```
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**BASOPENDE

```
BBBBBBBB      AAAAAA      SSSSSSSS    000000    PPPPPPPP    EEEEEEEEEE  NN      NN  DDDDDDDD    EEEEEEEEEE
BBBBBBBB      AAAAAA      SSSSSSSS    000000    PPPPPPPP    EEEEEEEEEE  NN      NN  DDDDDDDD    EEEEEEEEEE
BB      BB   AA      AA   SS          00    00  PP      PP  EE          NN      NN  DD      DD  EE
BB      BB   AA      AA   SS          00    00  PP      PP  EE          NN      NN  DD      DD  EE
BB      BB   AA      AA   SS          00    00  PP      PP  EE          NNNN    NN  DD      DD  EE
BB      BB   AA      AA   SS          00    00  PP      PP  EE          NNNN    NN  DD      DD  EE
BBBBBBBB     AA      AA    SSSSSS     00    00  PPPPPPPP    EEEEEEEE    NN  NN  NN  DD      DD  EEEEEEEE
BBBBBBBB     AA      AA    SSSSSS     00    00  PPPPPPPP    EEEEEEEE    NN  NN  NN  DD      DD  EEEEEEEE
BB      BB   AAAAAAAAAA          SS  00    00  PP          EE          NN    NNNN  DD      DD  EE
BB      BB   AAAAAAAAAA          SS  00    00  PP          EE          NN    NNNN  DD      DD  EE
BB      BB   AA      AA          SS  00    00  PP          EE          NN      NN  DD      DD  EE          ....
BB      BB   AA      AA          SS  00    00  PP          EE          NN      NN  DD      DD  EE          ....
BBBBBBBB     AA      AA   SSSSSSSS      000000    PP          EEEEEEEEEE  NN      NN  DDDDDDDD    EEEEEEEEEE  ....
BBBBBBBB     AA      AA   SSSSSSSS      000000    PP          EEEEEEEEEE  NN      NN  DDDDDDDD    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 BAS$$OPEN_DEFLT (                                    !
;     2          0002  0                     IDENT = '1-041'                         ! File: BASOPENDE.B32 Edit:MDL1041
;     3          0003  0                     ) =
;     4          0004  1 BEGIN
;     5          0005  1 !
;     6          0006  1 !**************************************************************************************
;     7          0007  1 !*                                                                                    *
;     8          0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                           *
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;    16          0016  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY           *
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;    22          0022  1 !*                                                                                    *
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;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                           *
;    25          0025  1 !*                                                                                    *
;    26          0026  1 !*                                                                                    *
;    27          0027  1 !**************************************************************************************
;    28          0028  1 !
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 ! FACILITY:  BASIC-PLUS-2 I/O Processing
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module contains BAS$$OPEN_DEFLT, the routine which
;    36          0036  1 !       implicitly opens channel 0 for a BASIC-PLUS-2 program.
;    37          0037  1 !
;    38          0038  1 ! ENVIRONMENT:  VAX-11 User Mode
;    39          0039  1 !
;    40          0040  1 ! AUTHOR: John Sauter, CREATION DATE: 30-NOV-78
;    41          0041  1 !
;    42          0042  1 ! MODIFIED BY:
;    43          0043  1 !
;    44          0044  1 ! 1-001 - Original.  JBS 30-NOV-78
;    45          0045  1 ! 1-002 - Change REQUIRE file names from FOR... to OTS...  JBS 06-DEC-78
;    46          0046  1 ! 1-003 - Use symbols for LUN values for PRINT and INPUT.  JBS 07-DEC-78
;    47          0047  1 ! 1-004 - Change OPEN$K symbols to LUB$K symbols.  JBS 08-DEC-78
;    48          0048  1 ! 1-005 - Get LUB$K_PBUF_SIZ bytes for the prompt buffer.  JBS 12-DEC-78
;    49          0049  1 ! 1-006 - REQUIRE BASOPN to get default record length.  JBS 12-DEC-78
;    50          0050  1 ! 1-007 - Remove FILE_NAME_DESC, since BAS$$STOP_IO now gets the file
;    51          0051  1 !         name from the LUB.  JBS 12-DEC-78
;    52          0052  1 ! 1-008 - Use %REF to insure that the length argument to LIB$GET_VM is
;    53          0053  1 !         always a longword.  JBS 12-DEC-78
;    54          0054  1 ! 1-009 - Set up FAB fields RFM and ROP.  JBS 12-DEC-78
;    55          0055  1 ! 1-010 - Put attempted file name in the LUB in case the OPEN fails
;    56          0056  1 !         so badly that no name is returned.  JBS 19-DEC-78
;    57          0057  1 ! 1-011 - Put OPEN or CONNECT error status in the RAB in case it is not
```

```
;    58          0058  1 !                 stored by the OPEN, CREATE or CONNECT call.  JBS 19-DEC-78
;    59          0059  1 ! 1-012 - Set up margin and default margin.  JBS 20-DEC-78
;    60          0060  1 ! 1-013 - Set record buffer size to the default if this is a new file.
;    61          0061  1 !                 JBS 26-DEC-78
;    62          0062  1 ! 1-014 - Undo edit 11: make BAS$$STOP_IO extract the error code from
;    63          0063  1 !                 the FAB if it is not in the RAB.  In support of this,
;    64          0064  1 !                 we must tell BAS$STOP_IO whether the error happened on the
;    65          0065  1 !                 $OPEN (OR $CREATE) or the $CONNECT.  JBS 27-DEC-78
;    66          0066  1 ! 1-015 - Open the terminal in CR format rather than PRN format.
;    67          0067  1 !                 JBS 10-JAN-1979
;    68          0068  1 ! 1-016 - Set the TERM_FOR bit in the LUB to indicate terminal format.
;    69          0069  1 !                 JBS 11-JAN-1979
;    70          0070  1 ! 1-017 - Signal Internal OTS failure rather than Program lost-Sorry
;    71          0071  1 !                 on an OPEN to a wrong logical unit number.  JBS 15-JAN-1979
;    72          0072  1 ! 1-018 - Declare the OTS exit handler to purge I/O buffers and close
;    73          0073  1 !                 the file.  JBS 24-JAN-1979
;    74          0074  1 ! 1-019 - Put two dollar signs on the non-user entry points.  JBS 26-JAN-1979
;    75          0075  1 ! 1-020 - Don't set record size in RAB because reading an EOF will clear
;    76          0076  1 !                 it, even for fixed-length records.  JBS 31-JAN-1979
;    77          0077  1 ! 1-021 - Set SQO, since we will perform only sequential operations
;    78          0078  1 !                 on the PRINT and INPUT files.  JBS 14-FEB-1979
;    79          0079  1 ! 1-022 - Use BASIOERR.REQ to define the I/O error codes.  JBS 20-FEB-1979
;    80          0080  1 ! 1-023 - Set the margin based on the BLS field returned in the FAB by
;    81          0081  1 !                 OPEN, if the device being opened is a terminal.  JBS 22-FEB-1979
;    82          0082  1 ! 1-024 - Change BAS$$STOP to BAS$$STOP_IO, so that the channel number
;    83          0083  1 !                 gets reported with the error message.  JBS 17-APR-1979
;    84          0084  1 ! 1-025 - Do not set RAB$B_RAC, record level does.  JBS 14-MAY-1979
;    85          0085  1 ! 1-026 - Make the margin T6 bits.  JBS 30-MAY-1979
;    86          0086  1 ! 1-027 - Mark the LUBs OPENed as being terminal format.  JBS 31-MAY-1979
;    87          0087  1 ! 1-028 - Do not use locate-mode processing, since it causes problems
;    88          0088  1 !                 for BAS$MARGIN.  This is little loss, since RMS does not
;    89          0089  1 !                 really do locate-mode processing on process permanent files,
;    90          0090  1 !                 and channel 0 normally refers to process permanent files.
;    91          0091  1 !                 JBS 04-JUN-1979
;    92          0092  1 ! 1-029 - Set the language byte in the LUB, so this file can be
;    93          0093  1 !                 used only by BASIC programs.  This is no loss, since these
;    94          0094  1 !                 LUNs are only intended for use by BASIC anyway.  JBS 30-JUN-1979
;    95          0095  1 ! 1-030 - If the device is a terminal, change it to PRN format,
;    96          0096  1 !                 so it can be forcible.  JBS 10-JUL-1979
;    97          0097  1 ! 1-031 - If the LUB is opened with PRN format, mark it so.  JBS 12-JUL-1979
;    98          0098  1 ! 1-032 - PRN format requires VFC.  JBS 17-JUL-1979
;    99          0099  1 ! 1-033 - Change BAS$INPUT and BAS$PRINT to SYS$INPUT and SYS$OUTPUT.
;   100          0100  1 !                 JBS 30-JUL-1979
;   101          0101  1 ! 1-034 - Use the BASIC-specific exit handler.  JBS 17-AUG-1979
;   102          0102  1 ! 1-035 - Make the initial margin on disk files be LUB$K_D_MARGIN, and on
;   103          0103  1 !                 terminals be infinite.  JBS 24-AUG-1979
;   104          0104  1 ! 1-036 - Set up LUB$A_UBF.  JBS 15-NOV-1979
;   105          0105  1 ! 1-037 - Don't set the CIF or EOF bits in the FAB and APPEND bits in the LUB.
;   106          0106  1 !                 DGP 26-Feb-80
;   107          0107  1 ! 1-038 - Set FAB$B_RAT and LUB$B_RAT so that BAS$REC_RSLO will add CR to
;   108          0108  1 !                 records input from command files.  PLL 18-Aug-81
;   109          0109  1 ! 1-039 - Don't set FAB$B_RAT, RMS sets it.  PLL 19-Nov-81
;   110          0110  1 ! 1-040 - LIB$STOP should be declared EXTERNAL.  PLL 20-Nov-81
;   111          0111  1 ! 1-041 - only set PRN for the output side of channel 0.  MDL 2-Sep-1983
;   112          0112  1 !--
;   113          0113  1
;   114          0114  1 !<BLF/PAGE>
```

```
;  116          0115  1 !
;  117          0116  1 ! SWITCHES:
;  118          0117  1 !
;  119          0118  1
;  120          0119  1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;  121          0120  1
;  122          0121  1 !
;  123          0122  1 ! LINKAGES:
;  124          0123  1 !
;  125          0124  1
;  126          0125  1 REQUIRE 'RTLIN:OTSLNK';                         ! define linkages
;  127          0554  1
;  128          0555  1 !
;  129          0556  1 ! TABLE OF CONTENTS:
;  130          0557  1 !
;  131          0558  1
;  132          0559  1 FORWARD ROUTINE
;  133          0560  1     BAS$$OPEN_DEFLT : CALL_CCB NOVALUE;         ! Do a default open
;  134          0561  1
;  135          0562  1 !
;  136          0563  1 ! INCLUDE FILES:
;  137          0564  1 !
;  138          0565  1
;  139          0566  1 REQUIRE 'RTLIN:RTLPSECT';                      ! Macros for defining psects
;  140          0661  1
;  141          0662  1 REQUIRE 'RTLML:OTSLUB';                        ! Logical Unit Block definitions
;  142          0802  1
;  143          0803  1 REQUIRE 'RTLIN:BASOPN';                        ! OPEN literals
;  144          0851  1
;  145          0852  1 REQUIRE 'RTLIN:BASIOERR';                      ! Define I/O error codes
;  146          0905  1
;  147          0906  1 LIBRARY 'RTLSTARLE';                           ! system definitions
;  148          0907  1
;  149          0908  1 !
;  150          0909  1 ! MACROS:
;  151          0910  1 !
;  152          0911  1 !       NONE
;  153          0912  1 !
;  154          0913  1 ! EQUATED SYMBOLS:
;  155          0914  1 !
;  156          0915  1 !       NONE
;  157          0916  1 !
;  158          0917  1 ! PSECTS:
;  159          0918  1 !
;  160          0919  1 DECLARE_PSECTS (BAS);                          ! Declare psects for BAS$ facility
;  161          0920  1 !
;  162          0921  1 ! OWN STORAGE:
;  163          0922  1 !
;  164          0923  1 !       NONE
;  165          0924  1 !
;  166          0925  1 ! EXTERNAL REFERENCES:
;  167          0926  1 !
;  168          0927  1
;  169          0928  1 EXTERNAL ROUTINE
;  170          0929  1     LIB$STOP : NOVALUE,                        ! signal fatal error
;  171          0930  1     BAS$$STOP_IO : NOVALUE,                    ! signals fatal I/O error
;  172          0931  1     LIB$GET_VM,                                ! get virtual storage
```

```
;  173          0932  1      BAS$$DECL_EXITH : NOVALUE;                       ! Declare BASIC exit handler
;  174          0933  1
;  175          0934  1  EXTERNAL
;  176          0935  1      BAS$$L_XIT_LOCK;                                ! True if exit handler already declared
;  177          0936  1
;  178          0937  1  !+
;  179          0938  1  ! The following are the BASIC error codes used in this module.
;  180          0939  1  !-
;  181          0940  1
;  182          0941  1  EXTERNAL LITERAL
;  183          0942  1      BAS$K_IO_CHAALR : UNSIGNED (8),                 ! I/O channel already open
;  184          0943  1      BAS$K_SYNERR : UNSIGNED (8),                    ! Syntax error
;  185          0944  1      BAS$K_FATSYSIO : UNSIGNED (8),                  ! Fatal system I/O error
;  186          0945  1      BAS$K_FILATTNOT : UNSIGNED (8),                 ! File attributes not matched
;  187          0946  1      BAS$K_ILLUSA : UNSIGNED (8),                    ! Illegal Usage
;  188          0947  1      BAS$K_MAXMEMEXC : UNSIGNED (8);                 ! Maximum memory exceeded
;  189          0948  1
;  190          0949  1  EXTERNAL LITERAL
;  191          0950  1      OTS$_FATINTERR;                                 ! OTS Fatal internal error
;  192          0951  1
```

```
;  194          0952  1 GLOBAL ROUTINE BAS$$OPEN_DEFLT                    ! Default open
;  195          0953  1     : NOVALUE CALL_CCB =
;  196          0954  1
;  197          0955  1 !++
;  198          0956  1 ! FUNCTIONAL DESCRIPTION:
;  199          0957  1 !
;  200          0958  1 !       Do a default open.  This routine is called when an input or
;  201          0959  1 !       output statement is done to channel 0 ( = a negative LUN) and
;  202          0960  1 !       it is not open.  This routine opens the LUN as a terminal format
;  203          0961  1 !       file.
;  204          0962  1 !
;  205          0963  1 ! FORMAL PARAMETERS:
;  206          0964  1 !
;  207          0965  1 !       NONE
;  208          0966  1 !
;  209          0967  1 ! IMPLICIT INPUTS:
;  210          0968  1 !
;  211          0969  1 !       The CCB, which is passed in a register.
;  212          0970  1 !
;  213          0971  1 ! IMPLICIT OUTPUTS:
;  214          0972  1 !
;  215          0973  1 !       A lot of fields in the LUB.
;  216          0974  1 !
;  217          0975  1 ! ROUTINE VALUE:
;  218          0976  1 ! COMPLETION CODES:
;  219          0977  1 !
;  220          0978  1 !       NONE
;  221          0979  1 !
;  222          0980  1 ! SIDE EFFECTS:
;  223          0981  1 !
;  224          0982  1 !       Either opens a file, thus permitting use of channel 0
;  225          0983  1 !       by BASIC I/O statements, or calls BAS$$STOP_IO, thus not
;  226          0984  1 !       returning to its caller.
;  227          0985  1 !
;  228          0986  1 !--
;  229          0987  1
;  230          0988  2     BEGIN
;  231          0989  2
;  232          0990  2     EXTERNAL REGISTER
;  233          0991  2         CCB : REF BLOCK [0, BYTE];
;  234          0992  2
;  235          0993  2     LOCAL
;  236          0994  2         OPEN_STATUS,                                ! RMS status returned by $OPEN or $CREATE
;  237          0995  2         CONNECT_STATUS,                             ! RMS status returned by $CONNECT
;  238          0996  2         FAB_BLOCK : BLOCK [FAB$C_BLN, BYTE],        ! local FAB
;  239          0997  2         FAB : REF BLOCK [FAB$C_BLN, BYTE],          ! pointer to FAB
;  240          0998  2         NAM_BLOCK : BLOCK [NAM$C_BLN, BYTE],        ! local NAM block
;  241          0999  2         XAB_BLOCK : BLOCK [XAB$C_FHCLEN, BYTE],     ! local XABFHC block
;  242          1000  2         FILE_NAME : BLOCK [NAM$C_MAXRSS, BYTE];     ! text for file name
;  243          1001  2
;  244          1002  2 !+
;  245          1003  2 ! In BASIC, only channel 0 can go through default open.  This maps
;  246          1004  2 ! into one LUN for INPUT, LINPUT and INPUT LINE, and another LUN
;  247          1005  2 ! for PRINT and PRINT USING.  In the code below, we first do the
;  248          1006  2 ! common setups, and then a SELECTONE statement separates the
;  249          1007  2 ! setups for the two LUNs.
;  250          1008  2 !-
```

```
;  251          1009  2      FAB = FAB_BLOCK;
;  252          1010  2      CH$FILL (0, FAB$C_BLN, .FAB);                   ! clear the FAB
;  253          1011  2      FAB [FAB$B_BID] = FAB$C_BID;                    ! this is a FAB
;  254          1012  2      FAB [FAB$B_BLN] = FAB$C_BLN;                    ! length of a FAB
;  255          1013  2      FAB [FAB$B_RFM] = FAB$C_VAR;                    ! Variable length records
;  256          1014  2      FAB [FAB$V_CR] = 1;                             ! Assume LF before record and CR after
;  257          1015  2      FAB [FAB$V_SQO] = 1;                            ! Only sequential operations
;  258          1016  2  !+
;  259          1017  2  ! Set up the LUB.
;  260          1018  2  !-
;  261          1019  2      CCB [LUB$A_FAB] = .FAB;                         ! Store FAB pointer in the LUB
;  262          1020  2      CCB [LUB$V_FORMATTED] = 1;                      ! This file must be formatted
;  263          1021  2      CCB [LUB$L_LOG_RECNO] = 1;                      ! We are on record number 1
;  264          1022  2      CCB [LUB$B_ORGAN] = LUB$K_ORG_TERMI;            ! terminal organization
;  265          1023  2      CCB [LUB$B_RAT] = FAB [FAB$B_RAT];              ! store FAB record attribute
;  266          1024  2  !+
;  267          1025  2  ! Set up the right margin and default right margin.
;  268          1026  2  !-
;  269          1027  2      CCB [LUB$W_D_MARGIN] = LUB$K_D_MARGIN;
;  270          1028  2      CCB [LUB$W_R_MARGIN] = .CCB [LUB$W_D_MARGIN];
;  271          1029  2      CCB [LUB$V_NOMARGIN] = 0;
;  272          1030  2      CCB [LUB$V_UNIT_0] = 1;                         ! This is BASIC channel 0
;  273          1031  2      CCB [LUB$V_TERM_FOR] = 1;                       ! File is in terminal format
;  274          1032  2  !+
;  275          1033  2  ! Set up the RAB
;  276          1034  2  !-
;  277          1035  2      CCB [RAB$B_BID] = RAB$C_BID;                    ! This is a RAB
;  278          1036  2      CCB [RAB$B_BLN] = RAB$C_BLN;                    ! Length of a RAB
;  279          1037  2      CCB [RAB$V_LOC] = 0;                            ! Do not do locate-mode GETs
;  280          1038  2      CCB [RAB$L_FAB] = .FAB;                         ! Store pointer to FAB
;  281          1039  2  !+
;  282          1040  2  ! Set up the NAM block
;  283          1041  2  !-
;  284          1042  2      CH$FILL (0, NAM$C_BLN, NAM_BLOCK);              ! Clear the NAM block
;  285          1043  2      NAM_BLOCK [NAM$B_BID] = NAM$C_BID;              ! This is a NAM block
;  286          1044  2      NAM_BLOCK [NAM$B_BLN] = NAM$C_BLN;              ! Length of a NAM block
;  287          1045  2  !+
;  288          1046  2  ! Set up file name pointers and lengths
;  289          1047  2  !-
;  290          1048  2      NAM_BLOCK [NAM$L_RSA] = NAM_BLOCK [NAM$L_ESA] = FILE_NAME;
;  291          1049  2      NAM_BLOCK [NAM$B_RSS] = NAM_BLOCK [NAM$B_ESS] = NAM$C_MAXRSS;
;  292          1050  2      FAB [FAB$L_NAM] = NAM_BLOCK;                    ! Store pointer in FAB
;  293          1051  2  !+
;  294          1052  2  ! Initialize the FHC XAB.
;  295          1053  2  !-
;  296          1054  2      CH$FILL (0, XAB$C_FHCLEN, XAB_BLOCK);           ! Clear XAB
;  297          1055  2      XAB_BLOCK [XAB$B_COD] = XAB$C_FHC;              ! This is an FHC XAB
;  298          1056  2      XAB_BLOCK [XAB$B_BLN] = XAB$C_FHCLEN;           ! Length of an FHC XAB
;  299          1057  2      FAB [FAB$L_XAB] = XAB_BLOCK;                    ! Store pointer in FAB
;  300          1058  2  !+
;  301          1059  2  ! The remainder of the initialization is done differently depending
;  302          1060  2  ! on whether this is an input-type default open or an output-type
;  303          1061  2  ! default open.
;  304          1062  2  !-
;  305          1063  2
;  306          1064  2      SELECTONE (.CCB [LUB$W_LUN]) OF
;  307          1065  2          SET
```

```
;  308          1066  2
;  309          1067  2          [LUB$K_LUN_INPU] :                      ! INPUT statement
;  310          1068  2              BEGIN
;  311          1069  2      !+
;  312          1070  2      ! Set up a file name of SYS$INPUT:SYSINPUT.DAT
;  313          1071  2      !-
;  314          1072  2                  FAB [FAB$B_DNS] = %CHARCOUNT ('SYSINPUT.DAT');
;  315          1073  2                  FAB [FAB$L_DNA] = UPLIT ('SYSINPUT.DAT');
;  316          1074  2                  FAB [FAB$B_FNS] = %CHARCOUNT ('SYS$INPUT:');
;  317          1075  2                  FAB [FAB$L_FNA] = UPLIT ('SYS$INPUT:');
;  318          1076  2                  CCB [LUB$B_RSL] = %CHARCOUNT ('SYS$INPUT:SYSINPUT.DAT');
;  319          1077  2                  CCB [LUB$A_RSN] = UPLIT ('SYS$INPUT:SYSINPUT.DAT');
;  320          1078  2                  CCB [RAB$V_PMT] = 1;                ! Use prompt buffer on read
;  321          1079  2      !+
;  322          1080  2      ! Point the RAB to the Prompt buffer.
;  323          1081  2      ! It is allocated dynamically.
;  324          1082  2      ! It must be deallocated when the file is closed.
;  325          1083  2      !-
;  326          1084  4                  BEGIN
;  327          1085  4
;  328          1086  4                  LOCAL
;  329          1087  4                      GET_VM_RESULT;
;  330          1088  4
;  331          1089  5                  IF ( NOT (GET_VM_RESULT = LIB$GET_VM (%REF (LUB$K_PBUF_SIZ), CCB [RAB$L_PBF])))
;  332          1090  4                  THEN
;  333          1091  4                      BAS$$STOP_IO (BAS$K_MAXMEMEXC);
;  334          1092  4
;  335          1093  3                  END;
;  336          1094  3                  CCB [RAB$B_PSZ] = 0;                ! Will be filled in as needed
;  337          1095  3                  FAB [FAB$V_GET] = 1;                ! only allow reading from this LUN
;  338          1096  3                  FAB [FAB$V_SHRGET] = 1;             ! allow others to read also
;  339          1097  3                  CCB [LUB$V_READ_ONLY] = 1;          ! We will only read from this LUN
;  340          1098  3                  CCB [LUB$V_OLD_FILE] = 1;           ! File must already exist
;  341          1099  3                  END;
;  342          1100  2      !+
;  343          1101  2      ! Default OPEN for BASIC PRINT statement.
;  344          1102  2      !-
;  345          1103  2
;  346          1104  2          [LUB$K_LUN_BPRI] :                      ! PRINT statement
;  347          1105  2              BEGIN
;  348          1106  2      !+
;  349          1107  2      ! Set the file name to SYS$OUTPUT:SYSOUTPUT.DAT
;  350          1108  2      !-
;  351          1109  2                  FAB [FAB$B_DNS] = %CHARCOUNT ('SYSOUTPUT.DAT');
;  352          1110  2                  FAB [FAB$L_DNA] = UPLIT ('SYSOUTPUT.DAT');
;  353          1111  2                  FAB [FAB$B_FNS] = %CHARCOUNT ('SYS$OUTPUT:');
;  354          1112  2                  FAB [FAB$L_FNA] = UPLIT ('SYS$OUTPUT:');
;  355          1113  2                  CCB [LUB$B_RSL] = %CHARCOUNT ('SYS$OUTPUT:SYSOUTPUT.DAT');
;  356          1114  2                  CCB [LUB$A_RSN] = UPLIT ('SYS$OUTPUT:SYSOUTPUT.DAT');
;  357          1115  2                  FAB [FAB$V_PUT] = 1;                ! Only allow PUTs to this LUN
;  358          1116  2                  FAB [FAB$V_NIL] = 1;                ! no others may access this file
;  359          1117  2                  END;
;  360          1118  2
;  361          1119  2          [OTHERWISE] :
;  362          1120  2              LIB$STOP (OTS$_FATINTERR);
;  363          1121  2          TES;
;  364          1122  2
```

```
;  365          1123  2 !<BLF/PAGE>
```

```
;  367          1124  2 !+
;  368          1125  2 ! Now open the file.
;  369          1126  2 !-
;  370          1127  2     OPEN_STATUS = (IF (.CCB [LUB$V_OLD_FILE]) THEN $OPEN (FAB = .FAB) ELSE $CREATE (FAB = .FAB));
;  371          1128  2 !+
;  372          1129  2 ! If the OPEN succeeded, check for a terminal format file on a terminal device,
;  373          1130  2 ! and change to PRN format if so.  This is so that the terminal is forcible.
;  374          1131  2 !-
;  375          1132  2
;  376          1133  3     IF (.OPEN_STATUS)
;  377          1134  2     THEN
;  378          1135  3         BEGIN
;  379          1136  3
;  380          1137  4         IF ((.FAB [FAB$L_DEV] AND DEV$M_TRM) NEQ 0)
;  381          1138  3         THEN
;  382          1139  4             BEGIN
;  383          1140  4
;  384          1141  4 !+
;  385          1142  4 ! only reset to PRN if this is the output side of channel 0.
;  386          1143  4 ! an attempt to do so on a file opened for input results in an error from RMS.
;  387          1144  4 !-
;  388          1145  4
;  389          1146  5             IF (.CCB [LUB$W_LUN] EQL LUB$K_LUN_BPRI)
;  390          1147  4             THEN
;  391          1148  5                 BEGIN
;  392          1149  5
;  393          1150  5 !+
;  394          1151  5 ! Close and re-open the FAB, since we do not have $MODIFY.
;  395          1152  5 !-
;  396          1153  5
;  397          1154  5                 IF ( NOT $CLOSE (FAB = .FAB)) THEN BAS$$STOP_IO (BAS$K_IOERR_REC);
;  398          1155  5
;  399          1156  5 !+
;  400          1157  5 ! Turn off CR and turn on PRN.
;  401          1158  5 !-
;  402          1159  5                 FAB [FAB$V_CR] = 0;
;  403          1160  5                 FAB [FAB$V_PRN] = 1;
;  404          1161  5                 CCB [RAB$L_RHB] = CCB [LUB$W_BAS_VFC];
;  405          1162  5                 FAB [FAB$B_RFM] = FAB$K_VFC;
;  406          1163  5 !+
;  407          1164  5 ! Re-open the user's file.
;  408          1165  5 !-
;  409          1166  5                 OPEN_STATUS = $OPEN (FAB = .FAB);
;  410          1167  4                 END;
;  411          1168  4
;  412          1169  4 !+
;  413          1170  4 ! indicate a terminal device is forcible (both input & output sides)
;  414          1171  4 !-
;  415          1172  4             CCB [LUB$V_FORCIBLE] = 1;
;  416          1173  3             END;
;  417          1174  3
;  418          1175  2         END;
;  419          1176  2
;  420          1177  2     IF (.OPEN_STATUS) THEN CONNECT_STATUS = $CONNECT (RAB = .CCB);
;  421          1178  2
;  422          1179  2 !+
;  423          1180  2 ! Store away the Directory ID in case CLOSE needs to delete the file.
```

```
;  424          1181  2 ! Also save the IFI.
;  425          1182  2 !-
;  426          1183  2     CH$MOVE (NAM$S_DID, NAM_BLOCK [NAM$W_DID], CCB [LUB$W_DID]);
;  427          1184  2     CCB [LUB$W_IFI] = .FAB [FAB$W_IFI];
;  428          1185  2 !+
;  429          1186  2 ! If we have an expanded name string or a resultant name string, point
;  430          1187  2 ! the LUB to it instead of the user-supplied name, to improve error
;  431          1188  2 ! messages.
;  432          1189  2 !-
;  433          1190  2
;  434          1191  3     IF (.NAM_BLOCK [NAM$B_RSL] NEQA 0)
;  435          1192  2     THEN
;  436          1193  3         BEGIN
;  437          1194  3         CCB [LUB$A_RSN] = .NAM_BLOCK [NAM$L_RSA];
;  438          1195  3         CCB [LUB$B_RSL] = .NAM_BLOCK [NAM$B_RSL];
;  439          1196  3         END
;  440          1197  2     ELSE
;  441          1198  2
;  442          1199  3         IF (.NAM_BLOCK [NAM$B_ESL] NEQA 0)
;  443          1200  2         THEN
;  444          1201  3             BEGIN
;  445          1202  3             CCB [LUB$A_RSN] = .NAM_BLOCK [NAM$L_ESA];
;  446          1203  3             CCB [LUB$B_RSL] = .NAM_BLOCK [NAM$B_ESL];
;  447          1204  2             END;
;  448          1205  2
;  449          1206  2 !+
;  450          1207  2 ! If OPEN or CREATE got an error, give an appropriate error message.
;  451          1208  2 !-
;  452          1209  2
;  453          1210  2     IF ( NOT .OPEN_STATUS) THEN BAS$$STOP_IO (BAS$K_IOERR_OPE);
;  454          1211  2
;  455          1212  2 !+
;  456          1213  2 ! If CONNECT got an error, give an appropriate error message.
;  457          1214  2 !-
;  458          1215  2
;  459          1216  2     IF ( NOT .CONNECT_STATUS) THEN BAS$$STOP_IO (BAS$K_IOERR_CON);
;  460          1217  2
;  461          1218  2 !+
;  462          1219  2 ! If the device opened is a terminal, set the TERM_DEV bit in the LUB
;  463          1220  2 ! and set the default margin based on the width of the terminal, which is
;  464          1221  2 ! returned in the BLS field of the FAB.
;  465          1222  2 !-
;  466          1223  2
;  467          1224  3     IF ((.FAB [FAB$L_DEV] AND DEV$M_TRM) NEQ 0)
;  468          1225  2     THEN
;  469          1226  3         BEGIN
;  470          1227  3         CCB [LUB$V_TERM_DEV] = 1;
;  471          1228  3         CCB [LUB$W_D_MARGIN] = .FAB [FAB$W_BLS];
;  472          1229  3         CCB [LUB$W_R_MARGIN] = 0;
;  473          1230  3         CCB [LUB$V_NOMARGIN] = 1;
;  474          1231  2         END;
;  475          1232  2
;  476          1233  2 !+
;  477          1234  2 ! If the file just opened was already in existence, perform
;  478          1235  2 ! consistency checks between the file's attributes and the
;  479          1236  2 ! default parameters.
;  480          1237  2 !-
```

```
;  481          1238  2
;  482          1239  2          IF (.CCB [LUB$V_OLD_FILE])
;  483          1240  2          THEN
;  484          1241  2              BEGIN
;  485          1242  2      !+
;  486          1243  2      ! Organization check: must be sequential.
;  487          1244  2      !-
;  488          1245  2
;  489          1246  2              IF (.FAB [FAB$B_ORG] NEQ FAB$C_SEQ) THEN BAS$$STOP_IO (BAS$K_FILATTNOT);
;  490          1247  2
;  491          1248  2      !+
;  492          1249  2      ! If the file is in PRN format, record the fact.
;  493          1250  2      !-
;  494          1251  2
;  495          1252  2              IF (.FAB [FAB$V_PRN]) THEN CCB [LUB$V_PRN] = 1;
;  496          1253  2
;  497          1254  2      !+
;  498          1255  2      ! Compute the record size and store it in the LUB.
;  499          1256  2      !-
;  500          1257  2              CCB [LUB$W_RBUF_SIZE] = MAXU (.FAB [FAB$W_MRS], .XAB_BLOCK [XAB$W_LRL], BAS$K_DEF_RECLE);
;  501          1258  2              END                                     ! end of old file processing
;  502          1259  2          ELSE
;  503          1260  2              BEGIN
;  504          1261  2      !+
;  505          1262  2      ! The following processing is done only if this is a new file.
;  506          1263  2      !-
;  507          1264  2      !+
;  508          1265  2      ! Set the record buffer size to the default.
;  509          1266  2      !-
;  510          1267  2              CCB [LUB$W_RBUF_SIZE] = BAS$K_DEF_RECLE;
;  511          1268  2              END;                                    ! end of new file processing
;  512          1269  2
;  513          1270  2      !+
;  514          1271  2      ! Don't permit the 'undefined' record format, since it can be used
;  515          1272  2      ! only with block I/O.
;  516          1273  2      !-
;  517          1274  2
;  518          1275  2          SELECTONE (.FAB [FAB$B_RFM]) OF
;  519          1276  2              SET
;  520          1277  2
;  521          1278  2              [FAB$C_FIX, FAB$C_VAR, FAB$C_VFC] :     ! ok, do nothing.
;  522          1279  2              ;
;  523          1280  2
;  524          1281  2              [OTHERWISE] :
;  525          1282  2                  BAS$$STOP_IO (BAS$K_ILLUSA);
;  526          1283  2              TES;
;  527          1284  2
;  528          1285  2      !+
;  529          1286  2      ! Allocate a record buffer.
;  530          1287  2      !-
;  531          1288  3          BEGIN
;  532          1289  3
;  533          1290  3          LOCAL
;  534          1291  3              GET_VM_RESULT;
;  535          1292  3
;  536          1293  3          GET_VM_RESULT = LIB$GET_VM (%REF (.CCB [LUB$W_RBUF_SIZE]), CCB [LUB$A_RBUF_ADR]);
;  537          1294  3
```

```
;   538          1295  3     IF ( NOT .GET_VM_RESULT) THEN BAS$$STOP_IO (BAS$K_MAXMEMEXC);
;   539          1296
;   540          1297  2     END;
;   541          1298  2 !+
;   542          1299  2 ! Allocate dynamic storage for the file name so that the name can be
;   543          1300  2 ! used later for error diagnostics.  Point the LUB to the new location.
;   544          1301  2 ! Indicate that the space pointed to must be deallocated when the file
;   545          1302  2 ! is closed.
;   546          1303  2 !-
;   547          1304  3     BEGIN
;   548          1305  3
;   549          1306  3     LOCAL
;   550          1307  3         GET_VM_RESULT,
;   551          1308  3         OLD_ADDRESS;
;   552          1309  3
;   553          1310  3     OLD_ADDRESS = .CCB [LUB$A_RSN];
;   554          1311  3     GET_VM_RESULT = LIB$GET_VM (%REF (.CCB [LUB$B_RSL]), CCB [LUB$A_RSN]);
;   555          1312  3
;   556          1313  3     IF ( NOT .GET_VM_RESULT) THEN LIB$STOP (.GET_VM_RESULT);
;   557          1314  3
;   558          1315  3     CH$MOVE (.CCB [LUB$B_RSL], .OLD_ADDRESS, .CCB [LUB$A_RSN]);
;   559          1316  3     CCB [LUB$V_VIRT_RSN] = 1;
;   560          1317  2     END;
;   561          1318  2 !+
;   562          1319  2 ! Set those RAB fields that seldom change.
;   563          1320  2 !-
;   564          1321  2     CCB [RAB$L_UBF] = .CCB [LUB$A_RBUF_ADR];
;   565          1322  2     CCB [RAB$W_USZ] = .CCB [LUB$W_RBUF_SIZE];
;   566          1323  2     CCB [LUB$A_UBF] = .CCB [LUB$A_RBUF_ADR];
;   567          1324  2 !+
;   568          1325  2 ! Clear LUB$A_FAB to indicate that the FAB is no longer present.
;   569          1326  2 !-
;   570          1327  2     CCB [LUB$A_FAB] = 0;
;   571          1328  2 !+
;   572          1329  2 ! Indicate that the file is now open for BASIC.
;   573          1330  2 !-
;   574          1331  2     CCB [LUB$B_LANGUAGE] = LUB$K_LANG_BAS;
;   575          1332  2     CCB [LUB$V_OPENED] = 1;
;   576          1333  2 !+
;   577          1334  2 ! Declare the BASIC exit handler to purge I/O buffers and close the
;   578          1335  2 ! file when the image exits.
;   579          1336  2 !-
;   580          1337  2
;   581          1338  2     IF ( NOT BAS$$L_XIT_LOCK) THEN BAS$$DECL_EXITH ();
;   582          1339  2
;   583          1340  2     RETURN;
;   584          1341  1     END;                                    ! of routine BAS$$OPEN_DEFLT


                                                                    .TITLE  BAS$$OPEN_DEFLT
                                                                    .IDENT  \1-041\

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

                    54  41  44  2E  54  55  50  4E  49  53  59  53  00000 P.AAA:  .ASCII  \SYSINPUT.DAT\                          ;
                    00  00  3A  54  55  50  4E  49  24  53  59  53  0000C P.AAB:  .ASCII  \SYS$INPUT:\<0><0>                      ;
4E  49  53  59  53  3A  54  55  50  4E  49  24  53  59  53  00018 P.AAC:  .ASCII  \SYS$INPUT:SYSINPUT.DAT\<0><0>               ;
```

```
                                                
```

```
        FFF9    8F                  50  B1 000AB         CMPW    R0, #-7                          ; 1067
                                    4F  12 000B0         BNEQ    2$                               ;
          30    A6        FEE6      CF  9E 000B2         MOVAB   P.AAA, 48(FAB)                   ; 1073
          34    A6        0C0A      8F  B0 000B8         MOVW    #3082, 52(FAB)                   ; 1074
          2C    A6        FEE6      CF  9E 000BE         MOVAB   P.AAB, 44(FAB)                   ; 1075
          F7    AB                  16  90 000C4         MOVB    #22, -9(CCB)                     ; 1076
          F8    AB        FEE8      CF  9E 000C8         MOVAB   P.AAC, -8(CCB)                   ; 1077
          07    AB          40      8F  88 000CE         BISB2   #64, 7(CCB)                      ; 1078
                            30      AB  9F 000D3         PUSHAB  48(CCB)                          ; 1089
          04    AE          50      8F  9A 000D6         MOVZBL  #80, 4(SP)                       ;
                            04      AE  9F 000DB         PUSHAB  4(SP)                            ;
   00000000G    00                  02  FB 000DE         CALLS   #2, LIB$GET_VM                   ;
                0B                  50  E8 000E5         BLBS    GET_VM_RESULT, 1$                ;
                7E         00G      8F  9A 000E8         MOVZBL  #BAS$K_MAXMEMEXC, -(SP)          ; 1091
   00000000G    00                  01  FB 000EC         CALLS   #1, BAS$$STOP_IO                 ;
                            34      AB  94 000F3  1$:    CLRB    52(CCB)                          ; 1094
          16    A6        0202      8F  A8 000F6         BISW2   #514, 22(FAB)                    ; 1096
                67                  0C  88 000FC         BISB2   #12, (R7)                        ; 1098
                                    38  11 000FF         BRB     4$                               ; 1064
        FFF8    8F                  50  B1 00101  2$:    CMPW    R0, #-8                          ; 1104
                                    24  12 00106         BNEQ    3$                               ;
          30    A6        FEC0      CF  9E 00108         MOVAB   P.AAD, 48(FAB)                   ; 1110
          34    A6        0D0B      8F  B0 0010E         MOVW    #3339, 52(FAB)                   ; 1111
          2C    A6        FEC4      CF  9E 00114         MOVAB   P.AAE, 44(FAB)                   ; 1112
          F7    AB                  18  90 0011A         MOVB    #24, -9(CCB)                     ; 1113
          F8    AB        FEC6      CF  9E 0011E         MOVAB   P.AAF, -8(CCB)                   ; 1114
          16    A6        2001      8F  A8 00124         BISW2   #8193, 22(FAB)                   ; 1116
                                    0D  11 0012A         BRB     4$                               ; 1064
                     00000000G      8F  DD 0012C  3$:    PUSHL   #OTS$_FATINTERR                  ; 1120
   00000000G    00                  01  FB 00132         CALLS   #1, LIB$STOP                     ;
0B              67                  03  E1 00139  4$:    BBC     #3, (R7), 5$                     ; 1127
                                    56  DD 0013D         PUSHL   FAB                              ;
   00000000G    00                  01  FB 0013F         CALLS   #1, SYS$OPEN                     ;
                                    09  11 00146         BRB     6$                               ;
                                    56  DD 00148  5$:    PUSHL   FAB                              ;
   00000000G    00                  01  FB 0014A         CALLS   #1, SYS$CREATE                   ;
                5A                  50  D0 00151  6$:    MOVL    R0, OPEN_STATUS                  ;
                51                  5A  E9 00154         BLBC    OPEN_STATUS, 10$                 ; 1133
3D        40    A6                  02  E1 00157         BBC     #2, 64(FAB), 9$                  ; 1137
        FFF8    8F          C6      AB  B1 0015C         CMPW    -58(CCB), #-8                    ; 1146
                                    31  12 00162         BNEQ    8$                               ;
                                    56  DD 00164         PUSHL   FAB                              ; 1154
   00000000G    00                  01  FB 00166         CALLS   #1, SYS$CLOSE                    ;
                0A                  50  E8 0016D         BLBS    R0, 7$                           ;
                7E                  01  CE 00170         MNEGL   #1, -(SP)                        ;
   00000000G    00                  01  FB 00173         CALLS   #1, BAS$$STOP_IO                 ;
                69                  02  8A 0017A  7$:    BICB2   #2, (R9)                         ; 1159
                69                  04  88 0017D         BISB2   #4, (R9)                         ; 1160
          2C    AB          DA      AB  9E 00180         MOVAB   -38(R11), 44(CCB)                ; 1161
          1F    A6                  03  90 00185         MOVB    #3, 31(FAB)                      ; 1162
                                    56  DD 00189         PUSHL   FAB                              ; 1166
   00000000G    00                  01  FB 0018B         CALLS   #1, SYS$OPEN                     ;
                5A                  50  D0 00192         MOVL    R0, OPEN_STATUS                  ;
                68          40      8F  88 00195  8$:    BISB2   #64, (R8)                        ; 1172
                0C                  5A  E9 00199  9$:    BLBC    OPEN_STATUS, 10$                 ; 1177
                                    5B  DD 0019C         PUSHL   CCB                              ;
   00000000G    00                  01  FB 0019E         CALLS   #1, SYS$CONNECT                  ;
```

```
                        6E          50  D0 001A5          MOVL     R0, CONNECT_STATUS              ;
     F0    AB    FF7A   CD          06  28 001A8  10$:    MOVC3    #6, NAM_BLOCK+42, -16(CCB)      ; 1183
                   D0   AB    02    A6  B0 001AF          MOVW     2(FAB), -48(CCB)                ; 1184
                   50       FF53    CD  9A 001B4          MOVZBL   NAM_BLOCK+3, R0                 ; 1191
                                    08  13 001B9          BEQL     11$                             ;
                   F8   AB  FF54    CD  D0 001BB          MOVL     NAM_BLOCK+4, -8(CCB)            ; 1194
                                    0D  11 001C1          BRB      12$                             ; 1195
                   50       FF5B    CD  9A 001C3  11$:    MOVZBL   NAM_BLOCK+11, R0                ; 1199
                                    0A  13 001C8          BEQL     13$                             ;
                   F8   AB  FF5C    CD  D0 001CA          MOVL     NAM_BLOCK+12, -8(CCB)           ; 1202
                   F7   AB          50  90 001D0  12$:    MOVB     R0, -9(CCB)                     ; 1203
                        0A          5A  E8 001D4  13$:    BLBS     OPEN_STATUS, 14$                ; 1210
                        7E          02  CE 001D7          MNEGL    #2, -(SP)                       ;
              00000000G 00          01  FB 001DA          CALLS    #1, BAS$$STOP_IO                ;
                        0A          6E  E8 001E1  14$:    BLBS     CONNECT_STATUS, 15$             ; 1216
                        7E          03  CE 001E4          MNEGL    #3, -(SP)                       ;
              00000000G 00          01  FB 001E7          CALLS    #1, BAS$$STOP_IO                ;
           0F      40   A6          02  E1 001EE  15$:    BBC      #2, 64(FAB), 16$                ; 1224
                        68          20  88 001F3          BISB2    #32, (R8)                       ; 1227
                   D6   AB    3C    A6  B0 001F6          MOVW     60(FAB), -42(CCB)               ; 1228
                              D4    AB  B4 001FB          CLRW     -44(CCB)                        ; 1229
                   A1   AB          02  88 001FE          BISB2    #2, -95(CCB)                    ; 1230
           39           67          03  E1 00202  16$:    BBC      #3, (R7), 21$                   ; 1239
                              1D    A6  95 00206          TSTB     29(FAB)                         ; 1246
                                    0B  13 00209          BEQL     17$                             ;
                        7E   00G    8F  9A 0020B          MOVZBL   #BAS$K_FILATTNOT, -(SP)         ;
              00000000G 00          01  FB 0020F          CALLS    #1, BAS$$STOP_IO                ;
           04           69          02  E1 00216  17$:    BBC      #2, (R9), 18$                   ; 1252
                   A1   AB          01  88 0021A          BISB2    #1, -95(CCB)                    ;
                        50    36    A6  3C 0021E  18$:    MOVZWL   54(FAB), R0                     ; 1257
                        50  FF2E    CD  B1 00222          CMPW     XAB_BLOCK+10, R0                ;
                                    05  1B 00227          BLEQU    19$                             ;
                        50  FF2E    CD  3C 00229          MOVZWL   XAB_BLOCK+10, R0                ;
                  0084  8F          50  B1 0022E  19$:    CMPW     R0, #132                        ;
                                    04  1E 00233          BGEQU    20$                             ;
                        50    84    8F  9A 00235          MOVZBL   #132, R0                        ;
                   D2   AB          50  B0 00239  20$:    MOVW     R0, -46(CCB)                    ;
                                    05  11 0023D          BRB      22$                             ; 1239
                   D2   AB    84    8F  9B 0023F  21$:    MOVZBW   #132, -46(CCB)                  ; 1267
                        50    1F    A6  9A 00244  22$:    MOVZBL   31(FAB), R0                     ; 1275
                                    05  15 00248          BLEQ     23$                             ; 1278
                        03          50  91 0024A          CMPB     R0, #3                          ;
                                    0B  1B 0024D          BLEQU    24$                             ;
                        7E   00G    8F  9A 0024F  23$:    MOVZBL   #BAS$K_ILLUSA, -(SP)            ; 1282
              00000000G 00          01  FB 00253          CALLS    #1, BAS$$STOP_IO                ;
                              EC    AB  9F 0025A  24$:    PUSHAB   -20(CCB)                        ; 1293
                   04   AE    D2    AB  3C 0025D          MOVZWL   -46(CCB), 4(SP)                 ;
                              04    AE  9F 00262          PUSHAB   4(SP)                           ;
              00000000G 00          02  FB 00265          CALLS    #2, LIB$GET_VM                  ;
                        0B          50  E8 0026C          BLBS     GET_VM_RESULT, 25$              ; 1295
                        7E   00G    8F  9A 0026F          MOVZBL   #BAS$K_MAXMEMEXC, -(SP)         ;
              00000000G 00          01  FB 00273          CALLS    #1, BAS$$STOP_IO                ;
                        52    F8    AB  D0 0027A  25$:    MOVL     -8(CCB), OLD_ADDRESS            ; 1310
                              F8    AB  9F 0027E          PUSHAB   -8(CCB)                         ; 1311
                   04   AE    F7    AB  9A 00281          MOVZBL   -9(CCB), 4(SP)                  ;
                              04    AE  9F 00286          PUSHAB   4(SP)                           ;
              00000000G 00          02  FB 00289          CALLS    #2, LIB$GET_VM                  ;
```

```
                       09        50 E8 00290        BLBS    GET_VM_RESULT, 26$                    ; 1313
                                 50 DD 00293        PUSHL   GET_VM_RESULT                         ;
            00000000G  00        01 FB 00295        CALLS   #1, LIB$STOP                          ;
                       50     F7 AB 9A 0029C 26$:   MOVZBL  -9(CCB), R0                           ; 1315
    F8   BB            62        50 28 002A0        MOVC3   R0, (OLD_ADDRESS), @-8(CCB)           ;
                       68        01 88 002A5        BISB2   #1, (R8)                              ; 1316
                 24    AB     EC AB D0 002A8        MOVL    -20(CCB), 36(CCB)                     ; 1321
                 20    AB     D2 AB B0 002AD        MOVW    -46(CCB), 32(CCB)                     ; 1322
                 9C    AB     EC AB D0 002B2        MOVL    -20(CCB), -100(CCB)                   ; 1323
                              E8 AB D4 002B7        CLRL    -24(CCB)                              ; 1327
                 D8    AB        01 90 002BA        MOVB    #1, -40(CCB)                          ; 1331
                       67        01 88 002BE        BISB2   #1, (R7)                              ; 1332
                       50 00000000G 00 9E 002C1     MOVAB   BAS$$L_XIT_LOCK, R0                   ; 1338
                       07        50 E8 002C8        BLBS    R0, 27$                               ;
            00000000G  00        00 FB 002CB        CALLS   #0, BAS$$DECL_EXITH                   ;
                                    04 002D2 27$:   RET                                           ; 1341

; Routine Size:  723 bytes,    Routine Base:  _BAS$CODE + 0064


;   585          1342  1
;   586          1343  1 END                                   ! end of module BAS$$OPEN_DEFLT
;   587          1344  1
;   588          1345  0 ELUDOM




;                                PSECT SUMMARY
;
;       Name                    Bytes                    Attributes
;
;    _BAS$CODE                       823  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        66         0         581          00:01.1




;                               COMMAND QUALIFIERS

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

```
; Size:          723 code + 100 data bytes
; Run Time:        00:20.1
; Elapsed Time:    00:47.0
; Lines/CPU Min:    4006
; Lexemes/CPU-Min: 28838
; Memory Used:  270 pages
; Compilation Complete
```

BASOPEN
LIS

BASPOWJJ
LIS

BASPOS
LIS

BASPOWDJ
LIS

BASOPENDE
LIS

BASPOWGG
LIS

BASPOWHH
LIS

BASPOWRJ
LIS

BASPOWII
LIS

BASPURIOB
LIS

BASPOWDD
LIS

BASOPENZE
LIS

BASPOWDR
LIS

BASPOWGJ
LIS

BASPOWRD
LIS

BASPOWHJ
LIS

BASPOWRR
LIS