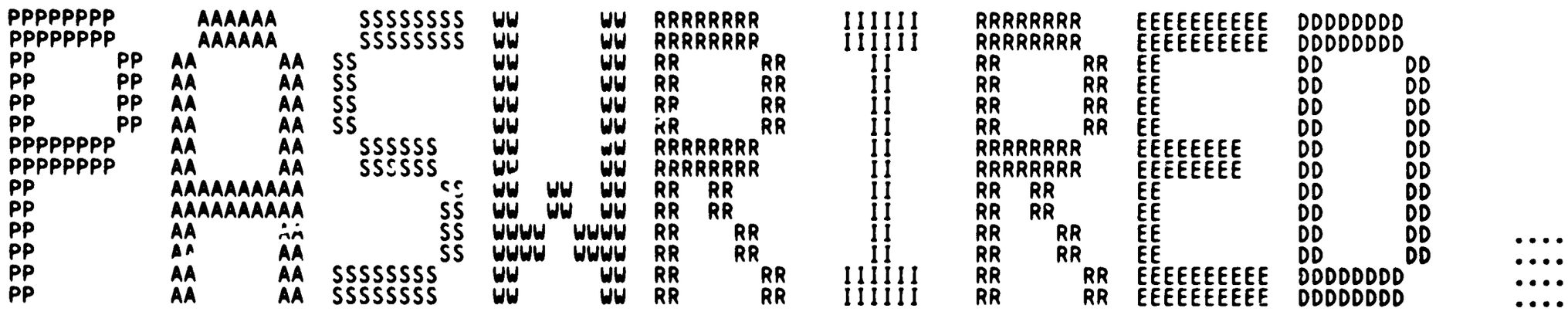
```
PPPPPPPPPPPP        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPPPPPPPPPPP        AAAAAAAAA        SSSSSSSSSSS  RRRRRRRRRRR     TTTTTTTTTTTTTTT  LLL
PPP          PPP   AAA         AAA  SSS          RRR         RRR        TTT        LLL
PPP          PPP   AAA         AAA  SSS          RRR         RRR        TTT        LLL
PPP          PPP   AAA         AAA  SSS          RRR         RRR        TTT        LLL
PPP          PPP   AAA         AAA  SSS          RRR         RRR        TTT        LLL
PPP          PPP   AAA         AAA  SSS          RRR         RRR        TTT        LLL
PPP          PPP   AAA         AAA  SSS          RRR         RRR        TTT        LLL
PPPPPPPPPPPP       AAA         AAA     SSSSSSSSS     RRRRRRRRRRR        TTT        LLL
PPPPPPPPPPPP       AAA         AAA     SSSSSSSSS     RRRRRRRRRRR        TTT        LLL
PPPPPPPPPPPP       AAA         AAA     SSSSSSSSS     RRRRRRRRRRR        TTT        LLL
PPP                AAAAAAAAAAAAAAA           SSS   RRR   RRR          TTT        LLL
PPP                AAAAAAAAAAAAAAA           SSS   RRR   RRR          TTT        LLL
PPP                AAAAAAAAAAAAAAA           SSS   RRR   RRR          TTT        LLL
PPP                AAA         AAA           SSS   RRR      RRR       TTT        LLL
PPP                AAA         AAA           SSS   RRR      RRR       TTT        LLL
PPP                AAA         AAA           SSS   RRR      RRR       TTT        LLL
PPP                AAA         AAA  SSSSSSSSSSS   RRR         RRR     TTT        LLLLLLLLLLLLLLL
PPP                AAA         AAA  SSSSSSSSSSS   RRR         RRR     TTT        LLLLLLLLLLLLLLL
PPP                AAA         AAA  SSSSSSSSSSS   RRR         RRR     TTT        LLLLLLLLLLLLLLL
PPP                AAA         AAA  SSSSSSSSSSS   RRR         RRR     TTT        LLLLLLLLLLLLLLL
```


PPPPPPPP AAAAAA SSSSSSSS WW WW RRRRRRRR IIIIII RRRRRRRR EEEEEEEEEE DDDDDDDD
PPPPPPPP AAAAAA SSSSSSSS WW WW RRRRRRRR IIIIII RRRRRRRR EEEEEEEEEE DDDDDDDD
PP PP AA AA SS WW WW RR RR II RR RR EE DD DD
PP PP AA AA SS WW WW RR RR II RR RR EE DD DD
PP PP AA AA SS WW WW RR RR II RR RR EE DD DD
PP PP AA AA SS WW WW RR RR II RR RR EE DD DD
PPPPPPPP AA AA SSSSSS WW WW RRRRRRRR II RRRRRRRR EEEEEEEE DD DD
PPPPPPPP AA AA SSSSSS WW WW RRRRRRRR II RRRRRRRR EEEEEEEE DD DD
PP AAAAAAAAAA SS WW WW WW RR RR II RR RR EE DD DD
PP AAAAAAAAAA SS WW WW WW RR RR II RR RR EE DD DD
PP AA AA SS WWWW WWWW RR RR II RR RR EE DD DD
PP AA AA SS WWWW WWWW RR RR II RR RR EE DD DD
PP AA AA SSSSSSSS WW WW RR RR IIIIII RR RR EEEEEEEEEE DDDDDDDD
PP AA AA SSSSSSSS WW WW RR RR IIIIII RR RR EEEEEEEEEE DDDDDDDD
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 PAS$WRITE_REALE_D ( %TITLE 'Write a D_floating in E format'
;     2          0002  0                      IDENT = '1-002'                     ! File: PASWRIRED.B32 Edit: SBL1002
;     3          0003  0                      ) =
;     4          0004  1 BEGIN
;     5          0005  1 !
;     6          0006  1 !**************************************************************************
;     7          0007  1 !*                                                                        *
;     8          0008  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                               *
;     9          0009  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                 *
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;    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   *
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;    20          0020  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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;    22          0022  1 !*                                                                        *
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;    24          0024  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                *
;    25          0025  1 !*                                                                        *
;    26          0026  1 !*                                                                        *
;    27          0027  1 !**************************************************************************
;    28          0028  1 !
;    29          0029  1
;    30          0030  1 !++
;    31          0031  1 ! FACILITY:     Pascal Language Support
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module contains a procedure which writes a D_floating in
;    36          0036  1 !       exponential notation to a textfile.
;    37          0037  1 !
;    38          0038  1 ! ENVIRONMENT:  User mode - AST reentrant
;    39          0039  1 !
;    40          0040  1 ! AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
;    41          0041  1 !
;    42          0042  1 ! MODIFIED BY:
;    43          0043  1 !
;    44          0044  1 ! 1-001 - Original.  SBL 1-April-1981
;    45          0045  1 ! 1-002 - Make total-width a longword.  SBL 30-Jun-1982
;    46          0046  1 !--
;    47          0047  1
```

```
;    49          0048  1 %SBTTL 'Declarations'
;    50          0049  1 !
;    51          0050  1 ! PROLOGUE DEFINITIONS:
;    52          0051  1 !
;    53          0052  1
;    54          0053  1 REQUIRE 'RTLIN:PASPROLOG';                    ! Externals, linkages, PSECTs, structures
;    55          0117  1
;    56          0118  1 !
;    57          0119  1 ! TABLE OF CONTENTS:
;    58          0120  1 !
;    59          0121  1
;    60          0122  1 FORWARD ROUTINE
;    61          0123  1     PAS$WRITE_REALE_D: NOVALUE,               ! Write to textfile
;    62          0124  1     PAS$WRITEV_REALE_D: NOVALUE;              ! Write to string
;    63          0125  1
;    64          0126  1 !
;    65          0127  1 ! MACROS:
;    66          0128  1 !
;    67          0129  1 !       NONE
;    68          0130  1 !
;    69          0131  1 ! EQUATED SYMBOLS:
;    70          0132  1 !
;    71          0133  1 !       NONE
;    72          0134  1 !
;    73          0135  1 ! FIELDS:
;    74          0136  1 !
;    75          0137  1 !       NONE
;    76          0138  1 !
;    77          0139  1 ! OWN STORAGE:
;    78          0140  1 !
;    79          0141  1 !       NONE
;    80          0142  1 !
```

```
;    82          0143  1 %SBTTL 'PAS$WRITE_REALE_D - Write D_floating in E format to textfile'
;    83          0144  1 GLOBAL ROUTINE PAS$WRITE_REALE_D (                          ! Write D_floating
;    84          0145  1         PFV: REF $PAS$PFV_FILE_VARIABLE,                   ! File variable
;    85          0146  1         VALUE_0,VALUE_1,                                   ! Value to write
;    86          0147  1         TOTAL_WIDTH: SIGNED,                               ! Total field width
;    87          0148  1         ERROR                                              ! Error unwind address
;    88          0149  1     ): NOVALUE =
;    89          0150  1
;    90          0151  1 !++
;    91          0152  1 ! FUNCTIONAL DESCRIPTION:
;    92          0153  1 !
;    93          0154  1 !       This procedure writes a D_floating value in exponential notation
;    94          0155  1 !       to the specified textfile.
;    95          0156  1 !
;    96          0157  1 ! CALLING SEQUENCE:
;    97          0158  1 !
;    98          0159  1 !       CALL PAS$WRITE_REALE_D (PFV.mr.r, VALUE.rd.v, TOTAL_WIDTH.rl.v
;    99          0160  1 !                               [ERROR.j.r])
;   100          0161  1 !
;   101          0162  1 ! FORMAL PARAMETERS:
;   102          0163  1 !
;   103          0164  1 !       PFV             - The Pascal File Variable (PFV) passed by reference.
;   104          0165  1 !                         The structure of the PFV is defined in PASPFV.REQ.
;   105          0166  1 !
;   106          0167  1 !       VALUE           - The D_floating value to write by immediate value.
;   107          0168  1 !                         Note that this requires two argument list positions.
;   108          0169  1 !
;   109          0170  1 !       TOTAL_WIDTH     - Total field width.
;   110          0171  1 !
;   111          0172  1 !       ERROR           - Optional.  Address to unwind to if an error occurs.
;   112          0173  1 !
;   113          0174  1 ! IMPLICIT INPUTS:
;   114          0175  1 !
;   115          0176  1 !       NONE
;   116          0177  1 !
;   117          0178  1 ! IMPLICIT OUTPUTS:
;   118          0179  1 !
;   119          0180  1 !       NONE
;   120          0181  1 !
;   121          0182  1 ! ROUTINE VALUE:
;   122          0183  1 !
;   123          0184  1 !       NONE
;   124          0185  1 !
;   125          0186  1 ! SIDE EFFECTS:
;   126          0187  1 !
;   127          0188  1 !       If the file is the standard file OUTPUT, it is implicitly opened.
;   128          0189  1 !
;   129          0190  1 ! SIGNALLED ERRORS:
;   130          0191  1 !
;   131          0192  1 !       LINTOOLON - line too long
;   132          0193  1 !       NEGWIDDIG - negative Width or Digits specification is not allowed
;   133          0194  1 !
;   134          0195  1 !--
;   135          0196  1
;   136          0197  2     BEGIN
;   137          0198  2
;   138          0199  2     LOCAL
```

```
;  139          0200  2          FCB: REF $PAS$FCB_CONTROL_BLOCK,                ! File control block
;  140          0201  2          FIELD_WIDTH: SIGNED,                            ! Minimum/actual width
;  141          0202  2          REMAINING_WIDTH,                                ! Maximum width
;  142          0203  2          PFV_ADDR: VOLATILE,                             ! Enable argument
;  143          0204  2          UNWIND_ACT: VOLATILE,                           ! Enable argument
;  144          0205  2          ERROR_ADDR: VOLATILE;                           ! Enable argument
;  145          0206  2
;  146          0207  2      BUILTIN
;  147          0208  2          ACTUALCOUNT;
;  148          0209  2
;  149          0210  2      ENABLE
;  150          0211  2          PAS$$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);     ! Enable error handler
;  151          0212  2
;  152          0213  2      !+
;  153          0214  2      ! Get ERROR parameter, if present.
;  154          0215  2      !-
;  155          0216  2
;  156          0217  2      IF ACTUALCOUNT () GEQU 5
;  157          0218  2      THEN
;  158          0219  2          ERROR_ADDR = .ERROR;            ! Set unwind address
;  159          0220  2
;  160          0221  2      PFV_ADDR = PFV [PFV$R_PFV];         ! Set PFV address
;  161          0222  2
;  162          0223  2      !+
;  163          0224  2      ! Validate PFV and get PFV.
;  164          0225  2      !-
;  165          0226  2
;  166          0227  2      PAS$$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
;  167          0228  2
;  168          0229  2      !+
;  169          0230  2      ! Set unwind action to unlock file.
;  170          0231  2      !-
;  171          0232  2
;  172          0233  2      UNWIND_ACT = PAS$K_UNWIND_UNLOCK;
;  173          0234  2
;  174          0235  2      !+
;  175          0236  2      ! Do common initialization.
;  176          0237  2      !-
;  177          0238  2
;  178          0239  2      PAS$$INIT_WRITE (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
;  179          0240  2
;  180          0241  2      !+
;  181          0242  2      ! Get field width and maximum width.  Ensure that field width is not
;  182          0243  2      ! negative.
;  183          0244  2      !-
;  184          0245  2
;  185          0246  2      FIELD_WIDTH = .TOTAL_WIDTH;
;  186          0247  2      IF .FIELD_WIDTH LSS 0
;  187          0248  2      THEN
;  188          0249  2          $PAS$IO_ERROR (PAS$_NEGWIDDIG,0);
;  189          0250  2      REMAINING_WIDTH = .FCB [FCB$A_RECORD_END] - .FCB [FCB$A_RECORD_CUR];
;  190          0251  2
;  191          0252  2      !+
;  192          0253  2      ! Do the convert.  If it fails, give an error.
;  193          0254  2      !-
;  194          0255  2
;  195          0256  2      IF NOT PAS$CVT_D_T (VALUE_0,                ! Value to convert
```

```
                                .FCB [FCB$A_RECORD_CUR],! Destination
                                FIELD_WIDTH,            ! Minimum/actual width
                                .REMAINING_WIDTH)       ! Maximum width
        THEN
            $PAS$IO_ERROR (PAS$_LINTOOLON,1,(.FIELD_WIDTH-.REMAINING_WIDTH));

        !+
        ! Advance the record pointer.
        !-

        FCB [FCB$A_RECORD_CUR] = .FCB [FCB$A_RECORD_CUR] + .FIELD_WIDTH;

        !+
        ! Call WRITE epilogue routine to move the last character written to the
        ! user's buffer and to unlock the file variable.
        !-

        PAS$$END_WRITE (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);

        RETURN;

        END;                                    ! End of routine PAS$WRITE_REALE_D

                                        .TITLE  PAS$WRITE_REALE_D Write a D_floating in E forma
                                                                  t
;                                       .IDENT  \1-002\

                                        .EXTRN  PAS$WRITE_REALE_D
                                        .EXTRN  PAS$WRITEV_REALE_D
                                        .EXTRN  PAS$$IO_HANDLER
                                        .EXTRN  PAS$$VALIDATE_PFV
                                        .EXTRN  PAS$$INIT_WRITE
                                        .EXTRN  PAS$$SIGNAL, PAS$K_NEGWIDDIG
                                        .EXTRN  PAS$CVT_D_T, PAS$K_LINTOOLON
                                        .EXTRN  PAS$$END_WRITE

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

                      01FC 00000        .ENTRY  PAS$WRITE_REALE_D, Save R2,R3,R4,R5,R6,R7,- ; 0144
                                                R8                                          ;
       58 00000000G  00  9E 00002       MOVAB   PAS$$SIGNAL, R8                             ;
       5E            10  C2 00009       SUBL2   #16, SP                                     ;
             04      AE  7C 0000C       CLRQ    ERROR_ADDR                                  ; 0197
             0C      AE  D4 0000F       CLRL    PFV_ADDR                                    ;
       6D      0067  CF  DE 00012       MOVAL   4$, (FP)                                    ;
       05            6C  91 00017       CMPB    (AP), #5                                    ; 0217
                     05  1F 0001A       BLSSU   1$                                          ;
  04   AE        14  AC  D0 0001C       MOVL    ERROR, ERROR_ADDR                           ; 0219
       56        04  AC  D0 00021 1$:   MOVL    PFV, R6                                     ; 0221
  0C   AE            56  D0 00025       MOVL    R6, PFV_ADDR                                ;
          00000000G  00  16 00029       JSB     PAS$$VALIDATE_PFV                           ; 0227
  08   AE            01  D0 0002F       MOVL    #1, UNWIND_ACT                              ; 0233
          00000000G  00  16 00033       JSB     PAS$$INIT_WRITE                             ; 0239
       6E        10  AC  D0 00039       MOVL    TOTAL_WIDTH, FIELD_WIDTH                    ; 0246
                     0A  18 0003D       BGEQ    2$                                          ; 0247
                     7E  D4 0003F       CLRL    -(SP)                                       ; 02
```

```
                                7E          00G  8F  9A 00041          MOVZBL  #PAS$K_NEGWIDDIG, -(SP)
                                68               02  FB 00045          CALLS   #2, PAS$$SIGNAL
                                                 04  00048          RET
                    52      F0  A7           EC  A7  C3 00049 2$:     SUBL3   -20(FCB), -16(FCB), REMAINING_WIDTH     ;0250
                                                 52  DD 0004F          PUSHL   REMAINING_WIDTH                         ;0259
                                             04  AE  9F 00051          PUSHAB  FIELD_WIDTH                             ;0256
                                             EC  A7  DD 00054          PUSHL   -20(FCB)                                ;0257
                                             08  AC  9F 00057          PUSHAB  VALUE_0                                 ;0256
                        00000000G   00           04  FB 0005A          CALLS   #4, PAS$CVT_D_T
                                    0E           50  E8 00061          BLBS    R0, 3$
                    7E              6E           52  C3 00064          SUBL3   REMAINING_WIDTH, FIELD_WIDTH, -(SP)     ;0261
                                                 01  DD 00068          PUSHL   #1
                                7E          00G  8F  9A 0006A          MOVZBL  #PAS$K_LINTOOLON, -(SP)
                                68               03  FB 0006E          CALLS   #3, PAS$$SIGNAL
                                                 04  00071          RET
                            EC  A7                   6E  C0 00072 3$:     ADDL2   FIELD_WIDTH, -20(FCB)               ;0267
                                        00000000G   00  16 00076          JSB     PAS$$END_WRITE                      ;0274
                                                 04  0007C          RET                                             ;0278
                                                 0000 0007D 4$:       .WORD   Save nothing                            ;0197
                                50          08   AC  D0 0007F          MOVL    8(AP), R0
                                50          04   A0  D0 00083          MOVL    4(R0), R0
                                            F4   A0  9F 00087          PUSHAB  ERROR_ADDR
                                            F8   A0  9F 0008A          PUSHAB  UNWIND_ACT
                                            FC   A0  9F 0008D          PUSHAB  PFV_ADDR
                                                 03  DD 00090          PUSHL   #3
                                                 5E  DD 00092          PUSHL   SP
                                7E          04   AC  7D 00094          MOVQ    4(AP), -(SP)
                        00000000G   00           03  FB 00098          CALLS   #3, PAS$$IO_HANDLER
                                                 04  0009F          RET

; Routine Size:  160 bytes,    Routine Base:  _PAS$CODE + 0000

;  218          0279  1
;  219          0280  1 !<BLF/PAGE>
```

```
;  221          0281  1 %SBTTL 'PAS$WRITEV_REALE_D - Write D_floating in E format to string'
;  222          0282  1 GLOBAL ROUTINE PAS$WRITEV_REALE_D (
;  223          0283  1         MAX_LENGTH: WORD,                              ! Maximum length of string
;  224          0284  1         STRING_LINE: REF VECTOR [, WORD],              ! String to write to
;  225          0285  1         VALUE0,VALUE1,                                 ! Value to write
;  226          0286  1         TOTAL_WIDTH: SIGNED,                           ! Total field width
;  227          0287  1         ERROR                                          ! Error unwind address
;  228          0288  1     ) : NOVALUE =
;  229          0289  1
;  230          0290  1 !++
;  231          0291  1 ! FUNCTIONAL DESCRIPTION:
;  232          0292  1 !
;  233          0293  1 !       This procedure writes a D_floating in exponential format
;  234          0294  1 !       to the specified string.
;  235          0295  1 !
;  236          0296  1 ! CALLING SEQUENCE:
;  237          0297  1 !
;  238          0298  1 !       CALL PAS$WRITEV_REALE_D (MAX_LENGTH.rw.v, STRING_LINE.wvt.r,
;  239          0299  1 !          VALUE.rd.v, TOTAL_WIDTH.rw.v [, ERROR.j.r])
;  240          0300  1 !
;  241          0301  1 ! FORMAL PARAMETERS:
;  242          0302  1 !
;  243          0303  1 !       MAX_LENGTH      - The maximum length of STRING_LINE.
;  244          0304  1 !
;  245          0305  1 !       STRING_LINE     - A varying string to which the output will be appended.
;  246          0306  1 !
;  247          0307  1 !       VALUE           - The value to write.  Note that the D_floating value
;  248          0308  1 !                         is passed by immediate value in two argument list
;  249          0309  1 !                         entries.
;  250          0310  1 !
;  251          0311  1 !       TOTAL_WIDTH     - The width of the field to write.
;  252          0312  1 !
;  253          0313  1 !       ERROR           - Optional.  If specified, the address to unwind to
;  254          0314  1 !                         in case of an error.
;  255          0315  1 !
;  256          0316  1 ! IMPLICIT INPUTS:
;  257          0317  1 !
;  258          0318  1 !       NONE
;  259          0319  1 !
;  260          0320  1 ! IMPLICIT OUTPUTS:
;  261          0321  1 !
;  262          0322  1 !       NONE
;  263          0323  1 !
;  264          0324  1 ! ROUTINE VALUE:
;  265          0325  1 !
;  266          0326  1 !       NONE
;  267          0327  1 !
;  268          0328  1 ! SIDE EFFECTS:
;  269          0329  1 !
;  270          0330  1 !       NONE
;  271          0331  1 !
;  272          0332  1 ! SIGNALLED ERRORS:
;  273          0333  1 !
;  274          0334  1 !       See PAS$WRITE_REALE_D
;  275          0335  1 !
;  276          0336  1 !--
;  277          0337  1
```

```
;  278          0338  2     BEGIN
;  279          0339  2
;  280          0340  2     LOCAL
;  281          0341  2         PFV: $PAS$PFV_FILE_VARIABLE,    ! Pascal File Variable
;  282          0342  2         ARG_LIST: VECTOR [5, LONG],     ! Argument list
;  283          0343  2         PFV_ADDR: VOLATILE,             ! Enable argument
;  284          0344  2         UNWIND_ACT: VOLATILE,           ! Enable argument
;  285          0345  2         ERROR_ADDR: VOLATILE;           ! Enable argument
;  286          0346  2
;  287          0347  2     BUILTIN
;  288          0348  2         ACTUALCOUNT;                    ! Count of arguments
;  289          0349  2
;  290          0350  2     ENABLE
;  291          0351  2         PAS$$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);     ! Enable error handler
;  292          0352  2
;  293          0353  2     !+
;  294          0354  2     ! Get ERROR parameter, if present.
;  295          0355  2     !-
;  296          0356  2
;  297          0357  2     IF ACTUALCOUNT () GEQU 6
;  298          0358  2     THEN
;  299          0359  2         ERROR_ADDR = .ERROR;            ! Set unwind address
;  300          0360  2
;  301          0361  2     PFV_ADDR = PFV [PFV$R_PFV];         ! Set PFV address
;  302          0362  2
;  303          0363  2     !+
;  304          0364  2     ! Set up ARG_LIST.
;  305          0365  2     !-
;  306          0366  2
;  307          0367  2     ARG_LIST [0] = 4;                   ! Four arguments
;  308          0368  2     ARG_LIST [1] = PFV [PFV$R_PFV];     ! PFV address
;  309          0369  2     ARG_LIST [2] = .VALUE0;             ! Value to write
;  310          0370  2     ARG_LIST [3] = .VALUE1;             !
;  311          0371  2     ARG_LIST [4] = .TOTAL_WIDTH;        ! Field width
;  312          0372  2
;  313          0373  2     !+
;  314          0374  2     ! Call PAS$$DO_WRITEV to do the work, giving it the address of
;  315          0375  2     ! PAS$WRITE_REALE_D to call.
;  316          0376  2     !-
;  317          0377  2
;  318          0378  2     PAS$$DO_WRITEV (PFV [PFV$R_PFV], .MAX_LENGTH, STRING_LINE [0], ARG_LIST,
;  319          0379  2         PAS$WRITE_REALE_D);
;  320          0380  2
;  321          0381  2     RETURN;
;  322          0382  2
;  323          0383  1     END;                                ! End of routine PAS$WRITEV_REALE_D


                                                .EXTRN  PAS$$DO_WRITEV

                                    007C 00000  .ENTRY  PAS$WRITEV_REALE_D, Save R2,R3,R4,R5,R6     ; 0282
                          5E            2C  C2 00002  SUBL2  #44, SP                                ;
                                        7E  D4 00005  CLRL   ERROR_ADDR                             ; 0338
                                  04    AE  7C 00007  CLRQ   UNWIND_ACT                             ;
                          6D      003E  CF  DE 0000A  MOVAL  2$, (FP)                               ;
                          06            6C  91 0000F  CMPB   (AP), #6                               ; 0357
```

```
                                04  1F 00012         BLSSU   1$                                  ;
          6E           18       AC  D0 00014         MOVL    ERROR, ERROR_ADDR                   ; 0359
     08   AE           20       AE  9E 00018 1$:     MOVAB   PFV, PFV_ADDR                       ; 0361
     0C   AE                    04  D0 0001D         MOVL    #4, ARG_LIST                        ; 0367
     10   AE           20       AE  9E 00021         MOVAB   PFV, ARG_LIST+4                     ; 0368
     14   AE           0C       AC  7D 00026         MOVQ    VALUE0, ARG_LIST+8                  ; 0369
     1C   AE           14       AC  D0 0002B         MOVL    TOTAL_WIDTH, ARG_LIST+16            ; 0371
          55         FF2C       CF  9E 00030         MOVAB   PAS$WRITE_REALE_D, R5               ; 0378
          54           0C       AE  9E 00035         MOVAB   ARG_LIST, R4                        ;
          56           20       AE  9E 00039         MOVAB   PFV, R6                             ;
          53           08       AC  D0 0003D         MOVL    STRING_LINE, R3                     ;
          52           04       AC  3C 00041         MOVZWL  MAX_LENGTH, R2                      ;
                0000000G        00  16 00045         JSB     PAS$$DO_WRITEV                      ;
                                    04 0004B         RET                                         ; 0383
                                  0000 0004C 2$:     .WORD   Save nothing                        ; 0338
          50           08       AC  D0 0004E         MOVL    8(AP), R0                           ;
          50           04       A0  D0 00052         MOVL    4(R0), R0                           ;
                       D0       A0  9F 00056         PUSHAB  ERROR_ADDR                          ;
                       D4       A0  9F 00059         PUSHAB  UNWIND_ACT                          ;
                       D8       A0  9F 0005C         PUSHAB  PFV_ADDR                            ;
                                03  DD 0005F         PUSHL   #3                                  ;
                                5E  DD 00061         PUSHL   SP                                  ;
          7E           04       AC  7D 00063         MOVQ    4(AP), -(SP)                        ;
 00000000G  00                  03  FB 00067         CALLS   #3, PAS$$IO_HANDLER                 ;
                                    04 0006E         RET                                         ;

; Routine Size:  111 bytes,    Routine Base:  _PAS$CODE + 00A0


;  324          0384  1
;  325          0385  1 !<BLF/PAGE>
```

```
;  327          0386  1 END                                    ! End of module PAS$WRITE_REALE_D
;  328          0387  1
;  329          0388  0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
_PAS$CODE	271	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Symbols Total	Symbols Loaded	Symbols Percent	Pages Mapped	Processing Time
_255DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:01.0
_255DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	97	22	33	00:00.4

COMMAND QUALIFIERS

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

;  330          0389  0
; Size:         271 code + 0 data bytes
; Run Time:        00:07.2
; Elapsed Time:    00:17.7
; Lines/CPU Min:    3228
; Lexemes/CPU-Min: 12721
; Memory Used:  80 pages
; Compilation Complete
```

PASWRIREH LIS

PASWRITEL LIS

PASWRIREG LIS

PATDEF MDL

PASWRISTR LIS

PATCH

PASWRIREF LIS

PATCH MAP

SRMDEF MDL

PASWRIRFH LIS

PASWRIVAR LIS

PASWRIRED LIS

PASWRIUNS LIS

PASWRIINT LIS

PASWRIOCT LIS

PASWRIRFG LIS

BSTRUC REQ

PASWRIRFF LIS

CHRKEY REQ

PASWRIRFD LIS