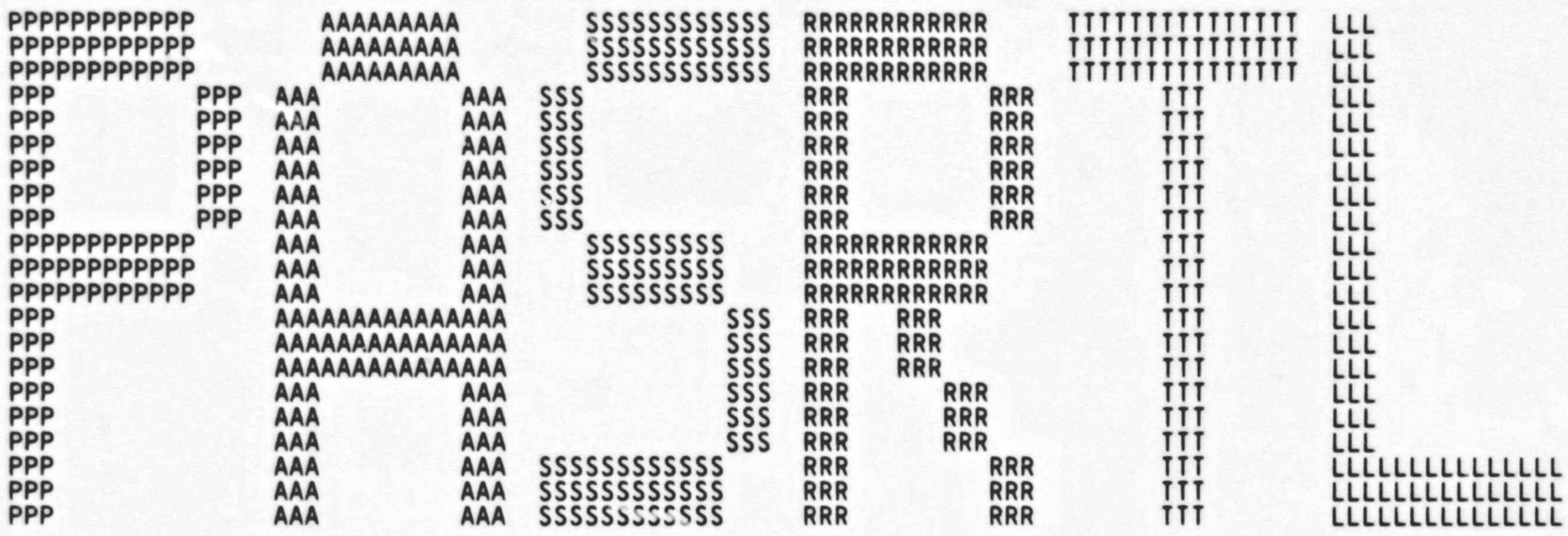
PPPPPPPPPPPP AAAAAAAAA SSSSSSSSSSS RRRRRRRRRRR TTTTTTTTTTTTTTT LLL
PPP PPP AAA AAA SSS RRR RRR TTT LLL
PPPPPPPPPPPP AAAAAAAAAAAAAAA SSS RRR RRR TTT LLL
PPP AAA AAA SSSSSSSSS RRRRRRRRRRR TTT LLL
PPP AAAAAAAAAAAAAAA SSS RRR RRR TTT LLL
PPP AAA AAA SSS RRR RRR TTT LLL
PPP AAA AAA SSSSSSSSSSS RRR RRR TTT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

```
PPPPPPPP      AAAAAA      SSSSSSSS  RRRRRRRR    EEEEEEEEEE  WW      WW  RRRRRRRR      IIIIII    TTTTTTTTTT
PPPPPPPP      AAAAAA      SSSSSSSS  RRRRRRRR    EEEEEEEEEE  WW      WW  RRRRRRRR      IIIIII    TTTTTTTTTT
PP       PP  AA      AA  SS        RR      RR  EE          WW      WW  RR      RR      II          TT
PP       PP  AA      AA  SS        RR      RR  EE          WW      WW  RR      RR      II          TT
PP       PP  AA      AA  SS        RR      RR  EE          WW      WW  RR      RR      II          TT
PP       PP  AA      AA  SS        RR      RR  EE          WW      WW  RR      RR      II          TT
PPPPPPPP     AA      AA    SSSSSS  RRRRRRRR    EEEEEEEE    WW      WW  RRRRRRRR      II          TT
PPPPPPPP     AA      AA    SSSSSS  RRRRRRRR    EEEEEEEE    WW      WW  RRRRRRRR      II          TT
PP           AAAAAAAAAA          SS  RR  RR      EE        WW  WW  WW  RR  RR        II          TT
PP           AAAAAAAAAA          SS  RR  RR      EE        WW  WW  WW  RR  RR        II          TT
PP           AA      AA          SS  RR    RR    EE        WWWW  WWWW  RR    RR      II          TT          ....
PP           AA      AA          SS  RR    RR    EE        WWWW  WWWW  RR    RR      II          TT          ....
PP           AA      AA  SSSSSSSS  RR      RR  EEEEEEEEEE  WW      WW  RR      RR  IIIIII      TT          ....
PP           AA      AA  SSSSSSSS  RR      RR  EEEEEEEEEE  WW      WW  RR      RR  IIIIII      TT          ....

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$REWRITE2 ( %TITLE 'REWRITE procedure'
;     2          0002  0                 IDENT = '1-004'         ! File: PASREWRIT.B32 Edit: SBL1004
;     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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;    14          0014  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
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;    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:     Pascal Language Support
;    32          0032  1 !
;    33          0033  1 ! ABSTRACT:
;    34          0034  1 !
;    35          0035  1 !       This module contains PAS$REWRITE2, which implements the
;    36          0036  1 !       VAX-11 Pascal REWRITE procedure.
;    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 - Set FAB$V_TEF if $TRUNCATE successful on sequential files.  SBL 8-July-1982
;    46          0046  1 ! 1-003 - Don't $REWIND, etc., unless file is a disk or tape.  SBL 29-July-1982
;    47          0047  1 ! 1-004 - Clear RAB$V_NLK.  SBL 8-Apr-1983
;    48          0048  1 !--
;    49          0049  1
```

```
;    51          0050  1 %SBTTL 'Declarations'
;    52          0051  1 !
;    53          0052  1 ! PROLOGUE DEFINITIONS:
;    54          0053  1 !
;    55          0054  1
;    56          0055  1 REQUIRE 'RTLIN:PASPROLOG';                  ! Externals, linkages, PSECTs, structures
;    57          0119  1
;    58          0120  1 !
;    59          0121  1 ! TABLE OF CONTENTS:
;    60          0122  1 !
;    61          0123  1
;    62          0124  1 FORWARD ROUTINE
;    63          0125  1     PAS$REWRITE2: NOVALUE;                  ! Do a REWRITE
;    64          0126  1
;    65          0127  1 !
;    66          0128  1 ! MACROS:
;    67          0129  1 !
;    68          0130  1 !       NONE
;    69          0131  1 !
;    70          0132  1 ! EQUATED SYMBOLS:
;    71          0133  1 !
;    72          0134  1 !       NONE
;    73          0135  1 !
;    74          0136  1 ! FIELDS:
;    75          0137  1 !
;    76          0138  1 !       NONE
;    77          0139  1 !
;    78          0140  1 ! OWN STORAGE:
;    79          0141  1 !
;    80          0142  1 !       NONE
```

```
;    82          0143  1 %SBTTL 'PAS$REWRITE2 - REWRITE procedure'
;    83          0144  1 GLOBAL ROUTINE PAS$REWRITE2 (                          ! Do a REWRITE
;    84          0145  1         PFV: REF $PAS$PFV_FILE_VARIABLE,               ! File variable
;    85          0146  1         ERROR                                          ! Error unwind address
;    86          0147  1     ): NOVALUE =
;    87          0148  1
;    88          0149  1 !++
;    89          0150  1 ! FUNCTIONAL DESCRIPTION:
;    90          0151  1 !
;    91          0152  1 !       PAS$REWRITE2 implements the VAX-11 Pascal REWRITE procedure.  It
;    92          0153  1 !       opens the file if not already open, deletes all data from the file,
;    93          0154  1 !       and enters Generation mode.
;    94          0155  1 !
;    95          0156  1 ! CALLING SEQUENCE:
;    96          0157  1 !
;    97          0158  1 !       CALL PAS$REWRITE2 (PFV.mr.r [, ERROR.j.r])
;    98          0159  1 !
;    99          0160  1 ! FORMAL PARAMETERS:
;   100          0161  1 !
;   101          0162  1 !       PFV             - The Pascal File Variable (PFV) passed by reference.
;   102          0163  1 !                         The structure of the PFV is defined in PASPFV.REQ.
;   103          0164  1 !
;   104          0165  1 !       ERROR           - Optional.  If specified, the address to unwind to in
;   105          0166  1 !                         case of an error.
;   106          0167  1 !
;   107          0168  1 ! IMPLICIT INPUTS:
;   108          0169  1 !
;   109          0170  1 !       NONE
;   110          0171  1 !
;   111          0172  1 ! IMPLICIT OUTPUTS:
;   112          0173  1 !
;   113          0174  1 !       NONE
;   114          0175  1 !
;   115          0176  1 ! ROUTINE VALUE:
;   116          0177  1 !
;   117          0178  1 !       NONE
;   118          0179  1 !
;   119          0180  1 ! SIDE EFFECTS:
;   120          0181  1 !
;   121          0182  1 !       Throws away partial line, if any.
;   122          0183  1 !       Deletes all data from the file.
;   123          0184  1 !       Positions to the beginning of the file.
;   124          0185  1 !       Enters Generation mode.
;   125          0186  1 !
;   126          0187  1 ! SIGNALLED ERRORS:
;   127          0188  1 !
;   128          0189  1 !       REWNOTALL - REWRITE not allowed without exclusive access
;   129          0190  1 !       ERRDURREW - error during REWRITE
;   130          0191  1 !       GENNOTALL - Generation mode not allowed
;   131          0192  1 !
;   132          0193  1 !--
;   133          0194  1
;   134          0195  2     BEGIN
;   135          0196  2
;   136          0197  2     LOCAL
;   137          0198  2         FCB: REF $PAS$FCB_CONTROL_BLOCK,               ! File control block
;   138          0199  2         PFV_ADDR: VOLATILE,                            ! Enable argument
```

```
;  139     0200  2          UNWIND_ACT: VOLATILE,                                   ! Enable argument
;  140     0201  2          ERROR_ADDR: VOLATILE;                                   ! Enable argument
;  141     0202  2
;  142     0203  2      BIND
;  143     0204  2          RAB = FCB: REF BLOCK [, BYTE],                          ! RAB is also FCB address
;  144     0205  2          FAB = FCB: REF $PAS$FAB_FCB_STRUCT,                     ! FAB is based on FCB
;  145     0206  2          NAM = FCB: REF $PAS$NAM_FCB_STRUCT;                     ! NAM is based on FCB
;  146     0207  2
;  147     0208  2      BUILTIN
;  148     0209  2          ACTUALCOUNT,
;  149     0210  2          TESTBITSS;
;  150     0211  2
;  151     0212  2      ENABLE
;  152     0213  2          PAS$$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);     ! Enable error handler
;  153     0214  2
;  154     0215  2      IF ACTUALCOUNT () GEQU 2
;  155     0216  2      THEN
;  156     0217  2          ERROR_ADDR = .ERROR;            ! Set unwind address
;  157     0218  2
;  158     0219  2      !+
;  159     0220  2      ! Set enable argument for PFV address.
;  160     0221  2      !-
;  161     0222  2
;  162     0223  2      PFV_ADDR = PFV [PFV$R_PFV];
;  163     0224  2
;  164     0225  2      !+
;  165     0226  2      ! Validate and lock PFV.
;  166     0227  2      !-
;  167     0228  2
;  168     0229  2      PAS$$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
;  169     0230  2
;  170     0231  2      !+
;  171     0232  2      ! Set unwind action to unlock file.
;  172     0233  2      !-
;  173     0234  2
;  174     0235  2      UNWIND_ACT = PAS$K_UNWIND_UNLOCK;
;  175     0236  2
;  176     0237  2      !+
;  177     0238  2      ! Open file if it should be implicitly opened.
;  178     0239  2      !-
;  179     0240  2
;  180     0241  2      IF NOT .PFV [PFV$V_VALID]
;  181     0242  2      THEN
;  182     0243  2          PAS$$OPEN_IMPLICIT (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
;  183     0244  2
;  184     0245  2      !+
;  185     0246  2      ! See if the file is open.  If not, open it.
;  186     0247  2      !-
;  187     0248  2
;  188     0249  2      IF NOT .PFV [PFV$V_OPEN]    ! Not open
;  189     0250  2      THEN
;  190     0251  2          PAS$$OPEN (PFV [PFV$R_PFV], PAS$K_HISTORY_NEW; FCB);
;  191     0252  2
;  192     0253  2      !+
;  193     0254  2      ! If the file has the NOWRITE attribute, signal an error.
;  194     0255  2      !-
;  195     0256  2
```

```
;  196          0257  2      IF .FCB [FCB$V_NOWRITE]
;  197          0258  2      THEN
;  198          0259  2          $PAS$IO_ERROR (PAS$_GENNOTALL,0);       ! Generation mode not allowed
;  199          0260  2
;  200          0261  2      !+
;  201          0262  2      ! If a textfile, and if in Generation mode, and if the buffer
;  202          0263  2      ! is not empty, do a WRITELN.
;  203          0264  2      !-
;  204          0265  2
;  205          0266  2      IF .FCB [FCB$V_TEXT] AND .FCB [FCB$V_GENERATION] AND
;  206          0267  3          (.FCB [FCB$A_RECORD_CUR] GTRA .FCB [FCB$A_RECORD_BEG])
;  207          0268  2      THEN
;  208          0269  2          PAS$$WRITELN (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);
;  209          0270  2
;  210          0271  2      !+
;  211          0272  2      ! Cancel any lazy lookahead in progress.
;  212          0273  2      !-
;  213          0274  2
;  214          0275  2      FCB [FCB$V_LAZY] = 0;
;  215          0276  2
;  216          0277  2      !+
;  217          0278  2      ! Clear RAB$V_NLK which may have been set by PAS$GET_UNLOCK.
;  218          0279  2      !-
;  219          0280  2
;  220          0281  2      RAB [RAB$V_NLK] = 0;
;  221          0282  2
;  222          0283  2      !+
;  223          0284  2      ! Is the device a file oriented device and not process-permanent?
;  224          0285  2      ! If so, proceed with rewind.
;  225          0286  2      !-
;  226          0287  2
;  227          0288  2      IF .FCB [FCB$V_FOD] AND NOT .NAM [NAM$V_PPF]
;  228          0289  2      THEN
;  229          0290  3          BEGIN
;  230          0291  3
;  231          0292  3          !+
;  232          0293  3          ! If this is a sequential organization file, we rewind and truncate.
;  233          0294  3          ! For relative and indexed organizations, we must rewind and delete
;  234          0295  3          ! every record.
;  235          0296  3          !-
;  236          0297  3
;  237          0298  3          RAB [RAB$B_RAC] = RAB$C_SEQ; ! Set sequential access
;  238          0299  3          RAB [RAB$B_KRF] = 0;     ! Rewind primary key if indexed
;  239          0300  4          IF NOT $PAS$RMS_OP ($REWIND (RAB=.RAB))
;  240          0301  3          THEN
;  241          0302  3              IF .RAB [RAB$L_STS] NEQ RMS$_IOP AND        ! Inappropriate operation
;  242          0303  3                 .RAB [RAB$L_STS] NEQ RMS$_EOF AND        ! End of file
;  243          0304  3                 .RAB [RAB$L_STS] NEQ RMS$_BOF            ! Already at beginning of file
;  244          0305  3              THEN
;  245          0306  3                  $PAS$IO_ERROR (PAS$_ERRDURREW);         ! Error during REWRITE
;  246          0307  3
;  247          0308  3          !+
;  248          0309  3          ! The file is now rewound.  If we got RMS$_IOP, there's nothing
;  249          0310  3          ! more we need to do.  Otherwise, split on the file organization
;  250          0311  3          ! to either truncate the file or delete all records.
;  251          0312  3          !-
;  252          0313  3
```

```
;   253     0314  3          IF .RAB [RAB$L_STS] NEQ RMS$_IOP
;   254     0315  3          THEN
;   255     0316  4              BEGIN
;   256     0317  4              !+
;   257     0318  4              ! Split depending on file organization
;   258     0319  4              !-
;   259     0320  4              IF .FAB [FAB$B_ORG] EQL FAB$C_SEQ   ! Sequential
;   260     0321  4              THEN
;   261     0322  5                  BEGIN
;   262     0323  6                  IF NOT $PAS$RMS_OP ($GET (RAB=.RAB))    ! Read first record, if any
;   263     0324  5                  THEN
;   264     0325  6                      BEGIN
;   265     0326  6                      IF .RAB [RAB$L_STS] NEQ RMS$_EOF    ! End of file?
;   266     0327  6                      THEN
;   267     0328  6                          $PAS$IO_ERROR (PAS$_ERRDURREW); ! Error during REWRITE
;   268     0329  6                      END
;   269     0330  5                  ELSE
;   270     0331  6                      BEGIN
;   271     0332  6                      !+
;   272     0333  6                      ! GET succeeded.  Do a $TRUNCATE.
;   273     0334  6                      !-
;   274     0335  6
;   275     0336  7                      IF NOT $PAS$RMS_OP ($TRUNCATE (RAB=.RAB))
;   276     0337  6                      THEN
;   277     0338  6                          $PAS$IO_ERROR (PAS$_ERRDURREW); ! Error during REWRITE
;   278     0339  6
;   279     0340  5                      END;
;   280     0341  5
;   281     0342  5                  !+
;   282     0343  5                  ! So far, all we've done is set the end-of-file mark to the
;   283     0344  5                  ! beginning of the file.  The allocated space is still there.
;   284     0345  5                  ! Set FAB$V_TEF so that all unused allocated space will be
;   285     0346  5                  ! returned when the file is closed.
;   286     0347  5                  !-
;   287     0348  5
;   288     0349  5                  FAB [FAB$V_TEF] = 1;
;   289     0350  5
;   290     0351  5                  END
;   291     0352  4              ELSE
;   292     0353  5                  BEGIN
;   293     0354  5                  !+
;   294     0355  5                  ! Relative and Indexed organizations.  Get and Delete all
;   295     0356  5                  ! records.
;   296     0357  5                  !-
;   297     0358  5
;   298     0359  5                  !+
;   299     0360  5                  ! Do an initial $GET to see if the file is empty.
;   300     0361  5                  !-
;   301     0362  5
;   302     0363  6                  IF NOT $PAS$RMS_OP ($GET (RAB=.RAB))
;   303     0364  5                  THEN
;   304     0365  6                      BEGIN
;   305     0366  6                      !+
;   306     0367  6                      ! If file is empty, then don't do anything else.
;   307     0368  6                      ! Otherwise, we'll have to require that the user have
;   308     0369  6                      ! exclusive access to the file.
;   309     0370  6                      !-
```

```
;  310     0371  6
;  311     0372  6                    IF .RAB [RAB$L_STS] NEQ RMS$_EOF
;  312     0373  6                    THEN
;  313     0374  6                        $PAS$IO_ERROR (PAS$_ERRDURREW); ! Error during REWRITE
;  314     0375  6                    END
;  315     0376  5                ELSE
;  316     0377  6                    BEGIN
;  317     0378  6                    !+
;  318     0379  6                    ! We can only scratch the data in the file if we have exclusive
;  319     0380  6                    ! access to it.  If not, give an error
;  320     0381  6                    !-
;  321     0382  6
;  322     0383  6                    IF NOT .FAB [FAB$V_NIL]
;  323     0384  6                    THEN
;  324     0385  6                        $PAS$IO_ERROR (PAS$_REWNOTALL); ! REWRITE not allowed
;  325     0386  6
;  326     0387  6                    WHILE 1 DO
;  327     0388  7                        BEGIN
;  328     0389  8                        IF NOT $PAS$RMS_OP ($DELETE (RAB=.RAB))
;  329     0390  7                        THEN
;  330     0391  7                            $PAS$IO_ERROR (PAS$_ERRDURREW);     ! Error during REWRITE
;  331     0392  8                        IF NOT $PAS$RMS_OP ($GET (RAB=.RAB))
;  332     0393  7                        THEN
;  333     0394  8                            BEGIN
;  334     0395  8                            IF .RAB [RAB$L_STS] EQL RMS$_EOF
;  335     0396  8                            THEN
;  336     0397  8                                EXITLOOP
;  337     0398  8                            ELSE
;  338     0399  8                                $PAS$IO_ERROR (PAS$_ERRDURREW); ! Error during REWRITE
;  339     0400  7                            END;
;  340     0401  6                        END;
;  341     0402  5                    END;
;  342     0403  4                END;
;  343     0404  3            END;
;  344     0405  3
;  345     0406  3            !+
;  346     0407  3            ! Rewind again to put us at the beginning.
;  347     0408  3            !-
;  348     0409  3
;  349     0410  3            $PAS$RMS_OP ($REWIND (RAB=.RAB));       ! Ignore return status
;  350     0411  2            END;
;  351     0412  2
;  352     0413  2        !+
;  353     0414  2        ! Set Generation mode.  Reset buffer pointers.
;  354     0415  2        ! Set "truncate-on-put" so that first $PUT will succeed to a magtape.
;  355     0416  2        ! An RMS restriction prevents ordinary $PUTs from succeeding if the
;  356     0417  2        ! magtape file is empty.  This bit will be cleared after the first
;  357     0418  2        ! $PUT.  It is ignored for non-sequential $PUTs.
;  358     0419  2        !-
;  359     0420  2
;  360     0421  2        FCB [FCB$V_INSPECTION] = 0;
;  361     0422  2        FCB [FCB$V_GENERATION] = 1;
;  362     0423  2        FCB [FCB$A_RECORD_BEG] = .RAB [RAB$L_UBF];
;  363     0424  2        FCB [FCB$A_RECORD_CUR] = .FCB [FCB$A_RECORD_BEG];
;  364     0425  2        FCB [FCB$L_RECORD_LEN] = .RAB [RAB$W_USZ];
;  365     0426  2        FCB [FCB$A_RECORD_END] = .FCB [FCB$A_RECORD_BEG] + .FCB [FCB$L_RECORD_LEN];
;  366     0427  2        FCB [FCB$V_EOF] = 1;
```

```
;  367          0428  2     FCB [FCB$V_LOCATE] = 0;
;  368          0429  2     FCB [FCB$V_PARTIAL_LINE] = 0;
;  369          0430  2     RAB [RAB$V_TPT] = 1;
;  370          0431  2
;  371          0432  2     !+
;  372          0433  2     ! Undefine the file buffer
;  373          0434  2     ! Validate the status bits
;  374          0435  2     ! Indicate successful completion
;  375          0436  2     ! Unlock the file
;  376          0437  2     !-
;  377          0438  2
;  378          0439  2     PFV [PFV$V_EOF_DEFINED] = 1;
;  379          0440  2     PFV [PFV$V_VALID] = 1;
;  380          0441  2     PFV [PFV$V_DFB] = 0;
;  381          0442  2     FCB [FCB$L_STATUS] = 0;
;  382          0443  2     PFV [PFV$V_LOCK] = 0;
;  383          0444  2
;  384          0445  2     RETURN;
;  385          0446  2
;  386          0447  1     END;                                    ! End of routine PAS$REWRITE2

                                .TITLE  PAS$REWRITE2 REWRITE procedure
                                .IDENT  \1-004\

                                .EXTRN  PAS$REWRITE2, PAS$$IO_HANDLER
                                .EXTRN  PAS$$VALIDATE_PFV
                                .EXTRN  PAS$$OPEN_IMPLICIT
                                .EXTRN  PAS$$OPEN, PAS$$SIGNAL
                                .EXTRN  PAS$K_GENNOTALL
                                .EXTRN  PAS$$WRITELN, SYS$REWIND
                                .EXTRN  PAS$K_ERRDURREW
                                .EXTRN  SYS$GET, SYS$TRUNCATE
                                .EXTRN  PAS$K_REWNOTALL
                                .EXTRN  SYS$DELETE

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

                        0FFC 00000      .ENTRY  PAS$REWRITE2, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0144
                                                R10,R11
    5B 00000000G   00   9E 00002        MOVAB   SYS$REWIND, R11                              ;
    5A 00000000G   00   9E 00009        MOVAB   PAS$$SIGNAL, R10                             ;
    59 00000000G   00   9E 00010        MOVAB   SYS$GET, R9                                  ;
    5E             08   C2 00017        SUBL2   #8, SP                                       ;
                   7E   D4 0001A        CLRL    ERROR_ADDR                                   ; 0195
              04   AE   7C 0001C        CLRQ    UNWIND_ACT                                   ;
    6D    01CE     CF   DE 0001F        MOVAL   29$, (FP)                                    ;
    02             6C   91 00024        CMPB    (AP), #2                                     ; 0215
                   04   1F 00027        BLSSU   1$                                           ;
    6E       08    AC   D0 00029        MOVL    ERROR, ERROR_ADDR                            ; 0217
    56       04    AC   D0 0002D 1$:    MOVL    PFV, R6                                      ; 0223
08  AE             56   D0 00031        MOVL    R6, PFV_ADDR                                 ;
        00000000G  00   16 00035        JSB     PAS$$VALIDATE_PFV                            ; 0229
04  AE             01   D0 0003B        MOVL    #1, UNWIND_ACT                               ; 0235
    58       04    A6   9E 0003F        MOVAB   4(R6), R8                                    ; 0241
    06       02    A8   E8 00043        BLBS    2(R8), 2$                                    ;
        00000000G  00   16 00047        JSB     PAS$$OPEN_IMPLICIT                           ; 0243
```

```
                0B              68              1D  E0 0004D 2$:    BBS     #29, (R8), 3$                   ; 0249
                                                04  DD 00051       PUSHL   #4                              ; 0251
                                                56  DD 00053       PUSHL   R6                              ;
                00000000G       00              02  FB 00055       CALLS   #2, PAS$$OPEN                   ;
                0A        F8    A7              04  E1 0005C 3$:    BBC     #4, -8(FCB), 4$                 ; 0257
                                                7E  D4 00061       CLRL    -(SP)                           ; 0259
                                7E      00G     8F  9A 00063       MOVZBL  #PAS$K_GENNOTALL, -(SP)         ;
                                6A              02  FB 00067       CALLS   #2, PAS$$SIGNAL                 ;
                                                    04 0006A       RET                                     ;
                                12      F8      A7  E9 0006B 4$:    BLBC    -8(FCB), 5$                     ; 0266
                0D        FD    A7              04  E1 0006F       BBC     #4, -3(FCB), 5$                 ;
                          E8    A7      EC      A7  D1 00074       CMPL    -20(FCB), -24(FCB)              ; 0267
                                                06  1B 00079       BLEQU   5$                              ;
                                00000000G       00  16 0007B       JSB     PAS$$WRITELN                    ; 0269
                                52      FC      A7  9E 00081 5$:    MOVAB   -4(FCB), R2                     ; 0275
                          01    A2              04  8A 00085       BICB2   #4, 1(R2)                       ;
                          06    A7              10  8A 00089       BICB2   #16, 6(FCB)                     ; 0281
                                03      03      A2  E8 0008D       BLBS    3(R2), 7$                       ; 0288
                                            0120    31 00091 6$:    BRW     28$                             ;
                                F8      00CA    C7  E8 00094 7$:    BLBS    202(FCB), 6$                    ;
                                          1E    A7  94 00099       CLRB    30(FCB)                         ; 0298
                                          35    A7  94 0009C       CLRB    53(FCB)                         ; 0299
                                                57  DD 0009F 8$:    PUSHL   FCB                             ; 0300
                                6B              01  FB 000A1       CALLS   #1, SYS$REWIND                  ;
                                2E              50  E8 000A4       BLBS    $$STATUS, 10$                   ;
                    0001825A    8F              50  D1 000A7       CMPL    $$STATUS, #98906                ;
                                                04  12 000AE       BNEQ    9$                              ;
                                EB      03      A2  E8 000B0       BLBS    3(R2), 8$                       ;
                                1E              50  E8 000B4 9$:    BLBS    $$STATUS, 10$                   ;
                00018574        8F      08      A7  D1 000B7       CMPL    8(FCB), #99700                  ; 0302
                                                14  13 000BF       BEQL    10$                             ;
                0001827A        8F      08      A7  D1 000C1       CMPL    8(FCB), #98938                  ; 0303
                                                0A  13 000C9       BEQL    10$                             ;
                00018198        8F      08      A7  D1 000CB       CMPL    8(FCB), #98712                  ; 0304
                                                77  12 000D3       BNEQ    19$                             ;
                00018574        8F      08      A7  D1 000D5 10$:   CMPL    8(FCB), #99700                  ; 0314
                                                6B  13 000DD       BEQL    18$                             ;
                                          61    A7  95 000DF       TSTB    97(FCB)                         ; 0320
                                                46  12 000E2       BNEQ    16$                             ;
                                                57  DD 000E4 11$:    PUSHL   FCB                             ; 0323
                                69              01  FB 000E6       CALLS   #1, SYS$GET                     ;
                                1C              50  E8 000E9       BLBS    $$STATUS, 13$                   ;
                0001825A        8F              50  D1 000EC       CMPL    $$STATUS, #98906                ;
                                                04  12 000F3       BNEQ    12$                             ;
                                EB      03      A2  E8 000F5       BLBS    3(R2), 11$                      ;
                                0C              50  E8 000F9 12$:   BLBS    $$STATUS, 13$                   ;
                0001827A        8F      08      A7  D1 000FC       CMPL    8(FCB), #98938                  ; 0326
                                                1E  13 00104       BEQL    15$                             ;
                                                44  11 00106       BRB     19$                             ; 0328
                                                57  DD 00108 13$:   PUSHL   FCB                             ; 0336
                00000000G       00              01  FB 0010A       CALLS   #1, SYS$TRUNCATE                ;
                                10              50  E8 00111       BLBS    $$STATUS, 15$                   ;
                0001825A        8F              50  D1 00114       CMPL    $$STATUS, #98906                ;
                                                04  12 0011B       BNEQ    14$                             ;
                                E7      03      A2  E8 0011D       BLBS    3(R2), 13$                      ;
                                73              50  E9 00121 14$:   BLBC    $$STATUS, 25$                   ;
                          4B    A7              10  88 00124 15$:   BISB2   #16, 75(FCB)                   ; 0349
```

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                                                75  11 00128          BRB     27$                                     ; 0320
                                                57  DD 0012A 16$:     PUSHL   FCB                                     ; 0363
                                            69      01  FB 0012C          CALLS   #1, SYS$GET
                                            1C      50  E8 0012F          BLBS    $$STATUS, 20$
                                0001825A    8F      50  D1 00132          CMPL    $$STATUS, #98906
                                                    04  12 00139          BNEQ    17$
                                            EB  03  A2  E8 0013B          BLBS    3(R2), 16$
                                            0C      50  E8 0013F 17$:     BLBS    $$STATUS, 20$
                                0001827A    8F  08  A7  D1 00142          CMPL    8(FCB), #98938                  ; 0372
                                                    53  13 0014A 18$:     BEQL    27$
                                                    49  11 0014C 19$:     BRB     25$                             ; 0374
                            06      5B      A7      05  E0 0014E 20$:     BBS     #5, 91(FCB), 21$                ; 0383
                                            7E  00G 8F  9A 00153          MOVZBL  #PAS$K_REWNOTALL, -(SP)         ; 0385
                                                    42  11 00157          BRB     26$
                                                    57  DD 00159 21$:     PUSHL   FCB                             ; 0389
                                00000000G   00      01  FB 0015B          CALLS   #1, SYS$DELETE
                                            10      50  E8 00162          BLBS    $$STATUS, 23$
                                0001825A    8F      50  D1 00165          CMPL    $$STATUS, #98906
                                                    04  12 0016C          BNEQ    22$
                                            E7  03  A2  E8 0016E          BLBS    3(R2), 21$
                                            22      50  E9 00172 22$:     BLBC    $$STATUS, 25$
                                                    57  DD 00175 23$:     PUSHL   FCB                             ; 0392
                                            69      01  FB 00177          CALLS   #1, SYS$GET
                                            DC      50  E8 0017A          BLBS    $$STATUS, 21$
                                0001825A    8F      50  D1 0017D          CMPL    $$STATUS, #98906
                                                    04  12 00184          BNEQ    24$
                                            EB  03  A2  E8 00186          BLBS    3(R2), 23$
                                            CC      50  E8 0018A 24$:     BLBS    $$STATUS, 21$
                                0001827A    8F  08  A7  D1 0018D          CMPL    8(FCB), #98938                  ; 0395
                                                    08  13 00195          BEQL    27$
                                            7E  00G 8F  9A 00197 25$:     MOVZBL  #PAS$K_ERRDURREW, -(SP)         ; 0399
                                            6A      01  FB 0019B 26$:     CALLS   #1, PAS$$SIGNAL
                                                    04  0019E            RET
                                                    57  DD 0019F 27$:     PUSHL   FCB                             ; 0410
                                            6B      01  FB 001A1          CALLS   #1, SYS$REWIND
                                            0D      50  E8 001A4          BLBS    $$STATUS, 28$
                                0001825A    8F      50  D1 001A7          CMPL    $$STATUS, #98906
                                                    04  12 001AE          BNEQ    28$
                                            EB  03  A2  E8 001B0          BLBS    3(R2), 27$
                                01      A2          08  8A 001B4 28$:     BICB2   #8, 1(R2)                       ; 0421
                                01      A2          10  88 001B8          BISB2   #16, 1(R2)                      ; 0422
                                E8      A7  24      A7  D0 001BC          MOVL    36(FCB), -24(FCB)               ; 0423
                                EC      A7  E8      A7  D0 001C1          MOVL    -24(FCB), -20(FCB)              ; 0424
                                F4      A7  20      A7  3C 001C6          MOVZWL  32(FCB), -12(FCB)               ; 0425
                        F0  A7  E8      A7  F4      A7  C1 001CB          ADDL3   -12(FCB), -24(FCB), -16(FCB)    ; 0426
                                01      A2          20  88 001D2          BISB2   #32, 1(R2)                      ; 0427
                                01      A2  0180    8F  AA 001D6          BICW2   #384, 1(R2)                     ; 0428
                                04      A7          02  88 001DC          BISB2   #2, 4(FCB)                      ; 0430
                                02      A8          05  88 001E0          BISB2   #5, 2(R8)                       ; 0440
                                02      A8          02  8A 001E4          BICB2   #2, 2(R8)                       ; 0441
                                                D4  A7  D4 001E8          CLRL    -44(FCB)                        ; 0442
                                03      A8      80  8F  8A 001EB          BICB2   #128, 3(R8)                     ; 0443
                                                    04  001F0            RET                                     ; 0447
                                                0000    001F1 29$:        .WORD   Save nothing                    ; 0195
                                            50      08  AC  D0 001F3          MOVL    8(AP), R0
                                            50      04  A0  D0 001F7          MOVL    4(R0), R0
                                                    F4  A0  9F 001FB          PUSHAB  ERROR_ADDR
```

```
                                    F8   A0  9F 001FE        PUSHAB  UNWIND_ACT                      ;
                                    FC   A0  9F 00201        PUSHAB  PFV_ADDR                        ;
                                         03  DD 00204        PUSHL   #3                              ;
                                         5E  DD 00206        PUSHL   SP                              ;
                                7E       04  AC  7D 00208    MOVQ    4(AP), -(SP)                    ;
                    00000000G   00           03  FB 0020C    CALLS   #3, PAS$$IO_HANDLER             ;
                                                 04 00213    RET                                     ;

; Routine Size:  532 bytes,    Routine Base:  _PAS$CODE + 0000

;  387          0448  1
;  388          0449  1 !<BLF/PAGE>
```

```
;  390          0450  1 END                                   ! End of module PAS$REWRITE2
;  391          0451  1
;  392          0452  0 ELUDOM



;                                  PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  _PAS$CODE                       532  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         24          0         581       00:01.0
;  _$255$DUA28:[PASRTL.OBJ]PASLIB.L32;1              427        100         23          33       00:00.4



;                                     COMMAND QUALIFIERS

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

; Size:          532 code + 0 data bytes
; Run Time:          00:13.1
; Elapsed Time:      00:48.9
; Lines/CPU Min:      2067
; Lexemes/CPU-Min: 21736
; Memory Used:  210 pages
; Compilation Complete
```

PASREWRIT LIS

PASSIGNAL LIS

PASSOR LIS

PASTRUNCA LIS

PASUNLOCK LIS

PASWRIBOO LIS

PASVECTOR LIS

PASWRIBIN LIS

PASUNDEFI LIS

PASVALIDA LIS

PASWRIHEX LIS

PASVM LIS

PASWRIFFI LIS

PASTIME LIS

PASWRIFDI LIS

PASUPDATE LIS

PASWRIENU LIS

PASSTATUS LIS

PASUFB LIS

PASWRICHA LIS