

File created: 19-Feb-2025 12:09:40 {WMEDLEY}<library>tedit>TEDIT-OLDFILE.;33

edit by: rmk

changes to: (FNS \TEDIT.PUT.SINGLE.PARALOOKS2 \TEDIT.GET.SINGLE.PARALOOKS2 \TEDIT.GET.PARALOOKS1  
\TEDIT.GET.PARALOOKS0)

previous date: 8-Feb-2025 22:08:39 {WMEDLEY}<library>tedit>TEDIT-OLDFILE.;31

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

(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 TSTREAM PCCOUNT START END)

; Edited 8-Feb-2025 20:21 by rmk  
; Edited 21-Oct-2024 00:33 by rmk  
; Edited 29-Apr-2024 10:28 by rmk  
; 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.

(LET ((TEXTOBJ (TEXTOBJ! (fetch (TEXTSTREAM TEXTOBJ) of TSTREAM)))

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 DEFAULTPARALOOKS))

(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))))

; This is the list of CHARLOOKSs used in this document.

(\PieceDescriptorCHARLOOKSLIST

(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 TSTREAM 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))))
(\TEDIT.THELP "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 paraloooks 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))
                 (FSETPC PC PLEN (IQUOTIENT (FGETPC PC PLEN)
                                             2))
                 (FSETPC PC PTYPE FATFILE2.PTYPE)
                 (FSETPC PC PBYTESPERCHAR 2))))
```

```
; XCSS FAT. It may be a continuation of a previous fat piece
```

(\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 micras and scaling them down, we scale them back up.
```

```
(LET (FRAMETYPE PAGEFRAME)
      (COND
        ((type? PAGERECTION PAGELIST)
         PAGELIST)
        ((NEQ 'LIST (SETQ FRAMETYPE (pop PAGELIST)))
         [SETQ PAGEFRAME (create PAGERECTION
                                REGIONFILLMETHOD _ FRAMETYPE
                                REGIONTYPE _ (pop PAGELIST)
                                REGIONLOCALINFO _ (pop PAGELIST)
                                REGIONSPEC _ (OR (pop PAGELIST)
                                                  (LIST 0 0 0 0))
                                (CL:WHEN (AND (EQ 'PAGE (fetch (PAGERECTION REGIONFILLMETHOD) of PAGEFRAME))
                                             (LESSP (fetch (REGION WIDTH) of (fetch (PAGERECTION REGIONSPEC) of PAGEFRAME))
                                                  18))
                                             (change (fetch (PAGERECTION REGIONSPEC) of PAGEFRAME)
                                                     (SELECTQ (fetch (REGION HEIGHT) of DATUM)
                                                           (22 (CREATEREGION 0 0 612 792)) ; Letter
                                                           (29 (CREATEREGION 0 0 612 1008)) ; Legal
                                                           (24 (CREATEREGION 0 0 595 842)) ; A4
                                                           (fetch (PAGERECTION 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 7-Jan-2025 12:29 by rmk
; Edited 2-Jan-2025 11:09 by rmk
; Edited 31-Jul-2024 00:05 by rmk
; 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 BOLD ITALIC)
      (SETQ NAME (\ARBIN FILE)) ; The font name
      (SETQ SIZE (\WIN FILE)) ; Size of the type, in points
      (SETQ SUPER (\SMALLPIN FILE)) ; Superscripting distance
      (FSETCLOOKS LOOKS CLSTYLE (OR (\ARBIN FILE)
                                    0))
      (FSETCLOOKS LOOKS CLUSERINFO (\ARBIN FILE))
      (SETQ PROPS (\WIN FILE))
      [SETQ BOLD (NOT (ZEROP (LOGAND 512 PROPS))
      [SETQ ITALIC (NOT (ZEROP (LOGAND 256 PROPS))
```

```
(with CHARLOOKS LOOKS [SETQ CLLEADER (NOT (ZEROP (LOGAND 2048 PROPS)
[SETQ CLINVERTED (NOT (ZEROP (LOGAND 1024 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 CLSELAFTER (NOT (ZEROP (LOGAND 2 PROPS)
[SETQ CLCANCOPY (NOT (ZEROP (LOGAND 1 PROPS)
(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 BOLD ITALIC)
'BOLDITALIC)
(BOLD 'BOLD)
(ITALIC 'ITALIC)
(FSETCLOOKS LOOKS CLFONT FONT)
(FSETCLOOKS LOOKS CLNAME (FONTUNPARSE FONT))
(RETURN LOOKS])
```

(\TEDIT.PUT.SINGLE.PARALOOKS2

```
[LAMBDA (FILE LOOKS) ; Edited 19-Feb-2025 12:09 by rmk
; Edited 21-Oct-2024 00:33 by rmk
; Edited 29-Jul-2024 23:25 by rmk
; Edited 28-Jul-2024 16:07 by rmk
; 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 TABS OUTPUTFORMAT LEN)
(\SMALLPOUT FILE (FGETPLOOKS LOOKS 1STLEFTMAR)) ; Left margin for the first line of the paragraph
(\SMALLPOUT FILE (FGETPLOOKS LOOKS LEFTMAR)) ; Left margin for the rest of the paragraph
(\SMALLPOUT FILE (FGETPLOOKS LOOKS RIGHTMAR)) ; Right margin for the paragraph
(\SMALLPOUT FILE (FGETPLOOKS LOOKS LEADBEFORE)) ; Leading before the paragraph
(\SMALLPOUT FILE (FGETPLOOKS LOOKS LEADAFTER)) ; Lead after the paragraph
(\SMALLPOUT FILE (FGETPLOOKS LOOKS LINELEAD)) ; inter-line leading
(SETQ DEFTAB (FGETPLOOKS LOOKS FMTDEFAULTTAB))
(SETQ TABS (FGETPLOOKS LOOKS FMTTABS))
(COND
((AND (OR DEFTAB TABS)) ; 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 (FGETPLOOKS LOOKS QUAD)
(LEFT 1)
(RIGHT 2)
((CENTER CENTERED)
3)
((JUST JUSTIFIED)
4)
(\TEDIT.THELP)))
(CL:WHEN (OR TABS DEFTAB) ; There are tab specs to save.
(\SMALLPOUT FILE (OR DEFTAB 0))
(\BOUT FILE (LENGTH TABS))
(CL:WHEN TABS ; # of tab settings <256!
[for TAB in TABS do (\SMALLPOUT FILE (fetch (TAB TABX) of TAB)) ; And setting and type
(\BOUT FILE (SELECTQ (fetch (TAB TABKIND) of TAB)
(LEFT 0)
(RIGHT 1)
(CENTERED 2)
(DEcimal 3)
(\TEDIT.THELP]))
(\SMALLPOUT FILE (OR (FGETPLOOKS LOOKS FMTSPECIALX)
0))
(\SMALLPOUT FILE (OR (FGETPLOOKS LOOKS FMTSPECIALY)
0))
(\ARBOU FILE (FGETPLOOKS LOOKS FMTUSERINFO))
(\ATMOUT FILE (FGETPLOOKS LOOKS FMTPARATYPE))
(\ATMOUT FILE (FGETPLOOKS LOOKS FMTPARASUBTYPE))
(\ARBOU FILE (FGETPLOOKS LOOKS FMTSTYLE))
(\ARBOU FILE (FGETPLOOKS LOOKS FMTCHARSTYLES))
(\ARBOU FILE (FGETPLOOKS LOOKS FMTNEWPAGEBEFORE))
(\ARBOU FILE (FGETPLOOKS LOOKS FMTNEWPAGEAFTER])
```

(\TEDIT.PUT.SINGLE.CHARLOOKS2

```
[LAMBDA (FILE LOOKS) ; Edited 2-Jan-2025 10:51 by rmk
```

; Edited 31-Jul-2024 00:05 by rmk  
; 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 (GETCLOOKS LOOKS CLFONT))
      STR LEN)
      [COND
        ((type? FONTCLASS FONT)
         (\ABOUT FILE (FONTCLASSUNPARSE FONT)))
        (T
         (\ATMOUT FILE (FONTPROP FONT 'FAMILY)
          (\WOUT FILE (OR (FONTPROP FONT 'SIZE)
                          0))
          (\SMALLPOUT FILE (OR (GETCLOOKS LOOKS CLOFFSET)
                               0))
          (COND
            ([AND (GETCLOOKS LOOKS CLSTYLE)
                  (NOT (ZEROP (GETCLOOKS LOOKS CLSTYLE]
                             (\ABOUT FILE (GETCLOOKS LOOKS CLSTYLE)))
                  (T (\WOUT FILE 0)))
            (COND
              ((GETCLOOKS LOOKS CLUSERINFO)
               (\ABOUT FILE (GETCLOOKS LOOKS CLUSERINFO LOOKS)))
              (T (\WOUT FILE 0)))
            (\WOUT FILE (LOGOR (CL:IF (GETCLOOKS LOOKS CLLEADER LOOKS)
                                     2048
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLINVERTED LOOKS)
                                     1024
                                     0)
                              (CL:IF (EQ 'BOLD (FONTPROP FONT 'WEIGHT))
                                     512
                                     0)
                              (CL:IF (EQ 'ITALIC (FONTPROP FONT 'SLOPE))
                                     512
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLULINE)
                                     128
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLOLINE)
                                     64
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLSTRIKE)
                                     32
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLSMALLCAP)
                                     16
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLPROTECTED)
                                     8
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLINVISIBLE)
                                     NIL
                                     4
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLSELAFTER)
                                     2
                                     0)
                              (CL:IF (GETCLOOKS LOOKS CLCANCOPY)
                                     1
                                     0)]))
        ]))
```

; For font classes, we need to save a list of device-FD sets  
; For FONTDESCRIPTORS, do it the easy way  
; The font family  
; Size of the type, in points  
; Super/subscripting distance

**(\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 19-Feb-2025 12:09 by rmk  
; Edited 8-Feb-2025 22:05 by rmk  
; Edited 23-Oct-2024 16:07 by rmk  
; Edited 21-Oct-2024 00:33 by rmk  
; Edited 5-Aug-2024 09:48 by rmk  
; Edited 29-Jul-2024 23:22 by rmk  
; Edited 28-Jul-2024 21:35 by rmk  
; 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.

```
(LET ((PARALOOKS (create PARALOOKS))
```

```

TABFLG DEFTAB TABS)
(FSETPLOOKS PARALOOKS 1STLEFTMAR (\SMALLPIN FILE)) ; Left margin for the first line of the paragraph
(FSETPLOOKS PARALOOKS LEFTMAR (\SMALLPIN FILE)) ; Left margin for the rest of the paragraph
(FSETPLOOKS PARALOOKS RIGHTMAR (\SMALLPIN FILE)) ; Right margin for the paragraph
(FSETPLOOKS PARALOOKS LEADBEFORE (\SMALLPIN FILE)) ; Leading before the paragraph
(FSETPLOOKS PARALOOKS LEADAFTER (\SMALLPIN FILE)) ; Lead after the paragraph
(FSETPLOOKS PARALOOKS LINELEAD (\SMALLPIN FILE)) ; inter-line leading
(SETQ TABFLG (BIN FILE))
(FSETPLOOKS PARALOOKS QUAD (SELECTC (BIN FILE)
(1 'LEFT)
(2 'RIGHT)
(3 'CENTERED)
(4 'JUSTIFIED)
(\TEDIT.THELP)))
(CL:UNLESS (ZEROP (LOGAND TABFLG 1)) ; There are tabs to read
(SETQ DEFTAB (\SMALLPIN FILE))
(CL:WHEN (ILEQ DEFTAB 1)
(SETQ DEFTAB DEFAULTTAB))
(FSETPLOOKS PARALOOKS FMTDEFAULTTAB DEFTAB)
[SETQ TABS (for TAB# from 1 to (BIN FILE) collect (create TAB
TABX _ (\SMALLPIN FILE)
TABKIND _ (SELECTQ (BIN FILE)
(0 'LEFT)
(1 'RIGHT)
(2 'CENTERED)
(3 'DECIMAL)
(\TEDIT.THELP)

(FSETPLOOKS PARALOOKS FMTTABS TABS))
(CL:UNLESS (FGETPLOOKS PARALOOKS FMTDEFAULTTAB)
(FSETPLOOKS PARALOOKS FMTDEFAULTTAB DEFAULTTAB))
(CL:UNLESS (ZEROP (LOGAND TABFLG 2)) ; There are other paragraph parameters to be read.
(FSETPLOOKS PARALOOKS FMTSPECIALX (\SMALLPIN FILE)) ; Special X location on page for this paragraph
(FSETPLOOKS PARALOOKS FMTSPECIALY (\SMALLPIN FILE))
(FSETPLOOKS PARALOOKS FMTUSERINFO (\ARBIN FILE))
(FSETPLOOKS PARALOOKS FMTPARATYPE (\ATMIN FILE))
(FSETPLOOKS PARALOOKS FMTPARASUBTYPE (\ATMIN FILE))
(FSETPLOOKS PARALOOKS FMTSTYLE (\ARBIN FILE))
(FSETPLOOKS PARALOOKS FMTCHARSTYLES (\ARBIN FILE))
(FSETPLOOKS PARALOOKS FMTNEWPAGEBEFORE (\ARBIN FILE))
(FSETPLOOKS PARALOOKS FMTNEWPAGEAFTER (\ARBIN FILE)))
PARALOOKS]])

```

(\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)))
(\DWOOUT 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)))
(\DWOOUT 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 TSTREAM PCCOUNT START END)

; Edited 8-Feb-2025 20:22 by rmk
; Edited 21-Oct-2024 00:33 by rmk
; Edited 29-Apr-2024 10:28 by rmk
; 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 of file. For use in reading files within files.

```
(LET ((TEXTOBJ (TEXTOBJ! (fetch (TEXTSTREAM TEXTOBJ) of TSTREAM)))
      PIECEINFOCH#
      (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 OLDPARALOOKS))
            (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)
                (add CURFILECH# (PLEN PC))
              )
              (\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 TSTREAM 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))
                    (\TEDIT.THELP "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 30-Aug-2024 15:43 by rmk
; 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 (SETQ PAGELIST (CAR PAGELIST))
(TEDIT.COMPOUND.PAGEFORMAT (\TEDIT.PARSE.PAGEFRAMES1 (pop PAGELIST))
(\TEDIT.PARSE.PAGEFRAMES1 (pop PAGELIST))
(\TEDIT.PARSE.PAGEFRAMES1 (pop PAGELIST]))
```

(\TEDIT.GET.CHARLOOKS1

[LAMBDA (PC FILE)

; Edited 2-Jan-2025 11:09 by rmk
; Edited 31-Jul-2024 00:05 by rmk
; 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 BOLD ITALIC (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
(FSETCLOOKS LOOKS CLSTYLE (OR (\ARBIN FILE)
0))
(FSETCLOOKS LOOKS CLUSERINFO (\ARBIN FILE)))
(SETQ PROPS (\WIN FILE))
[SETQ BOLD (NOT (ZEROP (LOGAND 512 PROPS)
[SETQ ITALIC (NOT (ZEROP (LOGAND 256 PROPS)
(with CHARLOOKS LOOKS [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 CLSELAFTER (NOT (ZEROP (LOGAND 2 PROPS)
[SETQ CLCANCOPY (NOT (ZEROP (LOGAND 1 PROPS)
(SETQ CLOFFSET SUPER))
[SETQ FONT (COND
```



```

      ((LISTP NAME) ; This was a font class. Restore it.
      (FONTCLASS (CONS 0 (CDDR NAME))
        'TEDIT-FONTCLASS))
      [(AND NAME (NOT (ZEROP SIZE)))
      (FONTCREATE NAME SIZE (COND
        ((AND BOLD ITALIC)
         'BOLDITALIC)
        (BOLD 'BOLD)
        (ITALIC 'ITALIC)]
      (T ; Should never happen
      (FONTCREATE DEFAULTFONT)
      (FSETCLOOKS LOOKS CLNAME (FONTUNPARSE FONT))
      (FSETCLOOKS LOOKS CLFONT FONT])

```

(\TEDIT.GET.PARALOOKS1

```

[LAMBDA (FILE) ; Edited 19-Feb-2025 12:09 by rmk
; Edited 8-Feb-2025 22:05 by rmk
; Edited 23-Oct-2024 16:08 by rmk
; Edited 21-Oct-2024 00:33 by rmk
; Edited 5-Aug-2024 09:48 by rmk
; Edited 28-Jul-2024 22:00 by rmk
; 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 ((PARALOOKS (create PARALOOKS))
      TABFLG DEFTAB)
      (FSETPLOOKS PARALOOKS 1STLEFTMAR (\SMALLPIN FILE)) ; Left margin for the first line of the paragraph
      (FSETPLOOKS PARALOOKS LEFTMAR (\SMALLPIN FILE)) ; Left margin for the rest of the paragraph
      (FSETPLOOKS PARALOOKS RIGHTMAR (\SMALLPIN FILE)) ; Right margin for the paragraph
      (FSETPLOOKS PARALOOKS LEADBEFORE (\SMALLPIN FILE)) ; Leading before the paragraph
      (FSETPLOOKS PARALOOKS LEADAFTER (\SMALLPIN FILE)) ; Lead after the paragraph
      (FSETPLOOKS PARALOOKS LINELEAD (\SMALLPIN FILE)) ; inter-line leading
      ; Will be tab specs
      (SETQ TABFLG (BIN FILE))
      (FSETPLOOKS PARALOOKS QUAD (SELECTC (BIN FILE)
        (1 'LEFT)
        (2 'RIGHT)
        (3 'CENTERED)
        (4 'JUSTIFIED)
        (\TEDIT.THELP)))
      (CL:UNLESS (ZEROP (LOGAND TABFLG 1)) ; There are tabs to read
      (SETQ DEFTAB (\SMALLPIN FILE))
      (CL:WHEN (ILEQ DEFTAB 1)
      (SETQ DEFTAB DEFAULTTTAB))
      (FSETPLOOKS PARALOOKS FMTDEFAULTTAB DEFTAB)
      [FSETPLOOKS PARALOOKS FMTTABS (for TAB# from 1 to (BIN FILE)
        collect (create TAB
          TABX _ (\SMALLPIN FILE)
          TABKIND _ (SELECTQ (BIN FILE)
            (0 'LEFT)
            (1 'RIGHT)
            (2 'CENTERED)
            (3 'DECIMAL)
            (\TEDIT.THELP])
      (CL:UNLESS (FGETPLOOKS PARALOOKS FMTDEFAULTTTAB)
      (FSETPLOOKS PARALOOKS FMTDEFAULTTTAB DEFAULTTTAB))
      (CL:UNLESS (ZEROP (LOGAND TABFLG 2)) ; There are other paragraph parameters to be read.
      (FSETPLOOKS PARALOOKS FMTSPECIALX (\SMALLPIN FILE)) ; Special X location on page for this paragraph
      (FSETPLOOKS PARALOOKS FMTSPECIALY (\SMALLPIN FILE))
      (FSETPLOOKS PARALOOKS FMTUSERINFO (\ARBIN FILE))
      (FSETPLOOKS PARALOOKS FMTPARATYPE (\ATMIN FILE))
      (FSETPLOOKS PARALOOKS FMTPARASUBTYPE (\ATMIN FILE))
      (FSETPLOOKS PARALOOKS FMTSTYLE (\ARBIN FILE))
      (FSETPLOOKS PARALOOKS FMTCHARSTYLES (\ARBIN FILE))
      (FSETPLOOKS PARALOOKS FMTNEWPAGEBEFORE (\ARBIN FILE))
      (FSETPLOOKS PARALOOKS FMTNEWPAGEAFTER (\ARBIN FILE)))
      PARALOOKS])

```

(TEDIT.GET.OBJECT1

```

[LAMBDA (STREAM PIECE FILE CURCH#) ; Edited 31-Jul-2024 12:09 by rmk
; 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 (\TEDIT.CHARLOOKS.FROM.FONT DEFAULTFONT)
    TEXTOBJ)))
(PCONTENTS PIECE])
```

)

:: VERSION 0 Compatibility reading functions

(DEFINEQ

(TEDIT.GET.PCTB0

[LAMBDA (TEXT TSTREAM PCCOUNT START END)

```
; Edited 8-Feb-2025 20:22 by rmk
; Edited 21-Oct-2024 00:33 by rmk
; Edited 29-Apr-2024 10:27 by rmk
; 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 ((TEXTOBJ (TEXTOBJ! (fetch (TEXTSTREAM TEXTOBJ) of TSTREAM)))
  OLDPC TYPECODE PCLN 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 PCLN OLDPC (DEFAULTPARALOOKS _ (FGETTOBJ TEXTOBJ DEFAULTPARALOOKS)) for I
  from 1 to PCCOUNT
  do (SETQ PCLN (\DWIN TEXT))
    (SETQ PC
      (create PIECE
        PCONTENTS _ TEXT
        PFPOS _ CURFILECH#
        PLEN _ PCLN
        PREVPIECE _ OLDPC
        PPARALOOKS _ DEFAULTPARALOOKS
        PTYPE _ THINFILE.PTYPE
        PBYTESPERCHAR _ 1
        PBINABLE _ SBINABLE))
    [COND
      (OLDPC (FSETPC OLDPC NEXTPIECE PC)
        (FSETPC PC PPARALOOKS (PPARALOOKS OLDPC))
      (SETQ TYPECODE (PCLN TEXT))
      (SELECTC TYPECODE
        (\PieceDescriptorLOOKS
          (\TEDIT.GET.CHARLOOKS0 PC TEXT)
          (add CURFILECH# (PLEN PC)))
        (\PieceDescriptorOBJECT
          (\TEDIT.GET.OBJECT0 TSTREAM 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)))
        (\TEDIT.THELP "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 2-Jan-2025 11:09 by rmk
; Edited 31-Jul-2024 00:05 by rmk
; 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 BOLD ITALIC (LOOKS (create CHARLOOKS)))
 (SETPC PC PLOOKS 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.
 (FSETPC PC PNEW 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
 (FSETCLOOKS LOOKS CLSTYLE (READ STYLESTR)))
 (T (FSETCLOOKS LOOKS CLSTYLE 0)))
 (COND
 ((NOT (ZEROP (NCHARS USERSTR))) ; There IS user info
 (FSETCLOOKS LOOKS CLUSERINFO (READ USERSTR))
 (SETQ PROPS (\WIN FILE))
 [SETQ BOLD (NOT (ZEROP (LOGAND 512 PROPS))
 [SETQ ITALIC (NOT (ZEROP (LOGAND 256 PROPS))
 (with CHARLOOKS LOOKS [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 CLSELAFTER (NOT (ZEROP (LOGAND 2 PROPS))
 [SETQ CLCANCOPY (NOT (ZEROP (LOGAND 1 PROPS))
 (SETQ CLOFFSET SUPER))
 (SETQ FONT (if (AND NAME (NOT (ZEROP SIZE)))
 then [FONTCREATE NAME SIZE (COND
 ((AND BOLD ITALIC ITALIC)
 'BOLDITALIC)
 (BOLD 'BOLD)
 (ITALIC 'ITALIC]
 else ; Should never happen
 (FONTCREATE DEFAULTFONT)))
 (FSETCLOOKS LOOKS CLFONT FONT)
 (FSETCLOOKS LOOKS CLNAME (FONTUNPARSE FONT))
 (RETURN LOOKS])

```

(\TEDIT.GET.OBJECT0

```

[LAMBDA (STREAM PIECE FILE CURCH#) ; Edited 31-Jul-2024 12:09 by rmk
 ; 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.UNIQIFY.CHARLOOKS (\TEDIT.CHARLOOKS.FROM.FONT
 DEFAULTFONT)
 TEXTOBJ)
 OBJ))

```

(\TEDIT.GET.PARALOOKS0

```

[LAMBDA (PC FILE) ; Edited 19-Feb-2025 12:09 by rmk
 ; Edited 8-Feb-2025 22:05 by rmk
 ; Edited 23-Oct-2024 16:09 by rmk
 ; Edited 21-Oct-2024 00:33 by rmk
 ; Edited 5-Aug-2024 09:47 by rmk
 ; Edited 29-Jul-2024 23:23 by rmk
 ; Edited 28-Jul-2024 22:23 by rmk
 ; 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

```
(LET ((PARALOOKS (create PARALOOKS))
      TABFLG DEFTAB TABS)
      (SETPC PC PPARALOOKS PARALOOKS)
      (FSETPLOOKS PARALOOKS 1STLEFTMAR (\SMALLPIN FILE))
      (FSETPLOOKS PARALOOKS LEFTMAR (\SMALLPIN FILE))
      (FSETPLOOKS PARALOOKS RIGHTMAR (\SMALLPIN FILE))
      (FSETPLOOKS PARALOOKS LEADBEFORE (\SMALLPIN FILE))
      (FSETPLOOKS PARALOOKS LEADAFTER (\SMALLPIN FILE))
      (FSETPLOOKS PARALOOKS LINELEAD (\SMALLPIN FILE))
      (SETQ TABFLG (BIN FILE))
      (FSETPLOOKS PARALOOKS QUAD (SELECTC (BIN FILE)
                                           (1 'LEFT)
                                           (2 'RIGHT)
                                           (3 'CENTERED)
                                           (4 'JUSTIFIED)
                                           (\TEDIT.THELP))))
```

; Left margin for the first line of the paragraph  
; Left margin for the rest of the paragraph  
; Right margin for the paragraph  
; Leading before the paragraph  
; Lead after the paragraph  
; inter-line leading

```
(CL:UNLESS (ZEROP TABFLG)
            (SETQ DEFTAB (\SMALLPIN FILE))
            (CL:WHEN (ILEQ DEFTAB 1)
                    (SETQ DEFTAB DEFAULTTTAB))
            (FSETPLOOKS PARALOOKS FMTDEFAULTTAB DEFTAB)
            [SETQ TABS (for TAB# from 1 to (BIN FILE) collect (create
```

; There are tabs to read

```
TAB
TABX _ (\SMALLPIN FILE)
TABKIND _ (SELECTQ (BIN FILE)
                (0 'LEFT)
                (1 'RIGHT)
                (2 'CENTERED)
                (3 'DECIMAL)
                (\TEDIT.THELP]
```

```
(FSETPLOOKS PARALOOKS FMTTABS TABS))
(CL:UNLESS (FGETPLOOKS PARALOOKS FMTDEFAULTTTAB)
            (FSETPLOOKS PARALOOKS FMTDEFAULTTTAB DEFAULTTTAB))
PARALOOKS])
```

)

---

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---