```
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**BASPURIOB


```
BBBBBBBB      AAAAAA      SSSSSSSS  PPPPPPPP    UU      UU  RRRRRRRR      IIIIII      000000    BBBBBBBB
BBBBBBBB      AAAAAA      SSSSSSSS  PPPPPPPP    UU      UU  RRRRRRRR      IIIIII      000000    BBBBBBBB
BB      BB  AA      AA  SS        PP      PP  UU      UU  RR      RR      II      00      00  BB      BB
BB      BB  AA      AA  SS        PP      PP  UU      UU  RR      RR      II      00      00  BB      BB
BB      BB  AA      AA  SS        PP      PP  UU      UU  RR      RR      II      00      00  BB      BB
BB      BB  AA      AA  SS        PP      PP  UU      UU  RR      RR      II      00      00  BB      BB
BBBBBBBB    AA      AA    SSSSSS  PPPPPPPP    UU      UU  RRRRRRRR      II      00      00  BBBBBBBB
BBBBBBBB    AA      AA    SSSSSS  PPPPPPPP    UU      UU  RRRRRRRR      II      00      00  BBBBBBBB
BB      BB  AAAAAAAAAA          SS  PP        UU      UU  RR  RR        II      00      00  BB      BB
BB      BB  AAAAAAAAAA          SS  PP        UU      UU  RR  RR        II      00      00  BB      BB
BB      BB  AA      AA          SS  PP        UU      UU  RR    RR      II      00      00  BB      BB
BB      BB  AA      AA          SS  PP        UU      UU  RR    RR      II      00      00  BB      BB
BBBBBBBB    AA      AA  SSSSSSSS    PP        UUUUUUUUUU  RR      RR    IIIIII      000000    BBBBBBBB
BBBBBBBB    AA      AA  SSSSSSSS    PP        UUUUUUUUUU  RR      RR    IIIIII      000000    BBBBBBBB

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$$PUR_IO_BUF (                      ! Purge I/O buffer for a file.
;     2          0002  0                 IDENT = '1-007'               ! File: BASPURIOB.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.           *
;    10          0010  1 !*  ALL RIGHTS RESERVED.                                           *
;    11          0011  1 !*                                                                    *
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;    13          0013  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE   *
;    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   *
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;    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:
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module contains routines which will check the LUN indicated by R11
;    36          0036  1 !       and print the contents of the associated I/O buffer if there is valid
;    37          0037  1 !       data in the buffer.  These routines are intended to be called before
;    38          0038  1 !       a file is closed (explicitly or implicitly at end of program) or if
;    39          0039  1 !       an error occurs during an output element transmit.
;    40          0040  1 !
;    41          0041  1 ! ENVIRONMENT: User mode - AST reentrant
;    42          0042  1 !
;    43          0043  1 ! AUTHOR: Donald G. Petersen, CREATION DATE: 22-Jan-79
;    44          0044  1 !
;    45          0045  1 ! MODIFIED BY:
;    46          0046  1 !
;    47          0047  1 !       DGP, : VERSION 1-01
;    48          0048  1 ! 1-001 - original
;    49          0049  1 ! 1-002 - Use 32-bit addresses for externals.  JBS 27-JAN-1979
;    50          0050  1 ! 1-003 - Change entry point names so we have two: one for CLOSE
;    51          0051  1 !           and one for error handling.  JBS for DGP 07-MAR-1979
;    52          0052  1 ! 1-004 - Make PUR_IO_ERR purge the terminal on unit zero.  DGP 07-Mar-79
;    53          0053  1 ! 1-005 - Remove references to BAS$ routines.  JBS 10-MAY-1979
;    54          0054  1 ! 1-006 - Change from an OTS routine to a BAS routine, since FORTRAN
;    55          0055  1 !           does not need to purge I/O buffers.  JBS 20-AUG-1979
;    56          0056  1 ! 1-007 - Don't purge virtual arrays; it is quite complex, and CLOSE
;    57          0057  1 !           will do it.  JBS 30-AUG-1979
```

```
;   58          0058  1 !--
;   59          0059  1
;   60          0060  1 !<BLF/PAGE>
```

```
;    62          0061  1 !
;    63          0062  1 ! SWITCHES:
;    64          0063  1 !
;    65          0064  1
;    66          0065  1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
;    67          0066  1
;    68          0067  1 !
;    69          0068  1 ! LINKAGES:
;    70          0069  1 !
;    71          0070  1
;    72          0071  1 REQUIRE 'RTLIN:OTSLNK';                         ! define all linkages
;    73          0500  1
;    74          0501  1 !
;    75          0502  1 ! TABLE OF CONTENTS:
;    76          0503  1 !
;    77          0504  1
;    78          0505  1 FORWARD ROUTINE
;    79          0506  1     BAS$$PUR_IO_ERR : NOVALUE,                  ! Purge outstanding output buffer
;    80          0507  1                                                 ! following an error
;    81          0508  1     BAS$$PUR_IO_CLO : CALL_CCB NOVALUE;         ! Purge outstanding output buffer
;    82          0509  1
;    83          0510  1                                                 ! during a close
;    84          0511  1 !
;    85          0512  1 ! INCLUDE FILES:
;    86          0513  1 !
;    87          0514  1
;    88          0515  1 REQUIRE 'RTLML:OTSLUB';                         ! I/O statement block
;    89          0655  1
;    90          0656  1 REQUIRE 'RTLIN:RTLPSECT';                       ! Define DECLARE_PSECTS macro
;    91          0751  1
;    92          0752  1 REQUIRE 'RTLIN:BASIOERR';                       ! Define I/O error symbols
;    93          0805  1
;    94          0806  1 LIBRARY 'RTLSTARLE';                            ! STARLET library
;    95          0807  1
;    96          0808  1 !
;    97          0809  1 ! MACROS:
;    98          0810  1 !
;    99          0811  1 !       NONE
;   100          0812  1 !
;   101          0813  1 ! EQUATED SYMBOLS:
;   102          0814  1 !
;   103          0815  1
;   104          0816  1 LITERAL
;   105          0817  1     K_CR = %X'0D',                              ! ASCII CR
;   106          0818  1     K_NULL = %X'00',                            ! ASCII NUL
;   107          0819  1     K_LF = %X'0B';                              ! ASCII LF
;   108          0820  1
;   109          0821  1 !
;   110          0822  1 ! PSECT declarations
;   111          0823  1 !
;   112          0824  1 DECLARE_PSECTS (BAS);                           ! Put this in BAS psect
;   113          0825  1 !
;   114          0826  1 ! OWN STORAGE:
;   115          0827  1 !
;   116          0828  1 !       NONE
;   117          0829  1 !
;   118          0830  1 ! EXTERNAL REFERENCES:
```

```
;  119          0831  1 !
;  120          0832  1
;  121          0833  1 EXTERNAL ROUTINE
;  122          0834  1     BAS$$CB_PUSH : JSB_CB_PUSH,                 ! Load register CCB
;  123          0835  1     BAS$$CB_POP : JSB_CB_POP NOVALUE,           ! Done with register CCB
;  124          0836  1     BAS$$NEXT_LUN : NOVALUE,                    ! Get next logical unit number
;  125          0837  1     BAS$$STOP_IO : NOVALUE;                     ! Signal fatal BASIC I/O error
;  126          0838  1
```

```
;  128          0839  1 GLOBAL ROUTINE BAS$$PUR_IO_CLO                    ! Purge the contents of an I/O buffer
;  129          0840  1     : CALL_CCB NOVALUE =
;  130          0841  1
;  131          0842  1 !++
;  132          0843  1 ! FUNCTIONAL DESCRIPTION:
;  133          0844  1 !
;  134          0845  1 !       This routine will PUT the contents of the buffer associated with the LUN
;  135          0846  1 !       passed to it if the buffer has valid data in it.  This routine is expected
;  136          0847  1 !       to aid in closing a file either implicitly or explicitly if the last lan-
;  137          0848  1 !       guage to access the file has the Basic semantics where an output record
;  138          0849  1 !       may be continued across several output statements.  Therefore, an output
;  139          0850  1 !       buffer may exist which has valid data in it which should be printed before
;  140          0851  1 !       a program finishes executing.
;  141          0852  1 !
;  142          0853  1 ! FORMAL PARAMETERS:
;  143          0854  1 !
;  144          0855  1 !       NONE
;  145          0856  1 !
;  146          0857  1 ! IMPLICIT INPUTS:
;  147          0858  1 !
;  148          0859  1 !       LUB$V_OUTBUF_DR         Flag to indicate the output buffer has valid
;  149          0860  1 !                               data in it
;  150          0861  1 !       LUB$W_LUN               LUN number
;  151          0862  1 !
;  152          0863  1 ! IMPLICIT OUTPUTS:
;  153          0864  1 !
;  154          0865  1 !       LUB$V_OUTBUF_DR         Flag to indicate the output buffer has valid
;  155          0866  1 !       LUB$B_BAS_VFC2          'post' carriage control for PRN file format
;  156          0867  1 !                               data in it
;  157          0868  1 !
;  158          0869  1 ! ROUTINE VALUE:
;  159          0870  1 !
;  160          0871  1 !       NONE
;  161          0872  1 !
;  162          0873  1 ! SIDE EFFECTS:
;  163          0874  1 !
;  164          0875  1 !       NONE
;  165          0876  1 !
;  166          0877  1 !--
;  167          0878  1
;  168          0879  2     BEGIN
;  169          0880  2
;  170          0881  2     EXTERNAL REGISTER
;  171          0882  2         CCB : REF BLOCK [, BYTE];
;  172          0883  2
;  173          0884  3     IF (.CCB [LUB$V_OUTBUF_DR] AND (.CCB [LUB$B_ORGAN] NEQ LUB$K_ORG_VIRTU))
;  174          0885  2     THEN
;  175          0886  3         BEGIN
;  176          0887  3 !+
;  177          0888  3 ! Write out the buffer.  This invloves a call to RMS.
;  178          0889  3 !-
;  179          0890  3         CCB [RAB$W_RSZ] = .CCB [LUB$A_BUF_PTR] - .CCB [LUB$A_RBUF_ADR];
;  180          0891  3         CCB [RAB$L_RBF] = .CCB [LUB$A_RBUF_ADR];
;  181          0892  3         CCB [LUB$V_OUTBUF_DR] = 0;
;  182          0893  3
;  183          0894  4         IF ( NOT $PUT (RAB = .CCB))
;  184          0895  3         THEN
```

```
;  185          0896  4              BEGIN
;  186          0897  4
;  187          0898  4              WHILE (.CCB [RAB$L_STS] EQL RMS$_RSA) DO
;  188          0899  5                  BEGIN
;  189          0900  5                  $WAIT (RAB = .CCB);
;  190          0901  5                  $PUT (RAB = .CCB);
;  191          0902  4                  END;
;  192          0903  4
;  193          0904  4              IF ( NOT .CCB [RAB$L_STS]) THEN BAS$$STOP_IO (BAS$K_IOERR_REC);
;  194          0905  4
;  195          0906  3              END;
;  196          0907  3
;  197          0908  3          CCB [LUB$B_BAS_VFC1] = K_LF;
;  198          0909  3          CCB [LUB$B_BAS_VFC2] = K_NULL;
;  199          0910  3 !+
;  200          0911  3 ! Initialize the record buffer.
;  201          0912  3 !-
;  202          0913  3          CCB [LUB$A_BUF_PTR] = .CCB [LUB$A_RBUF_ADR];
;  203          0914  3          CCB [LUB$A_BUF_END] = .CCB [LUB$A_RBUF_ADR] + .CCB [LUB$W_RBUF_SIZE];
;  204          0915  3          CCB [LUB$L_PRINT_POS] = 0;
;  205          0916  2          END;
;  206          0917  2
;  207          0918  2      RETURN;
;  208          0919  1      END;                                    !End of BAS$$PUR_IO_CLO

                                                                     .TITLE  BAS$$PUR_IO_BUF
                                                                     .IDENT  \1-007\

                                                                     .EXTRN  BAS$$CB_PUSH, BAS$$CB_POP
                                                                     .EXTRN  BAS$$NEXT_LUN, BAS$$STOP_IO
                                                                     .EXTRN  SYS$PUT, SYS$WAIT

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

                                                0004 00000           .ENTRY  BAS$$PUR_IO_CLO, Save R2                ; 0839
                                    52 00000000G  00  9E 00002       MOVAB   SYS$PUT, R2                             ;
                5C          FE      AB            03  E1 00009       BBC     #3, -2(CCB), 4$                         ; 0884
                                    05      C4    AB  91 0000E       CMPB    -60(CCB), #5                            ;
                                                  56  13 00012       BEQL    4$                                      ;
          22    AB          B0      AB      EC    AB  A3 00014       SUBW3   -20(CCB), -80(CCB), 34(CCB)             ; 0890
                            28      AB      EC    AB  D0 0001B       MOVL    -20(CCB), 40(CCB)                       ; 0891
                            FE      AB            08  8A 00020       BICB2   #8, -2(CCB)                             ; 0892
                                                  5B  DD 00024       PUSHL   CCB                                     ; 0894
                                    62            01  FB 00026       CALLS   #1, SYS$PUT                             ;
                                    28            50  E8 00029       BLBS    R0, 3$                                  ;
                    000182DA        8F      08    AB  D1 0002C 1$:   CMPL    8(CCB), #99034                          ; 0898
                                                  10  12 00034       BNEQ    2$                                      ;
                                                  5B  DD 00036       PUSHL   CCB                                     ; 0900
                    00000000G       00            01  FB 00038       CALLS   #1, SYS$WAIT                            ;
                                                  5B  DD 0003F       PUSHL   CCB                                     ; 0901
                                    62            01  FB 00041       CALLS   #1, SYS$PUT                             ;
                                                  E6  11 00044       BRB     1$                                      ; 0898
                                    0A      08    AB  E8 00046 2$:   BLBS    8(CCB), 3$                              ; 0904
                                    7E            01  CE 0004A       MNEGL   #1, -(SP)                               ;
                    00000000G       00            01  FB 0004D       CALLS   #1, BAS$$STOP_IO                        ;
                           DA       AB            0B  B0 00054 3$:   MOVW    #11, -38(CCB)                           ; 0908
```

```
                B0    AB        EC    AB  D0 00058          MOVL    -20(CCB), -80(CCB)                      ; 0913
                      50        D2    AB  3C 0005D          MOVZWL  -46(CCB), R0                            ; 0914
                B4    AB        EC BB40   9E 00061          MOVAB   @-20(CCB)[R0], -76(CCB)                 ;
                                C8    AB  D4 00067          CLRL    -56(CCB)                                ; 0915
                                          04 0006A 4$:      RET                                             ; 0919

; Routine Size:  107 bytes,    Routine Base:  _BAS$CODE + 0000

;  209          0920  1
```

```
;  211          0921  1 GLOBAL ROUTINE BAS$$PUR_IO_ERR                    ! Purge terminal I/O
;  212          0922  1     : NOVALUE =
;  213          0923  1
;  214          0924  1 !++
;  215          0925  1 ! FUNCTIONAL DESCRIPTION:
;  216          0926  1 !
;  217          0927  1 !       This routine will PUT the contents of any terminal buffer.
;  218          0928  1 !       It is used just before printing an error message to be sure that
;  219          0929  1 !       the message appears after any output produced before the error
;  220          0930  1 !       condition.
;  221          0931  1 !
;  222          0932  1 ! FORMAL PARAMETERS:
;  223          0933  1 !
;  224          0934  1 !       NONE
;  225          0935  1 !
;  226          0936  1 ! IMPLICIT INPUTS:
;  227          0937  1 !
;  228          0938  1 !       LUB$V_OUTBUF_DR         Flag to indicate the output buffer has valid
;  229          0939  1 !                               data in it
;  230          0940  1 !
;  231          0941  1 ! IMPLICIT OUTPUTS:
;  232          0942  1 !
;  233          0943  1 !       LUB$V_OUTBUF_DR         Flag to indicate the output buffer has valid
;  234          0944  1 !       LUB$B_BAS_VFC2          'post' carriage control for PRN file format
;  235          0945  1 !                               data in it
;  236          0946  1 !
;  237          0947  1 ! ROUTINE VALUE:
;  238          0948  1 !
;  239          0949  1 !       NONE
;  240          0950  1 !
;  241          0951  1 ! SIDE EFFECTS:
;  242          0952  1 !
;  243          0953  1 !       NONE
;  244          0954  1 !
;  245          0955  1 !--
;  246          0956  1
;  247          0957  2     BEGIN
;  248          0958  2
;  249          0959  2     GLOBAL REGISTER
;  250          0960  2         CCB = K_CCB_REG : REF BLOCK [, BYTE];
;  251          0961  2
;  252          0962  2     LOCAL
;  253          0963  2         FLAG,
;  254          0964  2         LUN;
;  255          0965  2
;  256          0966  2 !+
;  257          0967  2 ! Scan through all logical units, purging the ones OPEN to a terminal.
;  258          0968  2 !-
;  259          0969  2     FLAG = 0;
;  260          0970  2
;  261          0971  2     DO
;  262          0972  3         BEGIN
;  263          0973  3 !+
;  264          0974  3 ! Get the next logical unit number.
;  265          0975  3 !-
;  266          0976  3         BAS$$NEXT_LUN (FLAG, LUN);
;  267          0977  3
```

```
;  268          0978  4          IF (.FLAG NEQ 0)
;  269          0979  3          THEN
;  270          0980  4              BEGIN
;  271          0981  4      !+
;  272          0982  4      ! LUN is the next logical unit number.  If the file it represents is
;  273          0983  4      ! open to a terminal, purge it.
;  274          0984  4      !-
;  275          0985  4              BAS$$CB_PUSH (.LUN, LUB$K_ILUN_MIN);
;  276          0986  4
;  277          0987  5              IF (.CCB [LUB$V_OPENED] AND .CCB [LUB$V_UNIT_0] AND .CCB [LUB$V_FORCIBLE])
;  278          0988  4              THEN
;  279          0989  4                  BAS$$PUR_IO_CLO ();
;  280          0990  4
;  281          0991  4              BAS$$CB_POP ();
;  282          0992  3              END;
;  283          0993  3
;  284          0994  3          END
;  285          0995  2      UNTIL (.FLAG EQL 0);
;  286          0996  2
;  287          0997  2      RETURN;
;  288          0998  1      END;                                    !End of BAS$$PUR_IO_ERR



                                  0804 00000          .ENTRY  BAS$$PUR_IO_ERR, Save R2,R11                    ; 0921
                              5E  08  C2 00002        SUBL2   #8, SP                                          ;
                          04      AE  D4 00005        CLRL    FLAG                                            ; 0969
                              5E  DD 00008 1$:        PUSHL   SP                                              ; 0976
                          08      AE  9F 0000A        PUSHAB  FLAG                                            ;
                 00000000G    00      02  FB 0000D    CALLS   #2, BAS$$NEXT_LUN                               ;
                          04      AE  D5 00014        TSTL    FLAG                                            ; 0978
                                  25  13 00017        BEQL    3$                                              ;
                      50          08  CE 00019        MNEGL   #8, R0                                          ; 0985
                      52          6E  D0 0001C        MOVL    LUN, R2                                         ;
                 00000000G    00      16  0001F      JSB     BAS$$CB_PUSH                                    ;
                      0F      FC  AB  E9 00025        BLBC    -4(CCB), 2$                                     ; 0987
                              FE  AB  95 00029        TSTB    -2(CCB)                                         ;
                                  0A  18 0002C        BGEQ    2$                                              ;
                  05      FE  AB      06  E1 0002E    BBC     #6, -2(CCB), 2$                                 ;
                        FF5D  CF      00  FB 00033    CALLS   #0, BAS$$PUR_IO_CLO                             ; 0989
                 00000000G    00      16  00038 2$:   JSB     BAS$$CB_POP                                     ; 0991
                          04      AE  D5 0003E 3$:    TSTL    FLAG                                            ; 0995
                                  C5  12 00041        BNEQ    1$                                              ;
                                      04 00043        RET                                                     ; 0998

; Routine Size:  68 bytes,    Routine Base:  _BAS$CODE + 006B

;  289          0999  1
;  290          1000  1 END                                         !End of module - BAS$$PUR_IO_BUF
;  291          1001  1
;  292          1002  0 ELUDOM
```

```
;                                PSECT SUMMARY

;      Name                     Bytes                          Attributes

;  _BAS$CODE                      175  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          9         0        581          00:01.2


;                                COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:BASPURIOB/OBJ=OBJ$:BASPURIOB MSRC$:BASPURIOB/UPDATE=(ENH$:BASPURIOB
;       )
; Size:         175 code + 0 data bytes
; Run Time:       00:09.1
; Elapsed Time:   00:22.4
; Lines/CPU Min:   6577
; Lexemes/CPU-Min: 35960
; Memory Used:  103 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

BASRSTSUB
LIS

BASRAD50
LIS

BASRSET
LIS

BASPUT
LIS

BASRECPRO
LIS

BASRESTAR
LIS

BASRANDOM
LIS

BASREMAP
LIS

BASRESTOR
LIS

BASRIGHT
LIS