```
(RPAQQ TEDIT-OLDFILECOMS
       (;; Code for reading old-format TEDIT-FILES (1985)
        (COMS ;; For converting old incoming format.  Cutover 5/22/85 to permit looks changes in the future.
              (FNS \TEDIT.GET.PCTB2 \TEDIT.GET.PARALOOKS2 \TEDIT.GET.CHARLOOKS2 \TEDIT.PARSE.PAGEFRAMES2
                   \TEDIT.GET.CHARLOOKS.LIST2 \TEDIT.GET.SINGLE.CHARLOOKS2 \TEDIT.PUT.SINGLE.PARALOOKS2
                   \TEDIT.PUT.SINGLE.CHARLOOKS2 \TEDIT.GET.PARALOOKS.LIST2 \TEDIT.GET.SINGLE.PARALOOKS2
                   \TEDIT.PUT.CHARLOOKS.LIST2 \TEDIT.PUT.PARALOOKS.LIST2))
        (COMS ;; For converting incoming old-format files (1/27/85 cutover)
              (FNS \TEDIT.GET.PCTB1 \TEDIT.GET.PAGEFRAMES1 \TEDIT.PARSE.PAGEFRAMES1 \TEDIT.GET.CHARLOOKS1
                   \TEDIT.GET.PARALOOKS1 TEDIT.GET.OBJECT1))
        (COMS ;; VERSION 0 Compatibility reading functions
              (FNS \TEDIT.GET.PCTB0 \TEDIT.GET.CHARLOOKS0 \TEDIT.GET.OBJECT0 \TEDIT.GET.PARALOOKS0)))))
```

;; Code for reading old-format TEDIT-FILES (1985)

;; For converting old incoming format. Cutover 5/22/85 to permit looks changes in the future.

```
(DEFINEQ

(\TEDIT.GET.PCTB2
  [LAMBDA (TEXT TEXTOBJ PCCOUNT START END)             ; Edited 20-Mar-2024 11:00 by rmk
                                                       ; Edited 17-Mar-2024 12:41 by rmk
                                                       ; Edited 15-Mar-2024 14:37 by rmk
                                                       ; Edited 21-Jan-2024 10:21 by rmk
                                                       ; Edited 13-Jan-2024 12:09 by rmk
                                                       ; Edited 19-Dec-2023 10:13 by rmk
                                                       ; Edited 25-Nov-2023 23:18 by rmk
                                                       ; Edited  8-Nov-2023 13:48 by rmk
                                                       ; Edited  4-Oct-2022 16:58 by rmk
                                                       ; Edited  8-Sep-2022 23:06 by rmk
                                                       ; Edited  5-Sep-2022 21:33 by rmk
                                                       ; Edited  4-May-93 16:27 by jds

    ;; READ OBSOLETE FORMATS OF TEDIT FILE

    ;; START = 1st char of file to read from, if specified

    ;; END = use this as eofptr of file.  For use in reading files within files.

    (TEXTOBJ! TEXTOBJ)
    (LET (PIECEINFOCH# (CURFILECH# (OR START 0))
               LOOKSHASH PARAHASH)
         (SETFILEPTR TEXT (IDIFFERENCE (OR END (GETEOFPTR TEXT))
                                  8))
         (SETQ PIECEINFOCH# (\DWIN TEXT))
         (SETFILEPTR TEXT PIECEINFOCH#)
         (bind PC TYPECODE PCLEN OLDPC (DEFAULTCHARLOOKS _ (FGETTOBJ TEXTOBJ DEFAULTCHARLOOKS))
               (OLDPARALOOKS _ (FGETTOBJ TEXTOBJ FMTSPEC))
               (SBINABLE _ (fetch (STREAM BINABLE) of TEXT)) for I from 1 to PCCOUNT
            do (SETQ PC NIL)                            ; This loop may not really read a piece, so we have to distinguish
                                                       ; that case.
               (SETQ PCLEN (\DWIN TEXT))
               (SETQ TYPECODE (\WIN TEXT))              ; What kind of piece is it?
               (SELECTC TYPECODE
                   (\PieceDescriptorPAGEFRAME          ; This is page layout info for the file
                       (FSETTOBJ TEXTOBJ TXTPAGEFRAMES (\TEDIT.PARSE.PAGEFRAMES2 (READ TEXT))))
                   (\PieceDescriptorCHARLOOKSLIST      ; This is the list of CHARLOOKSs used in this document.
                       (FSETTOBJ TEXTOBJ TXTCHARLOOKSLIST (\TEDIT.GET.CHARLOOKS.LIST2 TEXT))
                                                       ; Read the list of looks used in this document.
                       [SETQ LOOKSHASH (ARRAY (FLENGTH (FGETTOBJ TEXTOBJ TXTCHARLOOKSLIST]
                                                       ; Build an array of the looks, so the reader can index them.
                       (for I from 1 as LOOKS in (FGETTOBJ TEXTOBJ TXTCHARLOOKSLIST)
                          do (SETA LOOKSHASH I LOOKS))
                       (add I -1))
                   (\PieceDescriptorPARALOOKSLIST      ; This is the list of PARALOOKSs used in this document.
                       (FSETTOBJ TEXTOBJ TXTPARALOOKSLIST (\TEDIT.GET.PARALOOKS.LIST2 TEXT))
                                                       ; Read the list of looks used in this document.
                       [SETQ PARAHASH (ARRAY (FLENGTH (FGETTOBJ TEXTOBJ TXTPARALOOKSLIST]
                                                       ; Build an array of the looks, so the reader can index them.
                       (for I from 1 as LOOKS in (FGETTOBJ TEXTOBJ TXTPARALOOKSLIST)
                          do (SETA PARAHASH I LOOKS))
                       (add I -1))
```

```
                        (\PieceDescriptorPARA                                          ; Reading a new set of paragraph looks.
                            (CL:WHEN OLDPC (FSETPC OLDPC PPARALAST T))
                                                                   ; Mark the end of the preceding paragraph.
                            (SETQ OLDPARALOOKS (\TEDIT.GET.PARALOOKS2 TEXT PARAHASH))
                                                                   ; Get the new set of looks, for use by later pieces.
                                                                   ; Mark the document as containing paragraph formatting info
                            (FSETTOBJ TEXTOBJ FORMATTEDP T))
                        (\PieceDescriptorLOOKS  ;; New character looks.  Build a piece to describe those characters, assuming THINFILE to
                                                ;; begin
                            (SETQ PC
                             (create PIECE
                                    PCONTENTS _ TEXT
                                    PFPOS _ CURFILECH#
                                    PBYTELEN _ PCLEN
                                    PLEN _ PCLEN
                                    PPARALOOKS _ OLDPARALOOKS
                                    PTYPE _ THINFILE.PTYPE
                                    PBYTESPERCHAR _ 1))             ; Build the new piece
                            (\TEDIT.GET.CHARLOOKS2 PC TEXT LOOKSHASH)
                            (CL:WHEN (EQ THINFILE.PTYPE (PTYPE PC))
                                    (FSETPC PC PBINABLE SBINABLE))  ; Read the character looks for this guy.
                            (COND
                                [OLDPC                                        ; If there's a prior piece, hook this one on the chain.
                                       (COND
                                          ([AND (EQ FATFILE2.PTYPE (PTYPE PC))
                                                (NOT (EQ FATFILE2.PTYPE (PTYPE OLDPC]
                                                                   ; Switching from not-fat to fat.  Add 3 bytes for the 255-255-0
                                            (add (PFPOS PC)
                                                 3)
                                            (add CURFILECH# -3))
                                          ([AND (EQ FATFILE2.PTYPE (PTYPE OLDPC))
                                                (NOT (EQ FATFILE2.PTYPE (PTYPE PC]
                                                                   ; Switching from fat to not-fat.  Add 3 bytes for the 255-0
                                            (add (PFPOS PC)
                                                 2]
                                ((EQ FATFILE2.PTYPE (PTYPE PC))                ; Switching from not-fat to fat.  Add 3 bytes for the 255-255-0
                                  (add (PFPOS PC)
                                       3)
                                  (add CURFILECH# -3)))                        ; And note the passing of characters.
                            (add CURFILECH# PCLEN))
                        (\PieceDescriptorOBJECT                                        ; It describes an object.  Read that, and perhaps some
                                                                               ; description of the charlooks to go with it.
                            (SETQ PC
                             (create PIECE
                                    PCONTENTS _ TEXT
                                    PFPOS _ CURFILECH#
                                    PLEN _ 1
                                    PPARALOOKS _ OLDPARALOOKS
                                    PTYPE _ OBJECT.PTYPE
                                    PBYTESPERCHAR _ PCLEN))
                            (\TEDIT.GET.OBJECT (FGETTOBJ TEXTOBJ STREAMHINT)
                                    PC TEXT CURFILECH# PCLEN)
                            (add CURFILECH# PCLEN)
                            (FSETPC PC PLOOKS (if (ZEROP (BIN TEXT))
                                                 then  ;; No new looks;  steal them from the prior piece.

                                                     (OR (AND OLDPC (PLOOKS OLDPC))
                                                         DEFAULTCHARLOOKS)
                                                 else  ;; There are new character looks for this object.  Read them in.

                                                     (\TEDIT.GET.SINGLE.CHARLOOKS2 TEXT))))
                        (SHOULDNT "Impossible piece-type code in BUILD.PCTB"))
                    (CL:WHEN PC                                                ; If we created a piece, save it in the table.
                            (\TEDIT.INSERTPIECE PC NIL TEXTOBJ)
                            (SETQ OLDPC PC))
                finally (\TEDIT.UNIQUIFY.ALL TEXTOBJ])
```

(**TEDIT.GET.PARALOOKS2**

```
  [LAMBDA (FILE PARAHASH)                                          ; Edited 19-Dec-2023 10:13 by rmk
                                                                   ; Edited 18-Dec-88 17:47 by jds

    ;; Read a paragraph format spec from the FILE, and return it for later use.

    ;; Paragraph format # of 0 indicates an end-of-file dummy, used to preserve the paralooks of EOF para break.

    (LET ((LOOKS# (\WIN FILE)))
         (COND
            ((ZEROP LOOKS#)
             NIL)
            (T (ELT PARAHASH LOOKS#)])
```

(**TEDIT.GET.CHARLOOKS2**

```
  [LAMBDA (PC FILE LOOKSARRAY)                                     ; Edited 13-Jan-2024 00:01 by rmk
                                                                   ; Edited 19-Dec-2023 10:13 by rmk
                                                                   ; Edited  3-Sep-2023 23:31 by rmk
                                                                   ; Edited 28-Aug-2023 22:19 by rmk
```

; Edited 26-Aug-2023 23:22 by rmk
; Edited 30-May-91 21:43 by jds

;; Set the PLOOKS for the current piece, PC, according to what the file says

;; We also

```
(LET ((FLAGS (BIN FILE)))
     (FSETPC PC PLOOKS (ELT LOOKSARRAY (\WIN FILE)))
     (CL:UNLESS (ZEROP (LOGAND FLAGS 1))
           (FSETPC PC PNEW T))
     (CL:UNLESS (ZEROP (LOGAND FLAGS 2))                              ; XCSS FAT. It may be a continuation of a previous fat piece
         (FSETPC PC PLEN (IQUOTIENT (FGETPC PC PLEN)
                                        2))
         (FSETPC PC PTYPE FATFILE2.PTYPE)
         (FSETPC PC PBYTESPERCHAR 2))])
```

(**TEDIT.PARSE.PAGEFRAMES2**
```
  [LAMBDA (PAGELIST PARENT)                                           ; Edited 13-Nov-2023 00:21 by rmk
                                                                     ; Edited  7-Nov-2023 13:24 by rmk
                                                                     ; Edited  4-Oct-2022 16:57 by rmk
                                                                     (* jds "31-Jul-84 15:30")
```

;; Internalize an external pageframe.

;; Exactly like \TEDIT.PARSE.PAGEFRAMES1, except this doesn't scale the region specs. Except that if it looks like a PAGE region appears to be
;; the result of mistakenly treating points as micas and scaling them down, we scale them back up.

```
    (LET (FRAMETYPE PAGEFRAME)
         (COND
             ((type? PAGEREGION PAGELIST)
              PAGELIST)
             ((NEQ 'LIST (SETQ FRAMETYPE (pop PAGELIST)))
              [SETQ PAGEFRAME (create PAGEREGION
                                       REGIONFILLMETHOD _ FRAMETYPE
                                       REGIONTYPE _ (pop PAGELIST)
                                       REGIONLOCALINFO _ (pop PAGELIST)
                                       REGIONSPEC _ (OR (pop PAGELIST)
                                                       (LIST 0 0 0 0]
              (CL:WHEN (AND (EQ 'PAGE (fetch (PAGEREGION REGIONFILLMETHOD) of PAGEFRAME))
                           (LESSP (fetch (REGION WIDTH) of (fetch (PAGEREGION REGIONSPEC) of PAGEFRAME))
                                  18))
                  (change (fetch (PAGEREGION REGIONSPEC) of PAGEFRAME)
                          (SELECTQ (fetch (REGION HEIGHT) of DATUM)
                              (22                                     ; Letter
                                 (CREATEREGION 0 0 612 792))
                              (29                                     ; Legal
                                 (CREATEREGION 0 0 612 1008))
                              (24                                     ; A4
                                 (CREATEREGION 0 0 595 842))
                              (fetch (PAGEREGION REGIONSPEC) of DATUM))))
              (replace REGIONSUBBOXES of PAGEFRAME with (for ALIST in (pop PAGELIST) collect (\TEDIT.PARSE.PAGEFRAMES2
                                                                                 ALIST PAGEFRAME)))
              PAGEFRAME)
             (T (for FRAMESPEC in (CAR PAGELIST) collect (\TEDIT.PARSE.PAGEFRAMES2 FRAMESPEC NIL])
```

(**TEDIT.GET.CHARLOOKS.LIST2**
```
  [LAMBDA (FILE)                                                     ; Edited 19-Dec-2023 10:13 by rmk
                                                                     (* jds "22-May-85 14:28")
                                                                     (* Read the list of CHARLOOKSs from the file.)
    (for I from 1 to (\WIN FILE) collect (\TEDIT.GET.SINGLE.CHARLOOKS2 FILE])
```

(**TEDIT.GET.SINGLE.CHARLOOKS2**
```
  [LAMBDA (FILE)                                                     ; Edited 16-Jan-2024 22:53 by rmk
                                                                     ; Edited 19-Dec-2023 10:13 by rmk
                                                                     ; Edited 25-Nov-2023 23:22 by rmk
                                                                     ; Edited  7-Nov-2023 22:00 by rmk
                                                                     ; Edited 30-May-91 20:26 by jds
                                                                     ; Read a set of CHARLOOKS from FILE
    (PROG* ((LOOKS (create CHARLOOKS))
            FONT STR NAME NAMELEN SIZE SUPER SUB PROPS STYLESTR USERSTR)
           (SETQ NAME (\ARBIN FILE))                                 ; The font name
           (SETQ SIZE (\WIN FILE))                                   ; Size of the type, in points
           (SETQ SUPER (\SMALLPIN FILE))                             ; Superscripting distance
           (replace (CHARLOOKS CLSTYLE) of LOOKS with (OR (\ARBIN FILE)
                                                         0))
           (replace (CHARLOOKS CLUSERINFO) of LOOKS with (\ARBIN FILE))
           (SETQ PROPS (\WIN FILE))
           (with CHARLOOKS LOOKS [SETQ CLLEADER (NOT (ZEROP (LOGAND 2048 PROPS]
                 [SETQ CLINVERTED (NOT (ZEROP (LOGAND 1024 PROPS]
                 [SETQ CLBOLD (NOT (ZEROP (LOGAND 512 PROPS]
                 [SETQ CLITAL (NOT (ZEROP (LOGAND 256 PROPS]
                 [SETQ CLULINE (NOT (ZEROP (LOGAND 128 PROPS]
                 [SETQ CLOLINE (NOT (ZEROP (LOGAND 64 PROPS]
                 [SETQ CLSTRIKE (NOT (ZEROP (LOGAND 32 PROPS]
                 [SETQ CLSMALLCAP (NOT (ZEROP (LOGAND 16 PROPS]
                 [SETQ CLPROTECTED (NOT (ZEROP (LOGAND 8 PROPS]
```

```
                      [SETQ CLINVISIBLE (NOT (ZEROP (LOGAND 4 PROPS]
                      [SETQ CLSELHERE (NOT (ZEROP (LOGAND 2 PROPS]
                      [SETQ CLCANCOPY (NOT (ZEROP (LOGAND 1 PROPS]
                      (SETQ CLSIZE SIZE)
                      (SETQ CLOFFSET SUPER))
                 [SETQ FONT (COND
                               ((LISTP NAME)                                  ; This was a font class.  Restore it.
                                (FONTCLASS (pop NAME)
                                      NAME))
                               ((AND NAME (NOT (ZEROP SIZE)))
                                (FONTCREATE NAME SIZE (COND
                                                        ((AND (fetch (CHARLOOKS CLBOLD) of LOOKS)
                                                              (fetch (CHARLOOKS CLITAL) of LOOKS))
                                                         'BOLDITALIC)
                                                        ((fetch (CHARLOOKS CLBOLD) of LOOKS)
                                                         'BOLD)
                                                        ((fetch (CHARLOOKS CLITAL) of LOOKS)
                                                         'ITALIC]
                 (replace (CHARLOOKS CLNAME) of LOOKS with (if (type? FONTCLASS FONT)
                                                              then  ;; Put the display family in the CLNAME spot.  Better than NIL.

                                                                   (CL:WHEN [SETQ NAME
                                                                            (FONTCOPY FONT '(DEVICE DISPLAY NOERROR T]
                                                                     (FONTPROP NAME 'FAMILY))
                                                              else NAME))
                 (replace (CHARLOOKS CLFONT) of LOOKS with FONT)
                 (RETURN LOOKS])
```

(**TEDIT.PUT.SINGLE.PARALOOKS2**

```
  [LAMBDA (FILE LOOKS)                                                   ; Edited 16-Jan-2024 23:01 by rmk
                                                                         ; Edited 19-Dec-2023 10:14 by rmk
                                                                         ; Edited  3-Mar-2023 23:23 by rmk
                                                                         ; Edited 30-May-91 20:33 by jds
                                                                         ; Put a description of LOOKS into FILE.  LOOKS apply to
                                                                         ; characters CH1 thru CHLIM-1

    (PROG (DEFTAB TABSPECS OUTPUTFORMAT LEN)
          (\SMALLPOUT FILE (fetch (FMTSPEC 1STLEFTMAR) of LOOKS))  ; Left margin for the first line of the paragraph
          (\SMALLPOUT FILE (fetch (FMTSPEC LEFTMAR) of LOOKS))     ; Left margin for the rest of the paragraph
          (\SMALLPOUT FILE (fetch (FMTSPEC RIGHTMAR) of LOOKS))    ; Right margin for the paragraph
          (\SMALLPOUT FILE (fetch (FMTSPEC LEADBEFORE) of LOOKS))  ; Leading before the paragraph
          (\SMALLPOUT FILE (fetch (FMTSPEC LEADAFTER) of LOOKS))   ; Lead after the paragraph
          (\SMALLPOUT FILE (fetch (FMTSPEC LINELEAD) of LOOKS))    ; inter-line leading
          (SETQ DEFTAB (CAR (fetch (FMTSPEC TABSPEC) of LOOKS)))
          (SETQ TABSPECS (CDR (fetch (FMTSPEC TABSPEC) of LOOKS)))
          (COND
             ((AND (fetch (FMTSPEC TABSPEC) of LOOKS)
                   (OR DEFTAB TABSPECS))                              ; There are tab specs to save, or there is a default tab setting to
                                                                      ; save

               (\BOUT FILE 3))
             (T                                                       ; There are no tab looks.  Just let him go.
               (\BOUT FILE 2)))
          (\BOUT FILE (SELECTQ (fetch (FMTSPEC QUAD) of LOOKS)
                        (LEFT 1)
                        (RIGHT 2)
                        ((CENTER CENTERED)
                         3)
                        ((JUST JUSTIFIED)
                         4)
                        (SHOULDNT)))
          [COND
             ((OR TABSPECS DEFTAB)                                    ; There are tab specs to save.
               (COND
                  (DEFTAB (\SMALLPOUT FILE DEFTAB))
                  (T (\SMALLPOUT FILE 0)))
               (\BOUT FILE (LENGTH TABSPECS))
               (COND
                  (TABSPECS                                           ; # of tab settings <256!
                     (for TAB in TABSPECS do (\SMALLPOUT FILE (fetch TABX of TAB))
                                                           ; And setting.
                                          (\BOUT FILE (SELECTQ (fetch TABKIND of TAB)
                                                        (LEFT 0)
                                                        (RIGHT 1)
                                                        (CENTERED 2)
                                                        (DECIMAL 3)
                                                        (SHOULDNT)))
                                                          ; Tab type

                     ]
          (\SMALLPOUT FILE (OR (fetch (FMTSPEC FMTSPECIALX) of LOOKS)
                               0))
          (\SMALLPOUT FILE (OR (fetch (FMTSPEC FMTSPECIALY) of LOOKS)
                               0))
          (\ARBOUT FILE (fetch (FMTSPEC FMTUSERINFO) of LOOKS))
          (\ATMOUT FILE (fetch (FMTSPEC FMTPARATYPE) of LOOKS))
          (\ATMOUT FILE (fetch (FMTSPEC FMTPARASUBTYPE) of LOOKS))
          (\ARBOUT FILE (fetch (FMTSPEC FMTSTYLE) of LOOKS))
```
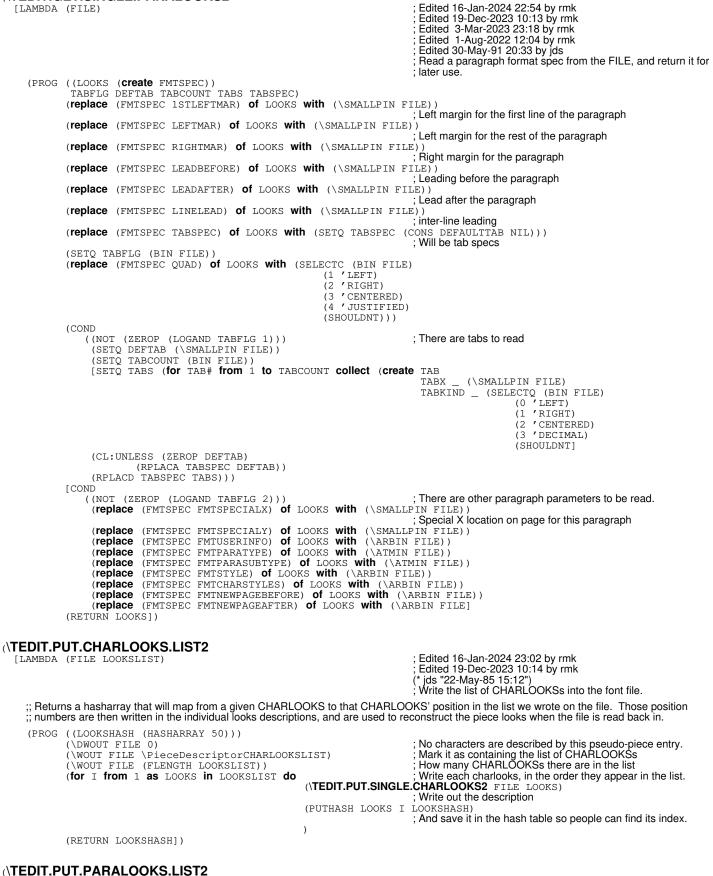
```
          (\ARBOUT FILE (fetch (FMTSPEC FMTCHARSTYLES) of LOOKS))
          (\ARBOUT FILE (fetch (FMTSPEC FMTNEWPAGEBEFORE) of LOOKS))
          (\ARBOUT FILE (fetch (FMTSPEC FMTNEWPAGEAFTER) of LOOKS]))
```

(**TEDIT.PUT.SINGLE.CHARLOOKS2**

```
  [LAMBDA (FILE LOOKS)                                              ; Edited 16-Jan-2024 23:01 by rmk
                                                                   ; Edited 19-Dec-2023 10:14 by rmk
                                                                   ; Edited 30-May-91 20:26 by jds
                                                                   ; Put out a single CHARLOOKS description.

     (PROG ((FONT (fetch (CHARLOOKS CLFONT) of LOOKS))
            STR LEN)
           [COND
               ((type? FONTCLASS FONT)                             ; For font classes, we need to save a list of device-FD sets
                 (\ARBOUT FILE (FONTCLASSUNPARSE FONT)))
               (T                                                  ; For FONTDESCRIPTORs, do it the easy way
                   (\ATMOUT FILE (FONTPROP FONT 'FAMILY]           ; The font family
           (\WOUT FILE (OR (FONTPROP FONT 'SIZE)
                           0))                                     ; Size of the type, in points
           (\SMALLPOUT FILE (OR (fetch (CHARLOOKS CLOFFSET) of LOOKS)
                                0))                                ; Super/subscripting distance
           (COND
               ([AND (fetch (CHARLOOKS CLSTYLE) of LOOKS)
                     (NOT (ZEROP (fetch (CHARLOOKS CLSTYLE) of LOOKS]
                 (\ARBOUT FILE (fetch (CHARLOOKS CLSTYLE) of LOOKS)))
               (T (\WOUT FILE 0)))
           (COND
               ((fetch (CHARLOOKS CLUSERINFO) of LOOKS)
                 (\ARBOUT FILE (fetch (CHARLOOKS CLUSERINFO) of LOOKS)))
               (T (\WOUT FILE 0)))
           (\WOUT FILE (LOGOR (COND
                                 ((fetch (CHARLOOKS CLLEADER) of LOOKS)
                                                                   ; Dotted-leader;  relevant only to TABs
                                  2048)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLINVERTED) of LOOKS)
                                                                   ; Inverse-video
                                  1024)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLBOLD) of LOOKS)
                                  512)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLITAL) of LOOKS)
                                  256)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLULINE) of LOOKS)
                                  128)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLOLINE) of LOOKS)
                                  64)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLSTRIKE) of LOOKS)
                                  32)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLSMALLCAP) of LOOKS)
                                  16)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLPROTECTED) of LOOKS)
                                  8)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLINVISIBLE) of LOOKS)
                                  NIL 4)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLSELHERE) of LOOKS)
                                  2)
                                 (T 0))
                              (COND
                                 ((fetch (CHARLOOKS CLCANCOPY) of LOOKS)
                                  1)
                                 (T 0])
```

(**TEDIT.GET.PARALOOKS.LIST2**

```
  [LAMBDA (FILE)                                                   ; Edited 19-Dec-2023 10:13 by rmk
                                                                   (* jds "22-May-85 14:28")
                                                                   (* Read the list of CHARLOOKSs from the file.)
     (for I from 1 to (\WIN FILE) collect (\TEDIT.GET.SINGLE.PARALOOKS2 FILE])
```

⟨**TEDIT.GET.SINGLE.PARALOOKS2**

```
  [LAMBDA (FILE)                                        ; Edited 16-Jan-2024 22:54 by rmk
                                                        ; Edited 19-Dec-2023 10:13 by rmk
                                                        ; Edited  3-Mar-2023 23:18 by rmk
                                                        ; Edited  1-Aug-2022 12:04 by rmk
                                                        ; Edited 30-May-91 20:33 by jds
                                                        ; Read a paragraph format spec from the FILE, and return it for
                                                        ; later use.
    (PROG ((LOOKS (create FMTSPEC))
            TABFLG DEFTAB TABCOUNT TABS TABSPEC)
          (replace (FMTSPEC 1STLEFTMAR) of LOOKS with (\SMALLPIN FILE))
                                                        ; Left margin for the first line of the paragraph
          (replace (FMTSPEC LEFTMAR) of LOOKS with (\SMALLPIN FILE))
                                                        ; Left margin for the rest of the paragraph
          (replace (FMTSPEC RIGHTMAR) of LOOKS with (\SMALLPIN FILE))
                                                        ; Right margin for the paragraph
          (replace (FMTSPEC LEADBEFORE) of LOOKS with (\SMALLPIN FILE))
                                                        ; Leading before the paragraph
          (replace (FMTSPEC LEADAFTER) of LOOKS with (\SMALLPIN FILE))
                                                        ; Lead after the paragraph
          (replace (FMTSPEC LINELEAD) of LOOKS with (\SMALLPIN FILE))
                                                        ; inter-line leading
          (replace (FMTSPEC TABSPEC) of LOOKS with (SETQ TABSPEC (CONS DEFAULTTAB NIL)))
                                                        ; Will be tab specs
          (SETQ TABFLG (BIN FILE))
          (replace (FMTSPEC QUAD) of LOOKS with (SELECTC (BIN FILE)
                                                    (1 'LEFT)
                                                    (2 'RIGHT)
                                                    (3 'CENTERED)
                                                    (4 'JUSTIFIED)
                                                    (SHOULDNT)))
          (COND
            ((NOT (ZEROP (LOGAND TABFLG 1)))            ; There are tabs to read
              (SETQ DEFTAB (\SMALLPIN FILE))
              (SETQ TABCOUNT (BIN FILE))
              [SETQ TABS (for TAB# from 1 to TABCOUNT collect (create TAB
                                                          TABX _ (\SMALLPIN FILE)
                                                          TABKIND _ (SELECTQ (BIN FILE)
                                                                    (0 'LEFT)
                                                                    (1 'RIGHT)
                                                                    (2 'CENTERED)
                                                                    (3 'DECIMAL)
                                                                    (SHOULDNT]
              (CL:UNLESS (ZEROP DEFTAB)
                      (RPLACA TABSPEC DEFTAB))
              (RPLACD TABSPEC TABS)))
          [COND
            ((NOT (ZEROP (LOGAND TABFLG 2)))            ; There are other paragraph parameters to be read.
              (replace (FMTSPEC FMTSPECIALX) of LOOKS with (\SMALLPIN FILE))
                                                        ; Special X location on page for this paragraph
              (replace (FMTSPEC FMTSPECIALY) of LOOKS with (\SMALLPIN FILE))
              (replace (FMTSPEC FMTUSERINFO) of LOOKS with (\ARBIN FILE))
              (replace (FMTSPEC FMTPARATYPE) of LOOKS with (\ATMIN FILE))
              (replace (FMTSPEC FMTPARASUBTYPE) of LOOKS with (\ATMIN FILE))
              (replace (FMTSPEC FMTSTYLE) of LOOKS with (\ARBIN FILE))
              (replace (FMTSPEC FMTCHARSTYLES) of LOOKS with (\ARBIN FILE))
              (replace (FMTSPEC FMTNEWPAGEBEFORE) of LOOKS with (\ARBIN FILE))
              (replace (FMTSPEC FMTNEWPAGEAFTER) of LOOKS with (\ARBIN FILE]
          (RETURN LOOKS])
```

⟨**TEDIT.PUT.CHARLOOKS.LIST2**

```
  [LAMBDA (FILE LOOKSLIST)                              ; Edited 16-Jan-2024 23:02 by rmk
                                                        ; Edited 19-Dec-2023 10:14 by rmk
                                                        (* jds "22-May-85 15:12")
                                                        ; Write the list of CHARLOOKSs into the font file.

    ;; Returns a hasharray that will map from a given CHARLOOKS to that CHARLOOKS' position in the list we wrote on the file.  Those position
    ;; numbers are then written in the individual looks descriptions, and are used to reconstruct the piece looks when the file is read back in.

    (PROG ((LOOKSHASH (HASHARRAY 50)))
          (\DWOUT FILE 0)                               ; No characters are described by this pseudo-piece entry.
          (\WOUT FILE \PieceDescriptorCHARLOOKSLIST)    ; Mark it as containing the list of CHARLOOKSs
          (\WOUT FILE (FLENGTH LOOKSLIST))              ; How many CHARLOOKSs there are in the list
          (for I from 1 as LOOKS in LOOKSLIST do        ; Write each charlooks, in the order they appear in the list.
                                    (\TEDIT.PUT.SINGLE.CHARLOOKS2 FILE LOOKS)
                                                        ; Write out the description
                                    (PUTHASH LOOKS I LOOKSHASH)
                                                        ; And save it in the hash table so people can find its index.
                                    )
          (RETURN LOOKSHASH])
```

⟨**TEDIT.PUT.PARALOOKS.LIST2**

```
  [LAMBDA (FILE LOOKSLIST)                              ; Edited 16-Jan-2024 23:02 by rmk
                                                        ; Edited 19-Dec-2023 10:14 by rmk
```

```
                                                                   (* jds "22-May-85 15:09")
                                                                   ; Write the list of FMTSPECs into the font file.
        (PROG ((LOOKSHASH (HASHARRAY 50)))
              (\DWOUT FILE 0)
              (\WOUT FILE \PieceDescriptorPARALOOKSLIST)
              (\WOUT FILE (FLENGTH LOOKSLIST))
              (for I from 1 as LOOKS in LOOKSLIST do (\TEDIT.PUT.SINGLE.PARALOOKS2 FILE LOOKS)
                                                                   ; Write out the description
                                                     (PUTHASH LOOKS I LOOKSHASH)
                                                                   ; And save it in the hash table so people can find its index.
                                                     )
              (RETURN LOOKSHASH])
)
```

;; For converting incoming old-format files (1/27/85 cutover)

```
(DEFINEQ
```

(**TEDIT.GET.PCTB1**
```
  [LAMBDA (TEXT TEXTOBJ PCCOUNT START END)                         ; Edited 20-Mar-2024 11:00 by rmk
                                                                   ; Edited 17-Mar-2024 12:41 by rmk
                                                                   ; Edited 21-Jan-2024 10:23 by rmk
                                                                   ; Edited 19-Dec-2023 10:13 by rmk
                                                                   ; Edited  8-Nov-2023 13:48 by rmk
                                                                   ; Edited  7-Nov-2023 13:17 by rmk
                                                                   ; Edited  6-Nov-2023 08:43 by rmk
                                                                   ; Edited 27-Oct-2023 13:54 by rmk
                                                                   ; Edited  3-Aug-2023 22:08 by rmk
                                                                   ; Edited 26-Apr-2023 14:18 by rmk
                                                                   ; Edited  5-Sep-2022 23:06 by rmk
                                                                   ; Edited 22-May-92 18:00 by jds
```

```
;;; READ OBSOLETE FORMATS OF TEDIT FILE
```
    ;; START = 1st char of file to read from, if specified
    ;; END = use this as eofptr file. For use in reading files within files.
```
    (TEXTOBJ! TEXTOBJ)
    (LET (PIECEINFOCH# TSTREAM (CURFILECH# (OR START 0)))
         (SETFILEPTR TEXT (IDIFFERENCE (OR END (GETEOFPTR TEXT))
                                       8))
         (SETQ PIECEINFOCH# (\DWIN TEXT))
         (SETFILEPTR TEXT PIECEINFOCH#)
         (bind PC TYPECODE PCLEN OLDPC (DEFAULTCHARLOOKS _ (FGETTOBJ TEXTOBJ DEFAULTCHARLOOKS))
               (OLDPARALOOKS _ (FGETTOBJ TEXTOBJ FMTSPEC))
               (SBINABLE _ (fetch (STREAM BINABLE) of TEXT)) for I from 1 to PCCOUNT
            do (SETQ PC NIL)                                       ; This loop may not really read a piece, so we have to distinguish
                                                                   ; that case.
               (SETQ PCLEN (\DWIN TEXT))
               (SETQ TYPECODE (\WIN TEXT))                         ; What kind of piece is it?
               (SELECTC TYPECODE
                   (\PieceDescriptorPAGEFRAME                      ; This is page layout info for the file
                       (FSETTOBJ TEXTOBJ TXTPAGEFRAMES (\TEDIT.GET.PAGEFRAMES1 TEXT)))
                   (\PieceDescriptorPARA                           ; Reading a new set of paragraph looks.
                       (CL:WHEN OLDPC                              ; Mark the end of the preceding paragraph.
                           (FSETPC OLDPC PPARALAST T))
                       (SETQ OLDPARALOOKS (\TEDIT.GET.PARALOOKS1 TEXT))
                                                                   ; Get the new set of looks, for use by later pieces.
                                                                   ; The document contains paragraph formatting info
                       (FSETTOBJ TEXTOBJ FORMATTEDP T))
                   (\PieceDescriptorLOOKS  ;; New character looks.  Build a piece to describe those characters.  This format doesn't have
                                           ;; fat characters.

                       (SETQ PC
                         (create PIECE
                                 PCONTENTS _ TEXT
                                 PFPOS _ CURFILECH#
                                 PBYTELEN _ PCLEN
                                 PLEN _ PCLEN
                                 PPARALOOKS _ OLDPARALOOKS
                                 PTYPE _ THINFILE.PTYPE
                                 PBYTESPERCHAR _ 1))
                       (\TEDIT.GET.CHARLOOKS1 PC TEXT)
                       (FSETPC PC PBINABLE SBINABLE)               ; Read the character looks for this guy.
                       (add CURFILECH# (PLEN PC))                  ; And note the passing of characters.

                       )
                   (\PieceDescriptorOBJECT                         ; It describes an object.  Read that, and perhaps some
                                                                   ; description of the charlooks to go with it.

                       (SETQ PC
                         (create PIECE
                                 PCONTENTS _ TEXT
                                 PFPOS _ CURFILECH#
                                 PLEN _ 1
                                 PPARALOOKS _ OLDPARALOOKS
                                 PTYPE _ THINFILE.PTYPE
```

```
                                    PBYTESPERCHAR _ PCLEN))
                          (TEDIT.GET.OBJECT1 (FGETTOBJ TEXTOBJ STREAMHINT)
                                PC TEXT CURFILECH#)
                          (add CURFILECH# PCLEN)
                          [COND
                             ((NOT (ZEROP (BIN TEXT)))          ; There are new character looks for this object.  Read them in.
                              (\DWIN TEXT)
                              (\WIN TEXT)                       ; Skip over the piece-type code we know has to be here.
                              (TEDIT.GET.CHARLOOKS1 PC TEXT))
                             (T                                 ; No new looks;  steal them from the prior piece.
                                (FSETPC PC PLOOKS (OR (AND OLDPC (PLOOKS OLDPC))
                                                      DEFAULTCHARLOOKS]))
                          (SHOULDNT "Impossible piece-type code"))
                    (CL:WHEN PC
                        (\TEDIT.INSERTPIECE PC NIL TEXTOBJ)
                        (SETQ OLDPC PC))
              finally (\TEDIT.UNIQUIFY.ALL TEXTOBJ])
```

(**TEDIT.GET.PAGEFRAMES1**

```
  [LAMBDA (FILE)                                                ; Edited  7-Nov-2023 12:35 by rmk
                                                                (* jds " 1-Feb-85 14:55")
                                                                ; Read a bunch of page frames from the file, and return it.

    (\TEDIT.PARSE.PAGEFRAMES1 (READ FILE))
```

(**TEDIT.PARSE.PAGEFRAMES1**

```
  [LAMBDA (PAGELIST PARENT)                                     ; Edited  7-Nov-2023 13:27 by rmk
                                                                ; Edited  8-Mar-2023 18:14 by rmk
                                                                ; Edited  4-Oct-2022 16:57 by rmk
                                                                ; Edited  1-Oct-2022 16:02 by rmk

    ;; Internalize an external pageframe.

    ;; Exactly like \TEDIT.PARSE.PAGEFRAMES, except this scales the region specs from Micas to points.  However, that scaling is suppress if it
    ;; looks like the PAGE regions are already in points

    (LET (FRAMETYPE PAGEFRAME RSPEC)
         (COND
            ((type? PAGEREGION PAGELIST)
             PAGELIST)
            ((NEQ 'LIST (SETQ FRAMETYPE (pop PAGELIST)))
             [SETQ PAGEFRAME (create PAGEREGION
                                     REGIONFILLMETHOD _ FRAMETYPE
                                     REGIONTYPE _ (pop PAGELIST)
                                     REGIONLOCALINFO _ (pop PAGELIST)
                                     REGIONSPEC _ (if (AND (SETQ RSPEC (OR (pop PAGELIST)
                                                                          (CREATEREGION 0 0 0 0)))
                                                          (EQ FRAMETYPE 'PAGE)
                                                          (IGEQ (fetch (REGION WIDTH) of RSPEC)
                                                                595))
                                                 then ;; 595 is A4, US letter and legal are greater, 612. RSPEC is already in
                                                      ;; points.

                                                      RSPEC
                                                 else (HCUNSCALE MICASPERPT RSPEC]
             (replace REGIONSUBBOXES of PAGEFRAME with (for ALIST in (pop PAGELIST) collect (\TEDIT.PARSE.PAGEFRAMES1
                                                                                              ALIST PAGEFRAME)))
             PAGEFRAME)
            (T (for FRAMESPEC in (CAR PAGELIST) collect (\TEDIT.PARSE.PAGEFRAMES1 FRAMESPEC NIL])
```

(**TEDIT.GET.CHARLOOKS1**

```
  [LAMBDA (PC FILE)                                             ; Edited 16-Jan-2024 22:55 by rmk
                                                                ; Edited 19-Dec-2023 10:13 by rmk
                                                                ; Edited 25-Nov-2023 23:21 by rmk
                                                                ; Edited  7-Nov-2023 22:02 by rmk
                                                                ; Edited 27-Oct-2023 13:04 by rmk
                                                                ; Edited  1-Aug-2022 12:04 by rmk
                                                                ; Edited 30-May-91 20:26 by jds

    ;; Read a description of PC's CHARLOOKS from FILE. The looks are here stored in PC, not in the TEXTOBJ (uniquify later?)

    (LET (FONT STR NAME NAMELEN SIZE SUPER SUB PROPS STYLESTR USERSTR (LOOKS (create CHARLOOKS)))
         (FSETPC PC PLOOKS LOOKS)
         (SETQ NAME (\ARBIN FILE))                              ; The font name
         (SETQ SIZE (\WIN FILE))                                ; Size of the type, in points
         (SETQ SUPER (\SMALLPIN FILE))                          ; Superscripting distance
         (SETQ SUB (\SMALLPIN FILE))                            ; former Subscripting distance
         (OR (ZEROP SUB)
             (SETQ SUPER (IMINUS SUB)))

         ;; If this is an old file, it'll have a subscript value not zero.  Let those past and do the right thing.

         (CL:UNLESS (ZEROP (BIN FILE))                          ; This text is NEW.  Mark it so.
             (FSETPC PC PNEW T))
         (CL:UNLESS (ZEROP (BIN FILE))                          ; There is style or user information to be read
             (replace (CHARLOOKS CLSTYLE) of LOOKS with (OR (\ARBIN FILE)
                                                            0))
             (replace (CHARLOOKS CLUSERINFO) of LOOKS with (\ARBIN FILE)))
         (SETQ PROPS (\WIN FILE))
```

```
        (with CHARLOOKS LOOKS [SETQ CLBOLD (NOT (ZEROP (LOGAND 512 PROPS]
                [SETQ CLITAL (NOT (ZEROP (LOGAND 256 PROPS]
                [SETQ CLULINE (NOT (ZEROP (LOGAND 128 PROPS]
                [SETQ CLOLINE (NOT (ZEROP (LOGAND 64 PROPS]
                [SETQ CLSTRIKE (NOT (ZEROP (LOGAND 32 PROPS]
                [SETQ CLSMALLCAP (NOT (ZEROP (LOGAND 16 PROPS]
                [SETQ CLPROTECTED (NOT (ZEROP (LOGAND 8 PROPS]
                [SETQ CLINVISIBLE (NOT (ZEROP (LOGAND 4 PROPS]
                [SETQ CLSELHERE (NOT (ZEROP (LOGAND 2 PROPS]
                [SETQ CLCANCOPY (NOT (ZEROP (LOGAND 1 PROPS]
                (SETQ CLSIZE SIZE)
                (SETQ CLOFFSET SUPER))
        [SETQ FONT (COND
                        ((LISTP NAME)                                      ; This was a font class.  Restore it.
                         (FONTCLASS (pop NAME)
                                NAME))
                        ((AND NAME (NOT (ZEROP SIZE)))
                         (FONTCREATE NAME SIZE (COND
                                        ((AND (fetch (CHARLOOKS CLBOLD) of LOOKS)
                                              (fetch (CHARLOOKS CLITAL) of LOOKS))
                                         'BOLDITALIC)
                                        ((fetch (CHARLOOKS CLBOLD) of LOOKS)
                                         'BOLD)
                                        ((fetch (CHARLOOKS CLITAL) of LOOKS)
                                         'ITALIC]
        (replace (CHARLOOKS CLNAME) of LOOKS with (if (type? FONTCLASS FONT)
                                                    then ;; Put the display family in the CLNAME spot.  Better than NIL.

                                                        (CL:WHEN [SETQ NAME (FONTCOPY FONT
                                                                                '(DEVICE DISPLAY NOERROR T]
                                                                (FONTPROP NAME 'FAMILY))
                                                    else NAME))
        (replace (CHARLOOKS CLFONT) of LOOKS with FONT])
```

(**TEDIT.GET.PARALOOKS1**

```
  [LAMBDA (FILE)                                                    ; Edited 16-Jan-2024 22:55 by rmk
                                                                    ; Edited 19-Dec-2023 10:13 by rmk
                                                                    ; Edited 27-Oct-2023 13:00 by rmk
                                                                    ; Edited  3-Mar-2023 23:20 by rmk
                                                                    ; Edited  1-Aug-2022 12:04 by rmk
                                                                    ; Edited 30-May-91 20:34 by jds
                                                                    ; Read a paragraph format spec from the FILE, and return it for
                                                                    ; later use.
    (LET ((LOOKS (create FMTSPEC))
          TABFLG DEFTAB TABCOUNT TABS TABSPEC)
         (replace (FMTSPEC 1STLEFTMAR) of LOOKS with (\SMALLPIN FILE))
                                                                    ; Left margin for the first line of the paragraph
         (replace (FMTSPEC LEFTMAR) of LOOKS with (\SMALLPIN FILE))
                                                                    ; Left margin for the rest of the paragraph
         (replace (FMTSPEC RIGHTMAR) of LOOKS with (\SMALLPIN FILE))
                                                                    ; Right margin for the paragraph
         (replace (FMTSPEC LEADBEFORE) of LOOKS with (\SMALLPIN FILE))
                                                                    ; Leading before the paragraph
         (replace (FMTSPEC LEADAFTER) of LOOKS with (\SMALLPIN FILE))
                                                                    ; Lead after the paragraph
         (replace (FMTSPEC LINELEAD) of LOOKS with (\SMALLPIN FILE))
                                                                    ; inter-line leading
         (replace (FMTSPEC TABSPEC) of LOOKS with (SETQ TABSPEC (CONS DEFAULTTAB NIL)))
                                                                    ; Will be tab specs
         (SETQ TABFLG (BIN FILE))
         (replace (FMTSPEC QUAD) of LOOKS with (SELECTC (BIN FILE)
                                                 (1 'LEFT)
                                                 (2 'RIGHT)
                                                 (3 'CENTERED)
                                                 (4 'JUSTIFIED)
                                                 (SHOULDNT)))
         (CL:UNLESS (ZEROP (LOGAND TABFLG 1))                       ; There are tabs to read
             (SETQ DEFTAB (\SMALLPIN FILE))
             (SETQ TABCOUNT (BIN FILE))
             [SETQ TABS (for TAB# from 1 to TABCOUNT collect (create TAB
                                                               TABX _ (\SMALLPIN FILE)
                                                               TABKIND _ (SELECTQ (BIN FILE)
                                                                           (0 'LEFT)
                                                                           (1 'RIGHT)
                                                                           (2 'CENTERED)
                                                                           (3 'DECIMAL)
                                                                           (SHOULDNT]
             (CL:UNLESS (ZEROP DEFTAB)
                 (RPLACA TABSPEC DEFTAB))
             (RPLACD TABSPEC TABS))
         (CL:UNLESS (ZEROP (LOGAND TABFLG 2))                       ; There are other paragraph parameters to be read.
             (replace (FMTSPEC FMTSPECIALX) of LOOKS with (\SMALLPIN FILE))
                                                                    ; Special X location on page for this paragraph
             (replace (FMTSPEC FMTSPECIALY) of LOOKS with (\SMALLPIN FILE))
             (replace (FMTSPEC FMTUSERINFO) of LOOKS with (\ARBIN FILE))
             (replace (FMTSPEC FMTPARATYPE) of LOOKS with (\ATMIN FILE)))
```

```
                    (replace (FMTSPEC FMTPARASUBTYPE) of LOOKS with (\ATMIN FILE))
                    (replace (FMTSPEC FMTSTYLE) of LOOKS with (\ARBIN FILE))
                    (replace (FMTSPEC FMTCHARSTYLES) of LOOKS with (\ARBIN FILE))
                    (replace (FMTSPEC FMTNEWPAGEBEFORE) of LOOKS with (\ARBIN FILE))
                    (replace (FMTSPEC FMTNEWPAGEAFTER) of LOOKS with (\ARBIN FILE)))
              LOOKS])
```

(**TEDIT.GET.OBJECT1**

```
  [LAMBDA (STREAM PIECE FILE CURCH#)                          ; Edited 27-Oct-2023 12:58 by rmk
                                                              ; Edited  6-Aug-2022 09:11 by rmk
                                                              ; Edited 12-Jun-90 18:17 by mitani


    ;; Get an object from the file

    ;; CURCH# = fileptr within the text section of the file where the object's text starts.

    (LET ((TEXTOBJ (fetch (TEXTSTREAM TEXTOBJ) of STREAM))
           FILEPTRSAVE GETFN OBJ)
         (SETQ GETFN (\ATMIN FILE))                           ; The GETFN for this kind of IMAGEOBJ
         (SETQ FILEPTRSAVE (GETFILEPTR FILE))                 ; Save our file location thru the building of the object
         (SETFILEPTR FILE CURCH#)
         (SETQ OBJ (READIMAGEOBJ FILE GETFN))
         (SETFILEPTR FILE FILEPTRSAVE)
         (FSETPC PIECE PCONTENTS OBJ)
         (FSETPC PIECE PTYPE OBJECT.PTYPE)
         (FSETPC PIECE PLOOKS (if (PREVPIECE PIECE)
                                  then (PLOOKS (PREVPIECE PIECE))
                              elseif (FGETTOBJ TEXTOBJ DEFAULTCHARLOOKS)
                                else (\TEDIT.UNIQUIFY.CHARLOOKS (CHARLOOKS.FROM.FONT DEFAULTFONT)
                                              TEXTOBJ)))
         (PCONTENTS PIECE])
)
```

;; VERSION 0 Compatibility reading functions

`(DEFINEQ`

(**TEDIT.GET.PCTB0**

```
  [LAMBDA (TEXT TEXTOBJ PCCOUNT START END)                    ; Edited 17-Mar-2024 12:41 by rmk
                                                              ; Edited 15-Mar-2024 14:47 by rmk
                                                              ; Edited 21-Jan-2024 10:27 by rmk
                                                              ; Edited 19-Dec-2023 10:13 by rmk
                                                              ; Edited 27-Oct-2023 13:47 by rmk
                                                              ; Edited  3-Aug-2023 22:09 by rmk
                                                              ; Edited 26-Apr-2023 14:21 by rmk
                                                              ; Edited  5-Sep-2022 23:06 by rmk
                                                              ; Edited 22-May-92 18:01 by jds
```

;;; READ OBSOLETE FORMATS OF TEDIT FILE

```
    (LET (OLDPC TYPECODE PCLEN PIECEINFOCH# TSTREAM USERFILEFORMAT USERTEMP (CURFILECH# (OR START 0))
           (SBINABLE (fetch (STREAM BINABLE) of TEXT)))
         (SETFILEPTR TEXT (IDIFFERENCE (OR END (GETEOFPTR TEXT))
                                 8))
         (SETQ PIECEINFOCH# (\DWIN TEXT))
         (SETFILEPTR TEXT PIECEINFOCH#)
         (bind PC TYPECODE PCLEN OLDPC (DEFAULTPARALOOKS _ (FGETTOBJ TEXTOBJ FMTSPEC)) for I from 1 to PCCOUNT
            do (SETQ PCLEN (\DWIN TEXT))
               (SETQ PC
                (create PIECE
                        PCONTENTS _ TEXT
                        PFPOS _ CURFILECH#
                        PLEN _ PCLEN
                        PREVPIECE _ OLDPC
                        PPARALOOKS _ DEFAULTPARALOOKS
                        PTYPE _ THINFILE.PTYPE
                        PBYTESPERCHAR _ 1
                        PBINABLE _ SBINABLE))
               [COND
                  (OLDPC (FSETPC OLDPC NEXTPIECE PC)
                         (FSETPC PC PPARALOOKS (PPARALOOKS OLDPC]
               (SETQ TYPECODE (\WIN TEXT))
               (SELECTC TYPECODE
                   (\PieceDescriptorLOOKS
                       (\TEDIT.GET.CHARLOOKS0 PC TEXT)
                       (add CURFILECH# (PLEN PC)))
                   (\PieceDescriptorOBJECT
                       (\TEDIT.GET.OBJECT0 (AND TEXTOBJ (FGETTOBJ TEXTOBJ STREAMHINT))
                             PC TEXT CURFILECH#)
                       (add CURFILECH# (PLEN PC))         ; Only object--can't be followed by either of the others.
                       (FSETPC PC PLEN 1))
                   (\PieceDescriptorPARA
                       (AND OLDPC (FSETPC OLDPC PPARALAST T))
                       (\TEDIT.GET.PARALOOKS0 PC TEXT)
                       (FSETPC PC PLEN (\DWIN TEXT))       ; Set this piece's length from the character looks.
                       (\WIN TEXT)                         ; Skip the piece-type code, since we know what's next
```

```
                              (\TEDIT.GET.CHARLOOKS0 PC TEXT)              ; This document is 'formatted' .
                              (add CURFILECH# (PLEN PC))
                              (AND TEXTOBJ (FSETTOBJ TEXTOBJ FORMATTEDP T)))
                          (SHOULDNT "Impossible piece-type code in BUILD.PCTB"))
                    (SETQ OLDPC PC)
                    (\TEDIT.INSERTPIECE PC NIL TEXTOBJ)
               finally (\TEDIT.UNIQUIFY.ALL TEXTOBJ])
```

(**TEDIT.GET.CHARLOOKS0**

```
  [LAMBDA (PC FILE)                                              ; Edited 16-Jan-2024 23:03 by rmk
                                                                 ; Edited 19-Dec-2023 10:13 by rmk
                                                                 ; Edited  1-Aug-2022 12:04 by rmk
                                                                 ; Edited 30-May-91 20:26 by jds
                                                                 ; Put a description of LOOKS into FILE.  LOOKS apply to
                                                                 ; characters CH1 thru CHLIM-1
    (PROG (FONT STR NAME NAMELEN SIZE SUPER SUB PROPS STYLESTR USERSTR (LOOKS (create CHARLOOKS)))
            (replace (PIECE PLOOKS) of PC with LOOKS)
            (SETQ NAMELEN (\WIN FILE))                           ; The length of the description which follows
            [SETQ NAME (PACK (for I from 1 to NAMELEN collect (CHARACTER (BIN FILE]
                                                                 ; The font name
            (SETQ SIZE (\WIN FILE))                              ; Size of the type, in points
            (SETQ SUPER (\SMALLPIN FILE))                        ; Superscripting distance
            (SETQ SUB (\SMALLPIN FILE))                          ; former Subscripting distance
            (OR (ZEROP SUB)
                (SETQ SUPER (IMINUS SUB)))
      ;; If this is an old file, it'll have a subscript value not zero.  Let those past and do the right thing.
            (COND
                ((NOT (ZEROP (BIN FILE)))                        ; This text is NEW.  Mark it so.
                  (replace (PIECE PNEW) of PC with T)))
            [COND
                ((NOT (ZEROP (BIN FILE)))                        ; There is style or user information to be read
                  (SETQ STYLESTR (\STRINGIN FILE))
                  (SETQ USERSTR (\STRINGIN FILE))
                  (COND
                      ((NOT (ZEROP (NCHARS STYLESTR)))           ; There IS style info
                        (replace (CHARLOOKS CLSTYLE) of LOOKS with (READ STYLESTR)))
                      (T (replace (CHARLOOKS CLSTYLE) of LOOKS with 0)))
                  (COND
                      ((NOT (ZEROP (NCHARS USERSTR)))            ; There IS user info
                        (replace (CHARLOOKS CLUSERINFO) of LOOKS with (READ USERSTR]
            (SETQ PROPS (\WIN FILE))
            (with CHARLOOKS LOOKS [SETQ CLBOLD (NOT (ZEROP (LOGAND 512 PROPS]
                  [SETQ CLITAL (NOT (ZEROP (LOGAND 256 PROPS]
                  [SETQ CLULINE (NOT (ZEROP (LOGAND 128 PROPS]
                  [SETQ CLOLINE (NOT (ZEROP (LOGAND 64 PROPS]
                  [SETQ CLSTRIKE (NOT (ZEROP (LOGAND 32 PROPS]
                  [SETQ CLSMALLCAP (NOT (ZEROP (LOGAND 16 PROPS]
                  [SETQ CLPROTECTED (NOT (ZEROP (LOGAND 8 PROPS]
                  [SETQ CLINVISIBLE (NOT (ZEROP (LOGAND 4 PROPS]
                  [SETQ CLSELHERE (NOT (ZEROP (LOGAND 2 PROPS]
                  [SETQ CLCANCOPY (NOT (ZEROP (LOGAND 1 PROPS]
                  (SETQ CLSIZE SIZE)
                  (SETQ CLOFFSET SUPER))
            (replace (CHARLOOKS CLFONT) of LOOKS with (AND NAME (NOT (ZEROP SIZE))
                                                    (FONTCREATE NAME SIZE (COND
                                                                  ((AND (fetch (CHARLOOKS CLBOLD)
                                                                            of LOOKS)
                                                                        (fetch (CHARLOOKS CLITAL)
                                                                            of LOOKS))
                                                                   'BOLDITALIC)
                                                                  ((fetch (CHARLOOKS CLBOLD)
                                                                      of LOOKS)
                                                                   'BOLD)
                                                                  ((fetch (CHARLOOKS CLITAL)
                                                                      of LOOKS)
                                                                   'ITALIC])
```

(**TEDIT.GET.OBJECT0**

```
  [LAMBDA (STREAM PIECE FILE CURCH#)                             ; Edited  6-Aug-2022 15:57 by rmk
                                                                 ; Edited 12-Jun-90 18:17 by mitani
      ;; Get an object from the file
      ;; CURCH# = fileptr within the text section of the file where the object's text starts.
    (LET ((TEXTOBJ (fetch (TEXTSTREAM TEXTOBJ) of STREAM))
            FILEPTRSAVE NAMELEN GETFN OBJ)
          (SETQ GETFN (\ATMIN FILE))                             ; The GETFN for this kind of IMAGEOBJ
          (SETQ FILEPTRSAVE (GETFILEPTR FILE))                   ; Save our file location thru the building of the object
          (SETFILEPTR FILE CURCH#)
          (SETQ OBJ (READIMAGEOBJ FILE GETFN))
          (SETFILEPTR FILE FILEPTRSAVE)
          (replace (PIECE PCONTENTS) of PIECE with OBJ)
          [replace (PIECE PLOOKS) of PIECE with (COND
                                                    ((fetch (PIECE PREVPIECE) of PIECE)
                                                     (fetch (PIECE PLOOKS) of (fetch (PIECE PREVPIECE) of PIECE)))
```

```
                                             (T (OR (fetch (TEXTOBJ DEFAULTCHARLOOKS) of TEXTOBJ)
                                                    (\TEDIT.UNIQUIFY.CHARLOOKS (CHARLOOKS.FROM.FONT
                                                                                      DEFAULTFONT)
                                                    TEXTOBJ]
          OBJ])
```

(**TEDIT.GET.PARALOOKS0**

```
  [LAMBDA (PC FILE)                               ; Edited 16-Jan-2024 22:57 by rmk
                                                  ; Edited 19-Dec-2023 10:13 by rmk
                                                  ; Edited  3-Mar-2023 23:14 by rmk
                                                  ; Edited  1-Aug-2022 12:04 by rmk
                                                  ; Edited 30-May-91 20:34 by jds
                                                  ; Put a description of LOOKS into FILE.  LOOKS apply to
                                                  ; characters CH1 thru CHLIM-1
     (PROG ((LOOKS (create FMTSPEC))
             TABFLG DEFTAB TABCOUNT TABS TABSPEC)
           (replace (PIECE PPARALOOKS) of PC with LOOKS)
           (replace (FMTSPEC 1STLEFTMAR) of LOOKS with (\SMALLPIN FILE))
                                                  ; Left margin for the first line of the paragraph
           (replace (FMTSPEC LEFTMAR) of LOOKS with (\SMALLPIN FILE))
                                                  ; Left margin for the rest of the paragraph
           (replace (FMTSPEC RIGHTMAR) of LOOKS with (\SMALLPIN FILE))
                                                  ; Right margin for the paragraph
           (replace (FMTSPEC LEADBEFORE) of LOOKS with (\SMALLPIN FILE))
                                                  ; Leading before the paragraph
           (replace (FMTSPEC LEADAFTER) of LOOKS with (\SMALLPIN FILE))
                                                  ; Lead after the paragraph
           (replace (FMTSPEC LINELEAD) of LOOKS with (\SMALLPIN FILE))
                                                  ; inter-line leading
           (replace (FMTSPEC TABSPEC) of LOOKS with (SETQ TABSPEC (CONS DEFAULTTAB NIL)))
                                                  ; Will be tab specs
           (SETQ TABFLG (BIN FILE))
           (replace (FMTSPEC QUAD) of LOOKS with (SELECTC (BIN FILE)
                                                     (1 'LEFT)
                                                     (2 'RIGHT)
                                                     (3 'CENTERED)
                                                     (4 'JUSTIFIED)
                                                     (SHOULDNT)))
           (COND
              ((NOT (ZEROP TABFLG))                  ; There are tabs to read
               (SETQ DEFTAB (\SMALLPIN FILE))
               (SETQ TABCOUNT (BIN FILE))
               [SETQ TABS (for TAB# from 1 to TABCOUNT collect (create TAB
                                                        TABX _ (\SMALLPIN FILE)
                                                        TABKIND _ (SELECTQ (BIN FILE)
                                                                       (0 'LEFT)
                                                                       (1 'RIGHT)
                                                                       (2 'CENTERED)
                                                                       (3 'DECIMAL)
                                                                       (SHOULDNT]
               (OR (ZEROP DEFTAB)
                   (RPLACA TABSPEC DEFTAB))
               (RPLACD TABSPEC TABS])

)
```

FUNCTION INDEX