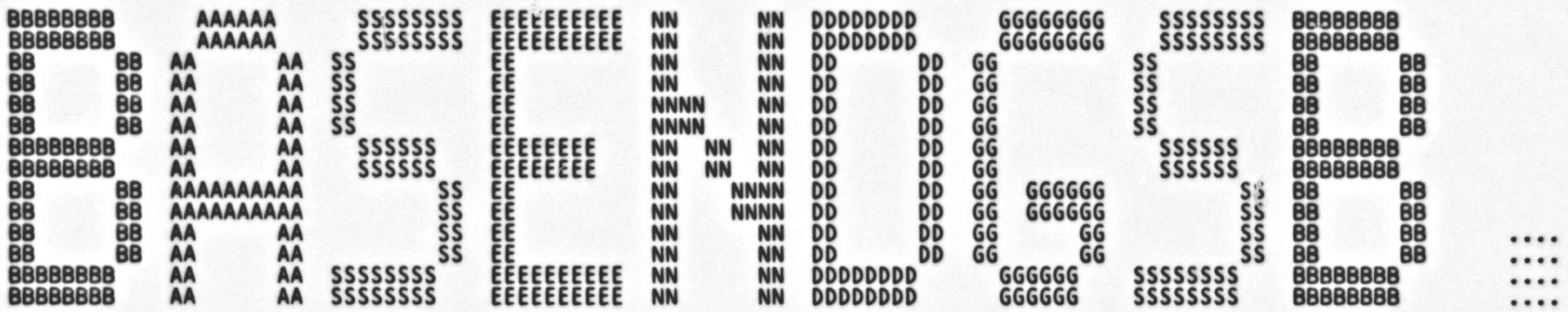
```
BBBBBBBBBBBB        AAAAAAAAA       SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBBBBBBBBBBB        AAAAAAAAA       SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBBBBBBBBBBB        AAAAAAAAA       SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
BBB          BBB   AAA         AAA  SSS          RRR         RRR       TTT        LLL
BBB          BBB   AAA         AAA  SSS          RRR         RRR       TTT        LLL
BBB          BBB   AAA         AAA  SSS          RRR         RRR       TTT        LLL
BBB          BBB   AAA         AAA  SSS          RRR         RRR       TTT        LLL
BBB          BBB   AAA         AAA  SSS          RRR         RRR       TTT        LLL
BBB          BBB   AAA         AAA  SSS          RRR         RRR       TTT        LLL
BBBBBBBBBBBB       AAA         AAA     SSSSSSSSS    RRRRRRRRRRR       TTT        LLL
BBBBBBBBBBBB       AAA         AAA     SSSSSSSSS    RRRRRRRRRRR       TTT        LLL
BBBBBBBBBBBB       AAA         AAA     SSSSSSSSS    RRRRRRRRRRR       TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR         TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR         TTT        LLL
BBB          BBB   AAAAAAAAAAAAAAA           SSS  RRR   RRR         TTT        LLL
BBB          BBB   AAA         AAA           SSS  RRR      RRR      TTT        LLL
BBB          BBB   AAA         AAA           SSS  RRR      RRR      TTT        LLL
BBB          BBB   AAA         AAA           SSS  RRR      RRR      TTT        LLL
BBBBBBBBBBBB       AAA         AAA  SSSSSSSSSSS  RRR         RRR    TTT        LLLLLLLLLLLLLLL
BBBBBBBBBBBB       AAA         AAA  SSSSSSSSSSS  RRR         RRR    TTT        LLLLLLLLLLLLLLL
BBBBBBBBBBBB       AAA         AAA  SSSSSSSSSSS  RRR         RRR    TTT        LLLLLLLLLLLLLLL
```

FILEID**BASENDGSB



```
;     1          0001  0 MODULE BAS$END_GSB (                                  !
;     2          0002  0                     IDENT = '1-002'                  ! File: BASENDGSB.B32
;     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.                    *
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;    18          0018  1 !*                                                                           *
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;    20          0020  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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;    22          0022  1 !*                                                                           *
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;    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 !++
;    32          0032  1 ! FACILITY:  BASIC-PLUS-2 Frame Support
;    33          0033  1 !
;    34          0034  1 ! ABSTRACT:
;    35          0035  1 !
;    36          0036  1 !       These routines set up and tear down frames for BASIC-PLUS-2.
;    37          0037  1 !       Frames are used for main routines, external functions,
;    38          0038  1 !       external subroutines, internal functions (both DEFs and DEF*s)
;    39          0039  1 !       internal subroutines (GOSUBs) and condition handlers.
;    40          0040  1 !
;    41          0041  1 ! ENVIRONMENT:  VAX-11 user mode
;    42          0042  1 !
;    43          0043  1 ! AUTHOR: John Sauter, CREATION DATE: 10-Oct-78
;    44          0044  1 !
;    45          0045  1 ! MODIFIED BY:
;    46          0046  1 !
;    47          0047  1 ! 1-001 - Original.
;    48          0048  1 ! 1-002 - Change BAS$ to BSF$ prefix for BASIC stack frame.  JBS 08-FEB-1979
;    49          0049  1 !--
;    50          0050  1
;    51          0051  1 !<BLF/PAGE>
```

```
;    53          0052  1 !
;    54          0053  1 ! SWITCHES:
;    55          0054  1 !
;    56          0055  1
;    57          0056  1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;    58          0057  1
;    59          0058  1 !
;    60          0059  1 ! LINKAGES:
;    61          0060  1 !
;    62          0061  1
;    63          0062  1 LINKAGE
;    64          0063  1     BAS$INIT_LINK = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2) :    !
;    65          0064  1     GLOBAL (BSF$A_MAJOR_STG = 11, BSF$A_MINOR_STG = 10, BSF$A_TEMP_STG = 9)     !
;    66          0065  1     NOPRESERVE (8, 7, 6, 5, 4, 3, 2, 1, 0);
;    67          0066  1
;    68          0067  1 !
;    69          0068  1 ! TABLE OF CONTENTS:
;    70          0069  1 !
;    71          0070  1
;    72          0071  1 FORWARD ROUTINE
;    73          0072  1     BAS$END_GSB_R8 : NOVALUE BAS$INIT_LINK;     ! end GOSUB
;    74          0073  1
;    75          0074  1 !
;    76          0075  1 ! INCLUDE FILES:
;    77          0076  1 !
;    78          0077  1
;    79          0078  1 REQUIRE 'RTLIN:RTLPSECT';                       ! macros for defing psects
;    80          0173  1
;    81          0174  1 REQUIRE 'RTLIN:BASFRAME.REQ';           ! Define frame structure
;    82          0377  1
;    83          0378  1 !
;    84          0379  1 ! MACROS:
;    85          0380  1 !
;    86          0381  1 !       NONE
;    87          0382  1 !
;    88          0383  1 ! EQUATED SYMBOLS:
;    89          0384  1 !
;    90          0385  1 !       NONE
;    91          0386  1 !
;    92          0387  1 ! PSECTS:
;    93          0388  1 !
;    94          0389  1 DECLARE_PSECTS (BAS);                           ! Declare psects for BAS$ facility
;    95          0390  1 !
;    96          0391  1 ! OWN STORAGE:
;    97          0392  1 !
;    98          0393  1 !       NONE
;    99          0394  1 !
;   100          0395  1 ! EXTERNAL REFERENCES:
;   101          0396  1 !
;   102          0397  1
;   103          0398  1 EXTERNAL ROUTINE
;   104          0399  1     BAS$$STOP : NOVALUE;                        ! signals error
;   105          0400  1
;   106          0401  1 !+
;   107          0402  1 ! The following are the error codes used in this module.
;   108          0403  1 !-
;   109          0404  1
```

```
;  110          0405  1 EXTERNAL LITERAL
;  111          0406  1     BAS$K_RETWITGOS : UNSIGNED (8);          ! RETURN without GOSUB
;  112          0407  1
```

```
;  114     0408  1 GLOBAL ROUTINE BAS$END_GSB_R8                    ! end of GOSUB frame
;  115     0409  1     : NOVALUE BAS$INIT_LINK =
;  116     0410  1
;  117     0411  1 !++
;  118     0412  1 ! FUNCTIONAL DESCRIPTION:
;  119     0413  1 !
;  120     0414  1 !       Check a BASIC-PLUS-2 RETURN statement to be sure that
;  121     0415  1 !       the return is being made from a GOSUB.  This is needed
;  122     0416  1 !       since GOSUB has no lexical scope.
;  123     0417  1 !
;  124     0418  1 ! FORMAL PARAMETERS:
;  125     0419  1 !
;  126     0420  1 !       NONE
;  127     0421  1 !
;  128     0422  1 ! IMPLICIT INPUTS:
;  129     0423  1 !
;  130     0424  1 !       The frame, as set up by BAS$INIT_GSB_R8.
;  131     0425  1 !
;  132     0426  1 ! IMPLICIT OUTPUTS:
;  133     0427  1 !
;  134     0428  1 !       NONE
;  135     0429  1 !
;  136     0430  1 ! ROUTINE VALUE:
;  137     0431  1 !
;  138     0432  1 !       NONE
;  139     0433  1 !
;  140     0434  1 ! COMPLETION CODES:
;  141     0435  1 !
;  142     0436  1 !       NONE
;  143     0437  1 !
;  144     0438  1 ! SIDE EFFECTS:
;  145     0439  1 !
;  146     0440  1 !       May signal an error
;  147     0441  1 !
;  148     0442  1 !--
;  149     0443  1
;  150     0444  2     BEGIN
;  151     0445  2
;  152     0446  2     BUILTIN
;  153     0447  2         FP,
;  154     0448  2         SP;
;  155     0449  2
;  156     0450  2     REGISTER
;  157     0451  2         FMP : REF BLOCK [0, BYTE] FIELD (BSF$FCD);
;  158     0452  2
;  159     0453  2 !+
;  160     0454  2 ! Give an error message if this RETURN does not correspond to
;  161     0455  2 ! a GOSUB.
;  162     0456  2 !-
;  163     0457  2     FMP = .FP;
;  164     0458  2
;  165     0459  2     IF (.FMP [BSF$B_PROC_CODE] NEQ BSF$K_PROC_GOSB) THEN BAS$$STOP (BAS$K_RETWITGOS);
;  166     0460  2
;  167     0461  2 !+
;  168     0462  2 ! All is ok, return to the compiled code, which will issue a
;  169     0463  2 ! RET instruction to return to the caller of BAS$INIT_GOSUB.
;  170     0464  2 !+
```

```
;  171          0465  1     END;                                    !of BAS$END_GSB_R8

                                                                     .TITLE  BAS$END_GSB
                                                                     .IDENT  \1-002\

                                                                     .EXTRN  BAS$$STOP, BAS$K_RETWITGOS

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

                                50              5D  D0 00000 BAS$END_GSB_R8::
                                                                     MOVL    FP, FMP                          ; 0457
                                06      E5      A0  91 00003         CMPB    -27(FMP), #6                     ; 0459
                                                0B  13 00007         BEQL    1$                               ;
                                7E      00G     8F  9A 00009         MOVZBL  #BAS$K_RETWITGOS, -(SP)          ;
                        00000000G   00          01  FB 0000D         CALLS   #1, BAS$$STOP                    ;
                                                    05 00014 1$:     RSB                                      ; 0465

; Routine Size:  21 bytes,    Routine Base:  _BAS$CODE + 0000

;  172          0466  1
;  173          0467  1 END
;  174          0468  1
;  175          0469  0 ELUDOM



;                                       PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  _BAS$CODE                         21  NOVEC,NOWRT,  RD ,  EXE,  SHR,  LCL,  REL,  CON,  PIC,ALIGN(2)



;                                       COMMAND QUALIFIERS

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

; Size:         21 code + 0 data bytes
; Run Time:         00:02.8
; Elapsed Time:     00:06.8
; Lines/CPU Min:    10158
; Lexemes/CPU-Min: 29068
; Memory Used:  29 pages
; Compilation Complete
```

BASENDDFS
LIS

BASERROR
LIS

BASENDDEF
LIS

BASEDIT
LIS

BASEND
LIS

BASEDIVP
LIS

BASEMULP
LIS

BASERRTXT
LIS

BASENDGSB
LIS