```
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
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**BASCANTYP

```
BBBBBBBB      AAAAAA      SSSSSSSS    CCCCCCCC    AAAAAA    NN      NN  TTTTTTTTTT  YY      YY  PPPPPPPP
BBBBBBBB      AAAAAA      SSSSSSSS    CCCCCCCC    AAAAAA    NN      NN  TTTTTTTTTT  YY      YY  PPPPPPPP
BB      BB   AA    AA   SS          CC          AA    AA  NN      NN      TT      YY      YY  PP      PP
BB      BB   AA    AA   SS          CC          AA    AA  NN      NN      TT      YY      YY  PP      PP
BB      BB   AA    AA   SS          CC          AA    AA  NNNN    NN      TT        YY  YY    PP      PP
BB      BB   AA    AA   SS          CC          AA    AA  NNNN    NN      TT        YY  YY    PP      PP
BBBBBBBB     AA    AA    SSSSSS     CC          AA    AA  NN  NN  NN      TT          YY      PPPPPPPP
BBBBBBBB     AA    AA    SSSSSS     CC          AA    AA  NN  NN  NN      TT          YY      PPPPPPPP
BB      BB   AAAAAAAAAA        SS   CC          AAAAAAAAAA  NN    NNNN      TT          YY      PP
BB      BB   AAAAAAAAAA        SS   CC          AAAAAAAAAA  NN    NNNN      TT          YY      PP
BB      BB   AA    AA          SS   CC          AA    AA  NN      NN      TT          YY      PP
BB      BB   AA    AA          SS   CC          AA    AA  NN      NN      TT          YY      PP
BBBBBBBB     AA    AA  SSSSSSSS     CCCCCCCC    AA    AA  NN      NN      TT          YY      PP
BBBBBBBB     AA    AA  SSSSSSSS     CCCCCCCC    AA    AA  NN      NN      TT          YY      PP
```

```
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
```

```
0 MODULE BAS$CANTYPAHEAD (                               !
0                    IDENT = '1-005'                     ! File: BASCANTYP.B32 EDIT:RNG1005
0                    ) =
1 BEGIN
1 !
1 !****************************************************************************
1 !*                                                                          *
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1 !*                                                                          *
1 !*                                                                          *
1 !****************************************************************************
1 !
1
1 !++
1 ! FACILITY:  BASIC-PLUS-2 Miscellaneous I/O
1 !
1 ! ABSTRACT:
1 !
1 !       This module contains the BASIC CANTYPA function,
1 !       which cancels type-ahead.
1 !
1 ! ENVIRONMENT:  VAX-11 User Mode
1 !
1 ! AUTHOR: John Sauter, CREATION DATE: 01-MAY-1979
1 !
1 ! MODIFIED BY:
1 !
1 ! 1-001 - Original.
1 ! 1-002 - Set up ISB$A_USER_FP.  JBS 25-JUL-1979
1 ! 1-003 - Cancel typeahead immediately, instead of waiting till
1 !         the next read.  PLL 28-Jul-81
1 ! 1-004 - Use LIB$GET_EF to allocate an event flag, instead of using the
1 !         default efn zero.  PLL 30-Nov-81
1 ! 1-005 - Declare LIB$STOP to be external. RNG 05-Jan-82
1 !--
1
1 !<BLF/PAGE>
```

```
;    55          0054  1 !
;    56          0055  1 ! SWITCHES:
;    57          0056  1 !
;    58          0057  1
;    59          0058  1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;    60          0059  1
;    61          0060  1 !
;    62          0061  1 ! LINKAGES:
;    63          0062  1 !
;    64          0063  1
;    65          0064  1 REQUIRE 'RTLIN:OTSLNK';                         ! Define linkages
;    66          0493  1
;    67          0494  1 !
;    68          0495  1 ! TABLE OF CONTENTS:
;    69          0496  1 !
;    70          0497  1
;    71          0498  1 FORWARD ROUTINE
;    72          0499  1     BAS$CANTYPAHEAD;                            ! Cancel type ahead
;    73          0500  1
;    74          0501  1 !
;    75          0502  1 ! INCLUDE FILES:
;    76          0503  1 !
;    77          0504  1
;    78          0505  1 REQUIRE 'RTLML:OTSLUB';                         ! Get LUB definitions
;    79          0645  1
;    80          0646  1 REQUIRE 'RTLML:OTSISB';                         ! Get ISB definitions
;    81          0814  1
;    82          0815  1 REQUIRE 'RTLIN:RTLPSECT';                       ! Macros for defining psects
;    83          0910  1
;    84          0911  1 LIBRARY 'RTLSTARLE';                            ! System symbols
;    85          0912  1
;    86          0913  1 !
;    87          0914  1 ! MACROS:
;    88          0915  1 !
;    89          0916  1 !       NONE
;    90          0917  1 !
;    91          0918  1 ! EQUATED SYMBOLS:
;    92          0919  1 !
;    93          0920  1 !       NONE
;    94          0921  1 !
;    95          0922  1 ! PSECTS:
;    96          0923  1 !
;    97          0924  1 DECLARE_PSECTS (BAS);                           ! Declare psects for BAS$ facility
;    98          0925  1 !
;    99          0926  1 ! OWN STORAGE:
;   100          0927  1 !
;   101          0928  1 !       NONE
;   102          0929  1 !
;   103          0930  1 ! EXTERNAL REFERENCES:
;   104          0931  1 !
;   105          0932  1
;   106          0933  1 EXTERNAL ROUTINE
;   107          0934  1     LIB$GET_EF,                                 ! allocate an event flag
;   108          0935  1     LIB$FREE_EF,                                ! deallocate an event flag
;   109          0936  1     LIB$STOP,                                   ! stop process and return status
;   110          0937  1     BAS$$OPEN_ZERO : NOVALUE,                   ! Open channel zero
;   111          0938  1     BAS$$CB_PUSH : JSB_CB_PUSH NOVALUE,         ! Load register CCB
```

```
;  112          0939  1     BAS$$CB_POP : JSB_CB_POP NOVALUE,          ! Done with register CCB
;  113          0940  1     BAS$$STOP_IO : NOVALUE;                    ! Signal fatal I/O error
;  114          0941  1
;  115          0942  1 !+
;  116          0943  1 ! The following are the error codes used in this module.
;  117          0944  1 !-
;  118          0945  1
;  119          0946  1 EXTERNAL LITERAL
;  120          0947  1     BAS$K_IO_CHANOT : UNSIGNED (8);            ! Channel not open.
;  121          0948  1
```

```
;  123          0949  1 GLOBAL ROUTINE BAS$CANTYPAHEAD (                  ! Cancel type ahead
;  124          0950  1         CHAN                                      ! Channel on which to cancel type ahead
;  125          0951  1     ) =
;  126          0952  1
;  127          0953  1 !++
;  128          0954  1 ! FUNCTIONAL DESCRIPTION:
;  129          0955  1 !
;  130          0956  1 !       Suppress type ahead on the terminal open on the specified
;  131          0957  1 !       channel.
;  132          0958  1 !
;  133          0959  1 ! FORMAL PARAMETERS:
;  134          0960  1 !
;  135          0961  1 !       CHAN.rl.v       The channel whose terminal to suppress type
;  136          0962  1 !                       ahead on.
;  137          0963  1 !
;  138          0964  1 ! IMPLICIT INPUTS:
;  139          0965  1 !
;  140          0966  1 !       NONE
;  141          0967  1 !
;  142          0968  1 ! IMPLICIT OUTPUTS:
;  143          0969  1 !
;  144          0970  1 !       LUB$V_PTA       Suppress type-ahead.
;  145          0971  1 !
;  146          0972  1 ! ROUTINE VALUE:
;  147          0973  1 ! COMPLETION CODES:
;  148          0974  1 !
;  149          0975  1 !       SS$_NORMAL
;  150          0976  1 !
;  151          0977  1 ! SIDE EFFECTS:
;  152          0978  1 !
;  153          0979  1 !       Signals if an error is encountered.
;  154          0980  1 !       BAS$$CB_PUSH will signal if the channel number is invalid.
;  155          0981  1 !       Signals BAS$K_IO_CHANOT if the channel is not open.
;  156          0982  1 !
;  157          0983  1 !--
;  158          0984  1
;  159          0985  2     BEGIN
;  160          0986  2
;  161          0987  2     BUILTIN
;  162          0988  2         FP;
;  163          0989  2
;  164          0990  2     GLOBAL REGISTER
;  165          0991  2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
;  166          0992  2
;  167          0993  2     LOCAL
;  168          0994  2         FMP : REF BLOCK [, BYTE],
;  169          0995  2         EVENT_FLAG,
;  170          0996  2         STATUS,
;  171          0997  2         DEVNAM_DESC : BLOCK [8, BYTE];
;  172          0998  2
;  173          0999  2     FMP = .FP;
;  174          1000  2 !+
;  175          1001  2 ! Get the CCB for the channel.
;  176          1002  2 !-
;  177          1003  2
;  178          1004  3     IF (.CHAN EQL 0)
;  179          1005  2     THEN
```

```
;  180          1006  3          BEGIN
;  181          1007  3      !+
;  182          1008  3      ! The user is referencing his controlling terminal.
;  183          1009  3      !-
;  184          1010  3          BAS$$CB_PUSH (LUB$K_LUN_INPU, LUB$K_ILUN_MIN);
;  185          1011  3      !+
;  186          1012  3      ! If the controlling terminal is not yet open, open it.
;  187          1013  3      !-
;  188          1014  3
;  189          1015  3          IF ( NOT .CCB [LUB$V_OPENED]) THEN BAS$$OPEN_ZERO (.FMP [SF$L_SAVE_FP]);
;  190          1016  3
;  191          1017  3          END
;  192          1018  2      ELSE
;  193          1019  3          BEGIN
;  194          1020  3      !+
;  195          1021  3      ! This is an ordinary channel.
;  196          1022  3      !-
;  197          1023  3          BAS$$CB_PUSH (.CHAN, LUB$K_LUN_MIN);
;  198          1024  3          END;
;  199          1025  2
;  200          1026  2      CCB [ISB$A_USER_FP] = .FMP [SF$L_SAVE_FP];
;  201          1027  2      !+
;  202          1028  2      ! If the channel is not now open, give an error signal.
;  203          1029  2      !-
;  204          1030  2
;  205          1031  2      IF ( NOT .CCB [LUB$V_OPENED]) THEN BAS$$STOP_IO (BAS$K_IO_CHANOT);
;  206          1032  2
;  207          1033  2      !+
;  208          1034  2      ! This code formerly set the PTA bit and then let RMS do the actual
;  209          1035  2      ! purge at the record level.  This method, however, might purge things
;  210          1036  2      ! typed after the cancel typeahead was issued.  So cancel typeahead now
;  211          1037  2      ! by doing a read virtual block of 0 characters.
;  212          1038  2      !-
;  213          1039  2
;  214          1040  2      !+
;  215          1041  2      ! $ASSIGN will translate SYS$INPUT to a device name.
;  216          1042  2      !-
;  217          1043  2
;  218          1044  2          DEVNAM_DESC [DSC$W_LENGTH] = %CHARCOUNT ('SYS$INPUT');
;  219          1045  2          DEVNAM_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_Z;
;  220          1046  2          DEVNAM_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
;  221          1047  2          DEVNAM_DESC [DSC$A_POINTER] = UPLIT('SYS$INPUT');
;  222          1048  2
;  223          1049  2          STATUS = $ASSIGN (DEVNAM = DEVNAM_DESC, CHAN = CHAN);
;  224          1050  2          IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
;  225          1051  2
;  226          1052  2          STATUS = LIB$GET_EF (EVENT_FLAG);
;  227          1053  2          IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
;  228          1054  2
;  229        P 1055  2          STATUS = $QIOW (EFN = .EVENT_FLAG, CHAN = .CHAN,
;  230        P 1056  2                          FUNC = IO$_READVBLK+IO$M_PURGE,
;  231          1057  2                          P1 = .CCB [LUB$A_BUF_BEG], P2 = 0);
;  232          1058  2          IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
;  233          1059  2
;  234          1060  2          STATUS = LIB$FREE_EF (EVENT_FLAG);
;  235          1061  2          IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
;  236          1062  2
```

```
;  237          1063  2     STATUS = $DASSGN (CHAN = .CHAN);
;  238          1064  2     IF (NOT .STATUS) THEN LIB$STOP (.STATUS);
;  239          1065  2 !+
;  240          1066  2 ! We are done with register CCB.
;  241          1067  2 !-
;  242          1068  2     BAS$$CB_POP ();
;  243          1069  2     RETURN (SS$_NORMAL);
;  244          1070  1     END;                                    ! end of BAS$CANTYPAHEAD

                                                                    .TITLE  BAS$CANTYPAHEAD
                                                                    .IDENT  \1-005\

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

          00 00 00 54 55 50 4E 49 24 53 59 53  00000 P.AAA:        .ASCII  \SYS$INPUT\<0><0><0>                                ;

                                                                    .EXTRN  LIB$GET_EF, LIB$FREE_EF
                                                                    .EXTRN  LIB$STOP, BAS$$OPEN_ZERO
                                                                    .EXTRN  BAS$$CB_PUSH, BAS$$CB_POP
                                                                    .EXTRN  BAS$$STOP_IO, BAS$K_IO_CHANOT
                                                                    .EXTRN  SYS$ASSIGN, SYS$QIOW
                                                                    .EXTRN  SYS$DASSGN

                                        083C 00000                  .ENTRY  BAS$CANTYPAHEAD, Save R2,R3,R4,R5,R11       ; 0949
                                55 00000000G   00   9E 00002        MOVAB   BAS$$CB_PUSH, R5                            ;
                                54 00000000G   00   9E 00009        MOVAB   LIB$STOP, R4                                ;
                                5E                  0C   C2 00010   SUBL2   #12, SP                                     ;
                                53                  5D   D0 00013   MOVL    FP, FMP                                     ; 0999
                                             04     AC   D5 00016   TSTL    CHAN                                        ; 1004
                                                    18   12 00019   BNEQ    1$                                          ;
                                50                  08   CE 0001B   MNEGL   #8, R0                                      ; 1010
                                52                  07   CE 0001E   MNEGL   #7, R2                                      ;
                                                    65   16 00021   JSB     BAS$$CB_PUSH                                ;
                                14             FC   AB   E8 00023   BLBS    -4(CCB), 2$                                 ; 1015
                                               0C   A3   DD 00027   PUSHL   12(FMP)                                     ;
                   00000000G    00                  01   FB 0002A   CALLS   #1, BAS$$OPEN_ZERO                         ;
                                                    08   11 00031   BRB     2$                                          ; 1004
                                                    50   D4 00033 1$: CLRL    R0                                          ; 1023
                                52             04   AC   D0 00035   MOVL    CHAN, R2                                    ;
                                                    65   16 00039   JSB     BAS$$CB_PUSH                                ;
                             FF4C  CB          0C   A3   D0 0003B 2$: MOVL    12(FMP), -180(CCB)                          ; 1026
                                   0B          FC   AB   E8 00041   BLBS    -4(CCB), 3$                                 ; 1031
                                   7E          00G  8F   9A 00045   MOVZBL  #BAS$K_IO_CHANOT, -(SP)                      ;
                   00000000G       00              01   FB 00049   CALLS   #1, BAS$$STOP_IO                            ;
                                04 AE 01000009     8F   D0 00050 3$: MOVL    #16777225, DEVNAM_DESC                      ; 1044
                                08 AE          99   AF   9E 00058   MOVAB   P.AAA, DEVNAM_DESC+4                       ; 1047
                                                    7E   7C 0005D   CLRQ    -(SP)                                       ; 1049
                                               04   AC   9F 0005F   PUSHAB  CHAN                                       ;
                                               10   AE   9F 00062   PUSHAB  DEVNAM_DESC                                 ;
                   00000000G    00                  04   FB 00065   CALLS   #4, SYS$ASSIGN                            ;
                                52                  50   D0 0006C   MOVL    R0, STATUS                                  ;
                                05                  52   E8 0006F   BLBS    STATUS, 4$                                  ; 1050
                                                    52   DD 00072   PUSHL   STATUS                                      ;
                                64                  01   FB 00074   CALLS   #1, LIB$STOP                               ;
                                                    5E   DD 00077 4$: PUSHL   SP                                        ; 1052
                   00000000G    00                  01   FB 00079   CALLS   #1, LIB$GET_EF                             ;
```

```
                              52                50  D0 00080          MOVL    R0, STATUS                        ;
                              05                52  E8 00083          BLBS    STATUS, 5$                        ; 1053
                                                52  DD 00086          PUSHL   STATUS                            ;
                              64                01  FB 00088          CALLS   #1, LIB$STOP                      ;
                                                7E  7C 0008B  5$:     CLRQ    -(SP)                             ; 1057
                                                7E  7C 0008D          CLRQ    -(SP)                             ;
                                                7E  D4 0008F          CLRL    -(SP)                             ;
                                        BC      AB  DD 00091          PUSHL   -68(CCB)                          ;
                                                7E  7C 00094          CLRQ    -(SP)                             ;
                                                7E  D4 00096          CLRL    -(SP)                             ;
                              7E       0831     8F  3C 00098          MOVZWL  #2097, -(SP)                      ;
                                        04      AC  DD 0009D          PUSHL   CHAN                              ;
                                        2C      AE  DD 000A0          PUSHL   EVENT_FLAG                        ;
                   00000000G  00                0C  FB 000A3          CALLS   #12, SYS$QIOW                     ;
                              52                50  D0 000AA          MOVL    R0, STATUS                        ;
                              05                52  E8 000AD          BLBS    STATUS, 6$                        ; 1058
                                                52  DD 000B0          PUSHL   STATUS                            ;
                              64                01  FB 000B2          CALLS   #1, LIB$STOP                      ;
                                                5E  DD 000B5  6$:     PUSHL   SP                                ; 1060
                   00000000G  00                01  FB 000B7          CALLS   #1, LIB$FREE_EF                   ;
                              52                50  D0 000BE          MOVL    R0, STATUS                        ;
                              05                52  E8 000C1          BLBS    STATUS, 7$                        ; 1061
                                                52  DD 000C4          PUSHL   STATUS                            ;
                              64                01  FB 000C6          CALLS   #1, LIB$STOP                      ;
                                        04      AC  DD 000C9  7$:     PUSHL   CHAN                              ; 1063
                   00000000G  00                01  FB 000CC          CALLS   #1, SYS$DASSGN                    ;
                              52                50  D0 000D3          MOVL    R0, STATUS                        ;
                              05                52  E8 000D6          BLBS    STATUS, 8$                        ; 1064
                                                52  DD 000D9          PUSHL   STATUS                            ;
                              64                01  FB 000DB          CALLS   #1, LIB$STOP                      ;
                              00000000G         00  16 000DE  8$:     JSB     BAS$$CB_POP                       ; 1068
                              50                01  D0 000E4          MOVL    #1, R0                            ; 1069
                                                    04 000E7          RET                                       ; 1070

; Routine Size:  232 bytes,    Routine Base:  _BAS$CODE + 000C


;  245            1071  1
;  246            1072  1 END                                                       ! end of module BAS$CANTYPAHEAD
;  247            1073  1
;  248            1074  0 ELUDOM



;                                 PSECT SUMMARY
;
;       Name                   Bytes                       Attributes
;
;  _BAS$CODE                       244  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       15         0       581          00:01.2
```

```
;                                  COMMAND QUALIFIERS

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

; Size:         232 code + 12 data bytes
; Run Time:       00:10.7
; Elapsed Time:   00:25.1
; Lines/CPU Min:   6005
; Lexemes/CPU-Min: 40277
; Memory Used:  157 pages
; Compilation Complete
```

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BASPAR SDL

BASLNK REQ

BPAMSGDEF REQ

BASRTL

BASRTL MAP

BASCANTYP LIS