    18        0018  1 !*                                                                        *
;    19        0019  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE  *
;    20        0020  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT  *
;    21        0021  1 !*  CORPORATION.                                                           *
;    22        0022  1 !*                                                                        *
;    23        0023  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS  *
;    24        0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
;    25        0025  1 !*                                                                        *
;    26        0026  1 !*                                                                        *
;    27        0027  1 !**************************************************************************
;    28        0028  1 !
;    29        0029  1
;    30        0030  1 !++
;    31        0031  1 ! FACILITY: General Purpose Library
;    32        0032  1 !
;    33        0033  1 ! ABSTRACT:
;    34        0034  1 !
;    35        0035  1 !       Contains a routine to return the system-wide default Line Printer length,
;    36        0036  1 !       as determined by the logical name SYS$LP_LINES.
;    37        0037  1 !
;    38        0038  1 ! ENVIRONMENT: User mode - AST reentrant
;    39        0039  1 !
;    40        0040  1 ! AUTHOR: Richard Grove and Steven Lionel, CREATION DATE: 10-Sep-1979
;    41        0041  1 !
;    42        0042  1 ! EDIT HISTORY:
;    43        0043  1 !
;    44        0044  1 ! 1-001 - Original.
;    45        0045  1 ! 1-002 - Improve comments and remove OTSMAC.  JBS 31-OCT-1979
;    46        0046  1 ! 1-003 - Use LIBPROLOG.  Change high limit from 99 to 255.  SBL 18-Jan-1983
;    47        0047  1 !<BLF/PAGE>
```

```
;    49          0048  1 %SBTTL'Declarations'
;    50          0049  1 !
;    51          0050  1 ! PROLOGUE FILE:
;    52          0051  1 !
;    53          0052  1
;    54          0053  1 REQUIRE 'RTLIN:LIBPROLOG';                  ! LIB$ declarations
;    55          0124  1
;    56          0125  1 !
;    57          0126  1 ! TABLE OF CONTENTS:
;    58          0127  1 !
;    59          0128  1
;    60          0129  1 FORWARD ROUTINE
;    61          0130  1     LIB$LP_LINES;                           ! Get default Line Printer length
;    62          0131  1
;    63          0132  1 !
;    64          0133  1 ! MACROS:
;    65          0134  1 !
;    66          0135  1 !       NONE
;    67          0136  1 !
;    68          0137  1 ! EQUATED SYMBOLS:
;    69          0138  1 !
;    70          0139  1 !       NONE
;    71          0140  1 !
;    72          0141  1 ! OWN STORAGE:
;    73          0142  1 !
;    74          0143  1 !       NONE
;    75          0144  1 !
;    76          0145  1 ! EXTERNAL REFERENCES:
;    77          0146  1 !
;    78          0147  1
;    79          0148  1 EXTERNAL ROUTINE
;    80          0149  1     OTS$CVT_TI_L;                           ! Convert ASCII text string to longword integer
;    81          0150  1
```

```
;    83          0151  1 %SBTTL'LIB$LP_LINES - Fetch number of lines per page'
;    84          0152  1 GLOBAL ROUTINE LIB$LP_LINES =
;    85          0153  1
;    86          0154  1 !++
;    87          0155  1 ! FUNCTIONAL DESCRIPTION:
;    88          0156  1 !
;    89          0157  1 !       LIB$LP_LINES   computes the   default  number  of  lines  on   a
;    90          0158  1 !       line-printer page.  This procedure (or an equivalent computation)
;    91          0159  1 !       should be used by all native-mode VAX/VMS utilities that  produce
;    92          0160  1 !       "listing" files and do pagination.
;    93          0161  1 !
;    94          0162  1 !       U.S.  standard paper stock permits 66  lines  of  printing  on  a
;    95          0163  1 !       physical page.  From this value, the utility should deduct:
;    96          0164  1 !
;    97          0165  1 !            1.  3 lines for top margin
;    98          0166  1 !
;    99          0167  1 !            2.  3 lines for bottom margin
;   100          0168  1 !
;   101          0169  1 !            3.  3 lines for listing heading information, consisting of:
;   102          0170  1 !
;   103          0171  1 !                1.  Language-processor identification line
;   104          0172  1 !
;   105          0173  1 !                2.  Source-program identification line
;   106          0174  1 !
;   107          0175  1 !                3.  One blank line
;   108          0176  1 !
;   109          0177  1 !       The algorithm used by LIB$LP_LINES is:
;   110          0178  1 !
;   111          0179  1 !            1.  Translate the logical name SYS$LP_LINES
;   112          0180  1 !
;   113          0181  1 !            2.  Convert the ASCII value obtained to a binary integer
;   114          0182  1 !
;   115          0183  1 !            3.  Verify that the resulting value is in the range [30:255].
;   116          0184  1 !
;   117          0185  1 !            4.  If any of the steps above fail, return the default  U.S.
;   118          0186  1 !                paper size of 66 lines.
;   119          0187  1 !
;   120          0188  1 ! CALLING SEQUENCE:
;   121          0189  1 !
;   122          0190  1 !       LP_length.wl.v = LIB$LP_LINES ( )
;   123          0191  1 !
;   124          0192  1 !
;   125          0193  1 ! FORMAL PARAMETERS:
;   126          0194  1 !
;   127          0195  1 !       NONE
;   128          0196  1 !
;   129          0197  1 ! IMPLICIT INPUTS:
;   130          0198  1 !
;   131          0199  1 !       System-wide (or user-defined) logical name SYS$LP_LINES
;   132          0200  1 !
;   133          0201  1 ! IMPLICIT OUTPUTS:
;   134          0202  1 !
;   135          0203  1 !       NONE
;   136          0204  1 !
;   137          0205  1 ! ROUTINE VALUE:
;   138          0206  1 !
;   139          0207  1 !       Default number of lines on a Physical Line Printer page.
```

```
;  140     0208  1 !       If the logical name translation or conversion to binary
;  141     0209  1 !       fails, a default value of 66 is returned.
;  142     0210  1 !
;  143     0211  1 ! SIDE EFFECTS:
;  144     0212  1 !
;  145     0213  1 !       NONE
;  146     0214  1 !
;  147     0215  1 !--
;  148     0216  1
;  149     0217  2     BEGIN
;  150     0218  2
;  151     0219  2     LOCAL
;  152     0220  2         LOGDES : BLOCK [8, BYTE],                   ! String descriptor for logical name
;  153     0221  2         NUMBER,                                     ! Accumulator for integer conversion
;  154     0222  2         NUMDES : BLOCK [8, BYTE],                   ! String descriptor for translated string
;  155     0223  2         NUMSTR : VECTOR [LNM$C_NAMLENGTH, BYTE];    ! Buffer for translated string
;  156     0224  2
;  157     0225  2 !+
;  158     0226  2 ! Initialize descriptors for logical name and translated string
;  159     0227  2 !-
;  160     0228  2     LOGDES [DSC$B_CLASS] = DSC$K_CLASS_S;
;  161     0229  2     LOGDES [DSC$B_DTYPE] = DSC$K_DTYPE_T;
;  162     0230  2     LOGDES [DSC$W_LENGTH] = %CHARCOUNT('SYS$LP_LINES');
;  163     0231  2     LOGDES [DSC$A_POINTER] = UPLIT BYTE('SYS$LP_LINES');
;  164     0232  2     NUMDES [DSC$B_CLASS] = DSC$K_CLASS_S;
;  165     0233  2     NUMDES [DSC$B_DTYPE] = DSC$K_DTYPE_T;
;  166     0234  2     NUMDES [DSC$W_LENGTH] = LNM$C_NAMLENGTH;
;  167     0235  2     NUMDES [DSC$A_POINTER] = NUMSTR [0];
;  168     0236  2 !+
;  169     0237  2 ! Translate and convert the logical name SYS$LP_LINES to determine
;  170     0238  2 ! default number of lines on LP listing page.
;  171     0239  2 !-
;  172     0240  2
;  173     0241  3     IF $TRNLOG (LOGNAM = LOGDES, RSLBUF = NUMDES, RSLLEN = NUMDES [DSC$W_LENGTH])
;  174     0242  2     THEN
;  175     0243  2
;  176     0244  2         IF OTS$CVT_TI_L (NUMDES, NUMBER, 4, 1)
;  177     0245  2         THEN
;  178     0246  2
;  179     0247  2             IF .NUMBER GEQ 30 AND .NUMBER LEQ 255 THEN RETURN .NUMBER;
;  180     0248  2
;  181     0249  2 !+
;  182     0250  2 ! The default value for U.S. standard paper stock is 66.
;  183     0251  2 !-
;  184     0252  2     RETURN 66;
;  185     0253  1     END;                                            ! of routine LIB$LP_LINES

                                                        .TITLE  LIB$LP_LINES Fetch number of lines per page
                                                        .IDENT  \1-003\

                                                        .PSECT  _LIB$CODE,NOWRT,  SHR,  PIC,2

53 45 4E 49 4C 5F 50 4C 24 53 59 53 00000 P.AAA:        .ASCII  \SYS$LP_LINES\                                  ;

                                                        .EXTRN  OTS$CVT_TI_L, SYS$TRNLOG
```

```
                                    0000 00000          .ENTRY  LIB$LP_LINES, Save nothing                      ; 0152
                              5E      FEEC  CE   9E 00002       MOVAB   -276(SP), SP                            ;
                           F8 AD 010E000C   8F   D0 00007       MOVL    #17694732, LOGDES                       ; 0230
                           FC AD       E2   AF   9E 0000F       MOVAB   P.AAA, LOGDES+4                         ; 0231
                           F0 AD 010E00FF   8F   D0 00014       MOVL    #17694975, NUMDES                       ; 0234
                           F4 AD       04   AE   9E 0001C       MOVAB   NUMSTR, NUMDES+4                        ; 0235
                                            7E   7C 00021       CLRQ    -(SP)                                   ; 0241
                                            7E   D4 00023       CLRL    -(SP)                                   ;
                                       F0   AD   9F 00025       PUSHAB  NUMDES                                  ;
                                       F0   AD   9F 00028       PUSHAB  NUMDES                                  ;
                                       F8   AD   9F 0002B       PUSHAB  LOGDES                                  ;
                        00000000G      00        FB 0002E       CALLS   #6, SYS$TRNLOG                          ;
                                       26        50   E9 00035  BLBC    R0, 1$                                  ;
                                                 01   DD 00038  PUSHL   #1                                      ; 0244
                                                 04   DD 0003A  PUSHL   #4                                      ;
                                       08   AE   9F 0003C       PUSHAB  NUMBER                                  ;
                                       F0   AD   9F 0003F       PUSHAB  NUMDES                                  ;
                        00000000G      00        04   FB 00042  CALLS   #4, OTS$CVT_TI_L                       ;
                                       12        50   E9 00049  BLBC    R0, 1$                                  ;
                                       1E        6E   D1 0004C  CMPL    NUMBER, #30                             ; 0247
                                                 0D   19 0004F  BLSS    1$                                      ;
                        000000FF       8F        6E   D1 00051  CMPL    NUMBER, #255                            ;
                                                 04   14 00058  BGTR    1$                                      ;
                                       50        6E   D0 0005A  MOVL    NUMBER, R0                              ;
                                                 04   0005D    RET                                             ;
                                       50   42   8F   9A 0005E 1$:  MOVZBL  #66, R0                            ; 0252
                                                 04   00062    RET                                             ; 0253

; Routine Size:  99 bytes,    Routine Base:  _LIB$CODE + 000C

;  186          0254  1
;  187          0255  1 END                                     !End of module LIB$LP_LINES
;  188          0256  1
;  189          0257  0 ELUDOM



;                                PSECT SUMMARY

;      Name                      Bytes                         Attributes

;  _LIB$CODE                        111  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)


;                             Library Statistics

;                                        --------- Symbols ---------      Pages       Processing
;      File                              Total     Loaded    Percent      Mapped      Time

;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776         10          0         581       00:00.8
;  _$255$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1     36          0          0           8       00:00.1
```

```
;                                       COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:LIBLPLINE/OBJ=OBJ$:LIBLPLINE MSRC$:LIBLPLINE/UPDATE=(ENH$:LIBLPLINE
;       )

; Size:          99 code + 12 data bytes
; Run Time:          00:03.0
; Elapsed Time:      00:13.5
; Lines/CPU Min:      5122
; Lexemes/CPU-Min: 18877
; Memory Used:   51 pages
; Compilation Complete
```

LIBLOCC
LIS

LIBLUN
LIS

LIBMOVC3
LIS

LIBMOVTC
LIS

LIBPOLYF
LIS

LIBINSQTI
LIS

LIBINTOVE
LIS

LIBLEXICA
LIS

LIBPKARIT
LIS

LIBMATCHC
LIS

LIBPOLYD
LIS

LIBLOOKUP
LIS

LIBLPLINE
LIS

LIBMOVC5
LIS

LIBLEN
LIS

LIBMSG
LIS

LIBINSV
LIS

LIBMATCA
LIS

LIBMOVTUC
LIS