

File created: 19-Apr-2024 09:12:32 {WMEDLEY}<library>TEDIT>TEDIT-HCPY.;153

edit by: rmk

changes to: (FNS \TEDIT.HARDCOPY.DISPLAYLINE)

previous date: 20-Mar-2024 11:05:37 {WMEDLEY}<library>TEDIT>TEDIT-HCPY.;152

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

## (RPAQQ TEDIT-HCPYCOMS

```
((COMS
  ;; Generic interface functions and common code
  (FNS TEDIT.HARDCOPY \TEDIT.PRINT.MENU TEDIT.HCPYFILE \TEDIT.HARDCOPY.DISPLAYLINE
    \TEDIT.HARDCOPY.FORMATLINE.HEADINGS \TEDIT.HARDCOPY.MODIFYLOOKS \TEDIT.HCPYFMTSPEC
    \TEDIT.INTEGER.IMAGEBOX \TEDIT.DISPLAY.DIACRITIC))
  (COMS
    ;; Functions for scaling regions as needed during hardcopy.
    (FNS \TEDIT.SCALEREGION))
  (COMS
    ;; PRESS-specific code
    (VARS (TEDIT.DEFAULTPAGEREGION (CREATEREGION 2794 1905 16256 23495)))
      ; 0.75 inches from bottom, 1 from top
    )
  [COMS
    ;; Support for the window-menu's HARDCOPY button, LISTFILES, etc. THIS IS SCREWY
    (FNS TEDIT.HARDCOPYFN \TEDIT.HARDCOPYFILEFN \TEDIT.POSTSCRIPT.HARDCOPY \TEDIT.PRESS.HARDCOPY)
    [P (LET [(IPVALUES (ASSOC 'CONVERSION (ASSOC 'INTERPRESS PRINTFILETYPES)
      (CL:WHEN IPVALUES
        ; Only install INTERPRESS printing if INTERPRESS is loaded.
        (LISTPUT IPVALUES 'TEDIT (FUNCTION \TEDIT.POSTSCRIPT.HARDCOPY)))]
      (P (LET [(PRESSVALUES (ASSOC 'CONVERSION (ASSOC 'PRESS PRINTFILETYPES)
        (CL:WHEN PRESSVALUES
          ; Only install PRESS printing if PRESS is loaded.
          (LISTPUT PRESSVALUES 'TEDIT (FUNCTION \TEDIT.PRESS.HARDCOPY)))]
        [COMS
          ;; vars for Japanese Line Break
          (INITVARS (TEDIT.DONT.BREAK.CHARS (CHARCODE ("41,42" "41,43" "41,53" "41,54" "41,74" "41,115"
            "41,133" "41,131" "41,127" "Hira,41" "Hira,43"
            "Hira,45" "Hira,47" "Hira,51" "Hira,103"
            "Hira,143" "Hira,145" "Hira,147" "Hira,156"
            "Kata,41" "Kata,43" "Kata,45" "Kata,47"
            "Kata,51" "Kata,103" "Kata,143" "Kata,145"
            "Kata,147" "Kata,156"))
            (TEDIT.DONT.LAST.CHARS (CHARCODE ("41,114" "41,132" "41,130" "41,126"))
          (COMS
            ;; Support for hardcopying several files as one document
            (FNS TEDIT-BOOK))))
  ;; Generic interface functions and common code
  (DEFINEQ
    (TEDIT.HARDCOPY
      [LAMBDA (STREAM FILE DONTSEND BREAKPAGETITLE SERVER PRINTOPTIONS)
        ; Edited 6-Mar-2024 23:33 by rmk
        ; Edited 5-Jan-88 16:09 by jds
        ;; Send the text to a printer, unless DONTSEND. If DONTSEND and we can't find a server, we'll get the DEFAULTPRINTERTYPE.
        (CL:UNLESS SERVER (SETQ SERVER DEFAULTPRINTINGHOST))
        (COND
          [(OR SERVER DONTSEND)
            (for IMAGETYPE in (PRINTERPROP (PRINTERTYPE SERVER)
              'CANPRINT)
              do (RETURN (TEDIT.FORMAT.HARDCOPY STREAM FILE DONTSEND BREAKPAGETITLE SERVER PRINTOPTIONS IMAGETYPE))
              finally (ERROR (CONCAT "Can't print TEDIT documents on a " (PRINTERTYPE SERVER)
                " printer.")
            (T (TEDIT.PROMPTPRINT (TEXTOBJ STREAM)
              "Can't HARDCOPY: No print server specified." T))
    (TEDIT.PRINT.MENU
      [LAMBDA (TSTREAM)
        ; Edited 25-Jun-2023 13:16 by rmk
        ; Edited 6-Jun-2023 17:48 by rmk
        (LET [(W (CAR (fetch (TEXTOBJ \WINDOW) of (TEXTOBJ TSTREAM)
          (SELECTQ [MENU (create MENU
            ITEMS _ ' ("Print to a file" 'FILE "Puts image on a file; prompts for filename
              and format")
            ("Send to a printer" 'PRINTER "Sends image to a printer of your
              choosing")
            (FILE (HARDCOPYIMAGEW.TOFILE W))
            (PRINTER (HARDCOPYIMAGEW.TOPRINTER W))
            NIL])
```

**(TEDIT.HCPYFILE**

```
[LAMBDA (TSTREAM FILE BREAKPAGETITLE)
; Edited 4-Oct-2022 09:23 by rmk
; Edited 1-Oct-2022 22:12 by rmk
; Edited 12-Jun-90 18:36 by mitani

;; Create a hardcopy-format FILE from the text on TSTREAM, with the file type depending on what the default printer is.
(LET ([IMAGETYPE (CAR (PRINTERPROP (PRINTERTYPE)
'CANPRINT])
(TEXTOBJ (TEXTOBJ TSTREAM))
FILENM TXTFILE)
(CL:WHEN [SETQ FILENM (OR FILE (\TEDIT.MAKEFILENAME (TEDIT.GETINPUT
TEXTOBJ
(CONCAT IMAGETYPE " file name: ")
(COND
((type? STREAM (SETQ TXTFILE (fetch (TEXTOBJ
TXTFILE)
of TEXTOBJ)))
; There was a file, so supply default
(PACKFILENAME
'VERSION NIL 'EXTENSION
(OR (CAR (PRINTFILETYPE IMAGETYPE
'EXTENSION))
'HCPY)
'BODY
(fetch (STREAM FULLFILENAME) of TXTFILE)]
(TEDIT.FORMAT.HARDCOPY TSTREAM FILENM T BREAKPAGETITLE NIL NIL IMAGETYPE])
```

**(TEDIT.HARDCOPY.DISPLAYLINE**

```
[LAMBDA (TEXTOBJ LINE REGION PRSTREAM FORMATTINGSTATE)
; Edited 19-Apr-2024 09:09 by rmk
; Edited 20-Mar-2024 11:04 by rmk
; Edited 15-Mar-2024 19:23 by rmk
; Edited 24-Dec-2023 22:07 by rmk
; Edited 2-Dec-2023 11:17 by rmk
; Edited 28-Oct-2023 23:52 by rmk
; Edited 6-May-2023 20:03 by rmk
; Edited 7-Mar-2023 23:10 by rmk
; Edited 29-Mar-94 13:44 by jds

;; Display LINE on the HARDCOPY file under way. Original FORM-terminated lines end with EOL.
;; If possible, use the information cached in THISLINE
(TEXTOBJ! TEXTOBJ)
(\DTEST LINE 'LINEDESCRIPTOR)

;; Only display the line if it appears before the end of the text!
(CL:UNLESS (IGREATERP (FGETLD LINE LCHAR1 LINE)
(FGETTOBJ TEXTOBJ TEXTLEN))
[LET ((THISLINE (FGETTOBJ TEXTOBJ THISLINE)))
(CL:UNLESS (EQ LINE (fetch DESC of THISLINE))
(\TEDIT.FORMATLINE TEXTOBJ (FGETLD LINE LCHAR1)
LINE REGION PRSTREAM FORMATTINGSTATE))
;; Use the characters cached in THISLINE.
(for CHARSLOT CLOOKS CURY KERN LOOKSTARTX SCALESPPACES (SPACEFACTOR _ (fetch (THISLINE TSPACEFACTOR)
of THISLINE))
(FIRST-SCALEDSPACE-SLOT _ (ffetch (THISLINE TLFIRSTSPACE) of THISLINE))
(SCALE _ (DSPSCALE NIL PRSTREAM))
(TX _ (FGETLD LINE LX1))
incharslots THISLINE first (DSPSPACEFACTOR 1 PRSTREAM)
(DSPXPOSITION TX PRSTREAM)
do ;; Display the line character by character. CHAR and CHARW are bound to CHARSLOT values
(SELCHARQ CHAR
(SPACE (CL:WHEN (EQ CHARSLOT FIRST-SCALEDSPACE-SLOT)
; Time to turn on space scaling.
(DSPSPACEFACTOR SPACEFACTOR PRSTREAM)
(SETQ SCALESPPACES T))
(\OUTCHAR PRSTREAM (CHARCODE SPACE))
(add TX (CL:IF SCALESPPACES
(HCSCALE SPACEFACTOR CHARW)
CHARW)))
((TAB Meta,TAB) ; Dotted leaders are meta-TAB, or are DOTTEDLEADER.
(CL:WHEN (OR (EQ CHAR (CHARCODE Meta,TAB))
(fetch CLLEADER of CLOOKS)
(EQ (fetch CLUSERINFO of CLOOKS)
'DOTTEDLEADER))
(LET* [(DOTWIDTH (CHARWIDTH (CHARCODE %.)
(FONTCOPY (fetch (CHARLOOKS CLFONT) of CLOOKS)
'DEVICE PRSTREAM)))
(TTX (IPLUS TX DOTWIDTH (IDIFFERENCE DOTWIDTH (IREMAINDER TX DOTWIDTH)
(DSPXPOSITION (IDIFFERENCE TTX DOTWIDTH)
PRSTREAM) ; Move over to the next even multiple of a dot's width.
(while (ILEQ TTX (IPLUS TX CHARW)) do (\OUTCHAR PRSTREAM (CHARCODE %.)
(add TTX DOTWIDTH))))
(add TX CHARW)
```

```

(DSPXPOSITION TX PRSTREAM)
((EOL LF CR)
NIL)
(NIL ;; LOOKS. Line-start looks are guaranteed to come before any character/object
  (if (type? CHARLOOKS CHARW)
      then (CL:WHEN CLOOKS
            ;; Underline/overline/strike the just-finished looks run
            ; DISPLAY ALSO PASES LINE DESCENT
            (\TEDIT.HARDCOPY.MODIFYLOOKS LINE LOOKSTARTX TX (FGETLD LINE YBASE)
              CLOOKS PRSTREAM))
          (SETQ CLOOKS CHARW)
          (DSPFONT (fetch CLFONT of CLOOKS)
                   PRSTREAM)
          [SETQ CURY (COND
                  [(AND (fetch (CHARLOOKS CLOFFSET) of CLOOKS)
                        (NEQ 0 (fetch (CHARLOOKS CLOFFSET) of CLOOKS)))
                   (IPLUS (FGETLD LINE YBASE)
                          (HCSCALE SCALE (fetch (CHARLOOKS CLOFFSET)
                                                  of CLOOKS)
                                (T (FGETLD LINE YBASE]
                        (DSPYPOSITION CURY PRSTREAM)
                        (CL:WHEN (SETQ KERN (LISTGET (fetch (CHARLOOKS CLUSERINFO) of CLOOKS)
                                                    'KERN))
                                (SETQ KERN (HCSCALE SCALE KERN)))
                        ;; LOOKSTARTX: Starting X position for this CLOOKS.
                        (SETQ LOOKSTARTX TX))
                    (PROGN (if (IMAGEOBJP CHAR)
                              then ;; Go to the base line, left edge of the image region.
                                (SETQ CURY (DSPYPOSITION NIL PRSTREAM))
                                (APPLY* (IMAGEOBJPROP CHAR 'DISPLAYFN)
                                       CHAR PRSTREAM (IMAGESTREAMTYPE PRSTREAM)
                                       (ffetch (TEXTOBJ STREAMHINT) of TEXTOBJ))
                                (DSPFONT (fetch CLFONT of CLOOKS)
                                         PRSTREAM) ; Restore the font, move to after the object's image
                                (MOVETO (IPLUS TX CHARW)
                                         CURY PRSTREAM)
                              elseif (DIACRITICP CHAR)
                              then ;; Special placement for diacritics
                                (SETQ CHARW (\TEDIT.DISPLAY.DIACRITIC CHARSLT THISLINE PRSTREAM))
                              else (\OUTCHAR PRSTREAM CHAR))
                               (add TX CHARW)))
                    finally ;; Do any last-minute underlining or similar looks fix-ups, and print a revision mark, if one is needed:
                        (CL:WHEN CLOOKS
                            (\TEDIT.HARDCOPY.MODIFYLOOKS LINE LOOKSTARTX TX (FGETLD LINE YBASE)
                              CLOOKS PRSTREAM))
                        (CL:WHEN (fetch (FMTSPEC FMTREVISED) of (FGETLD LINE LFMTSPEC))
                                ; This paragraph has been revised, so mark it.
                                (\TEDIT.MARK.REVISION TEXTOBJ (FGETLD LINE LFMTSPEC)
                                  PRSTREAM LINE)))]))

```

**(\TEDIT.HARDCOPY.FORMATLINE.HEADINGS**

```

[LAMBDA (TEXTOBJ TSTREAM LINE FMTSPEC CHNO IMAGESTREAM FORMATTINGSTATE)
; Edited 17-Mar-2024 17:22 by rmk
; Edited 19-Jan-2024 23:19 by rmk
; Edited 3-Oct-2022 13:05 by rmk

```

;; Return setup LINE to skip a sequence of heading pieces STATE

```

(SELECTQ (fetch (FMTSPEC FMTPARATYPE) of FMTSPEC)
(PAGEHEADING ;; This paragraph is the content for a page heading. The pieces are stashed away in the FORMATTING STATE.
  (\TEDIT.HARDCOPY.PAGEHEADING TEXTOBJ TSTREAM LINE FMTSPEC CHNO IMAGESTREAM FORMATTINGSTATE
   )
  T)
(EVEN
  (CL:WHEN (ODDP (GETPFS FORMATTINGSTATE PAGE#))
            (TEDIT.SKIP.SPECIALCOND TSTREAM LINE FMTSPEC CHNO)
            T))
; Skip an odd page.
(ODD
  (CL:WHEN (EVENP (GETPFS FORMATTINGSTATE PAGE#))
            (TEDIT.SKIP.SPECIALCOND TSTREAM LINE FMTSPEC CHNO)
            T))
; Skip an even page
NIL])

```

**(\TEDIT.HARDCOPY.MODIFYLOOKS**

```

[LAMBDA (LINE STARTX CURX CURY LOOKS PRSTREAM)
; Edited 27-May-2023 12:16 by rmk
; Edited 30-May-91 21:17 by jds

```

;; Do underlining, overlining, etc. for hardcopy files

```

[PROG ((STREAMSCALE (DSPSCALE NIL PRSTREAM))
      [RULEWIDTH (FIXR (FTIMES 0.75 (DSPSCALE NIL PRSTREAM))

```

```

(ONEPOINT (FIXR (DSPSCALE NIL PRSTREAM)))
YOFFSET)
(COND
  ((fetch (CHARLOOKS CLULINE) of LOOKS) ; It's underlined.
   (DRAWLINE STARTX (IDIFFERENCE (GETLD LINE YBASE)
                                   (GETLD LINE LTRUEDESCENT LINE))
    CURX
    (IDIFFERENCE (GETLD LINE YBASE)
                  (GETLD LINE LTRUEDESCENT LINE))
    RULEWIDTH
    'PAINT PRSTREAM) ; A 1/2-pt underline
  ))
(COND
  ((fetch (CHARLOOKS CLOLINE) of LOOKS) ; Over-line
   (DRAWLINE STARTX (IPLUS (GETLD LINE YBASE)
                             (GETLD LINE LTRUEASCENT LINE))
    CURX
    (IPLUS (GETLD LINE YBASE LINE)
            (GETLD LINE LTRUEASCENT LINE))
    RULEWIDTH
    'PAINT PRSTREAM)))
(COND
  ((fetch (CHARLOOKS CLSTRIKE) of LOOKS) ; Struch-thru
   (DRAWLINE STARTX (SETQ YOFFSET (IPLUS (GETLD LINE YBASE LINE)
                                           (QUOTIENT [FIXR (FTIMES STREAMSCALE
                                                           (FONTPROP (fetch (CHARLOOKS CLFONT)
                                                           of LOOKS)
                                                           'ASCENT]
                                                           3))))
    CURX YOFFSET RULEWIDTH 'PAINT PRSTREAM]
(MOVETO CURX CURY PRSTREAM])

```

(\TEDIT.HCPYFMTSPEC

[LAMBDA (SPEC IMAGESTREAM)

; Edited 15-Mar-2024 19:34 by rmk  
; Edited 7-Mar-2023 21:03 by rmk  
; Edited 6-Mar-2023 15:14 by rmk  
; Edited 20-Oct-2022 22:35 by rmk  
; Edited 29-Sep-2022 23:32 by rmk  
; Edited 30-May-91 21:18 by jds

:: Given a display-type FMTSPEC, create a hardcopy equivalent. (Special positions are made paper-relative first.)

```

(LET ((SCALE (DSPSCALE NIL IMAGESTREAM))
      FMTSPEC)
  [SETQ FMTSPEC (create FMTSPEC using SPEC FMTHARDCOPYSCALE _ SCALE 1STLEFTMAR _ (HCSCALE
                                                                                   SCALE
                                                                                   (fetch (FMTSPEC 1STLEFTMAR
                                                                                   )
                                                                                   of SPEC))
                LEFTMAR _ (HCSCALE SCALE (fetch (FMTSPEC LEFTMAR) of SPEC))
                RIGHTMAR _ (HCSCALE SCALE (fetch (FMTSPEC RIGHTMAR) of SPEC))
                QUAD _ (fetch (FMTSPEC QUAD) of SPEC)
                TABSPEC _ (\TEDIT.FORMATLINE.SCALETABS SPEC SCALE)
                FMTSPECIALX _ (AND (fetch (FMTSPEC FMTSPECIALX) of SPEC)
                                   (HCSCALE SCALE (SCALEPAGEUNITS (fetch (FMTSPEC
                                                                                   FMTSPECIALX)
                                                                                   of SPEC)
                                                                                   1.0 NIL)))
                FMTSPECIALY _ (AND (fetch (FMTSPEC FMTSPECIALY) of SPEC)
                                   (HCSCALE SCALE (SCALEPAGEUNITS (fetch (FMTSPEC
                                                                                   FMTSPECIALY)
                                                                                   of SPEC)
                                                                                   1.0 NIL)))
                LEADBEFORE _ (HCSCALE SCALE (fetch (FMTSPEC LEADBEFORE) of SPEC))
                LEADAFTER _ (HCSCALE SCALE (fetch (FMTSPEC LEADAFTER) of SPEC))
                LINELEAD _ (HCSCALE SCALE (fetch (FMTSPEC LINELEAD) of SPEC))
                FMTBASETBASE _ (AND (fetch (FMTSPEC FMTBASETBASE) of SPEC)
                                   (HCSCALE SCALE (fetch (FMTSPEC FMTBASETBASE)
                                                           of SPEC)
                                   of SPEC]
      FMTSPEC])

```

(\TEDIT.INTEGER.IMAGEBOX

[LAMBDA (OLDBOX)

(\* jds "23-Oct-84 13:52")  
(\* Take an IMAGEBOX, and assure that its contents are integers)

```

(replace XKERN of OLDBOX with (FIXR (fetch XKERN of OLDBOX)))
(replace YDESC of OLDBOX with (FIXR (fetch YDESC of OLDBOX)))
(replace YSIZE of OLDBOX with (FIXR (fetch YSIZE of OLDBOX)))
(replace XSIZE of OLDBOX with (FIXR (fetch XSIZE of OLDBOX)))
OLDBOX])

```

(\TEDIT.DISPLAY.DIACRITIC

[LAMBDA (CHARSLOT THISLINE IMAGESTREAM)

; Edited 2-Dec-2023 16:44 by rmk  
; Edited 28-Oct-2023 23:51 by rmk

:: Called when CHARSLOT contains a diacritic. This moves to a position so that the diacritic will be centered over the next character, prints the diacritic, and then moves the stream back to its starting position.  
:: Returns the "width" of what was displayed, so the affected character can be positioned wrt the diacritic. 0 unless the diacritic is wider than the character (shift lt 0). TBD

```
(DSPXPOSITION (PROG1 (DSPXPOSITION (IPLUS (DSPXPOSITION NIL IMAGESTREAM)
(\TEDIT.DIACRITIC.SHIFT CHARSLOT THISLINE IMAGESTREAM) )
IMAGESTREAM)
(\OUTCHAR IMAGESTREAM (CHAR CHARSLOT)))
IMAGESTREAM)
0])
```

:: Functions for scaling regions as needed during hardcopy.

(DEFINEQ

(\TEDIT.SCALEREGION

[LAMBDA (SCALEFACTOR REGION)

; Edited 8-Mar-2023 18:20 by rmk  
; Edited 2-Jan-87 12:13 by jds

:: Scale the region REGION by SCALEFACTOR, rounding all the dimensions to integers. Used to scale page-boundary regions during hardcopy.  
:: SCALEREGION in Interpress uses FIX instead of FIXR.

```
(create REGION
LEFT _ (HCSCALE SCALEFACTOR (fetch (REGION LEFT) of REGION))
BOTTOM _ (HCSCALE SCALEFACTOR (fetch (REGION BOTTOM) of REGION))
WIDTH _ (HCSCALE SCALEFACTOR (fetch (REGION WIDTH) of REGION))
HEIGHT _ (HCSCALE SCALEFACTOR (fetch (REGION HEIGHT) of REGION])
```

:: PRESS-specific code

```
(RPAQ TEDIT.DEFAULTPAGEREGION (CREATEREGION 2794 1905 16256 23495))
```

:: 0.75 inches from bottom, 1 from top

:: Support for the window-menu's HARDCOPY button, LISTFILES, etc. THIS IS SCREWY

(DEFINEQ

(\TEDIT.HARDCOPYFN

[LAMBDA (WINDOW IMAGESTREAM)

; Edited 20-Mar-2024 10:49 by rmk  
; Edited 25-Sep-2023 16:29 by rmk  
; Edited 4-Jul-2023 11:16 by rmk  
; Edited 21-Sep-2021 15:33 by rmk:

:: This is the TEdit HARDCOPYFN, hooking into the system's standard Hardcopy window-menu operation.

```
(LET ((TEXTOBJ (TEXTOBJ WINDOW))
(TEXTSTREAM (TEXTSTREAM WINDOW))
WASDIRTY)
```

:: TEXTSTREAM is bound here so we don't drop the steam on the floor if the window goes away, since the TEXTOBJ only has an XPOINTER to the stream in it. Please don't remove this binding!

```
(CL:WHEN (FGETTOBJ TEXTOBJ MENUFLG)
(SETQ WINDOW (\TEDIT.MAINW WINDOW))
(SETQ TEXTOBJ (fetch (TEXTWINDOW WTEXTOBJ) of WINDOW)))
(RESETLST
[RESETSAVE (\TEDIT.MARKACTIVE TEXTOBJ)
' (PROGN (\TEDIT.MARKINACTIVE OLDVALUE)
(FSETTOBJ TEXTOBJ EDITOPACTIVE 'Hardcopy) ; Build the hardcopy
(SETQ WASDIRTY (FGETTOBJ TEXTOBJ \DIRTY))
(PROG1 (TEDIT.FORMAT.HARDCOPY WINDOW IMAGESTREAM)
(FSETTOBJ TEXTOBJ \DIRTY WASDIRTY))])])
```

(\TEDIT.HARDCOPYFILEFN

[LAMBDA (W EXT)

; Edited 25-Sep-2023 16:19 by rmk

```
(LET [(STRM (OR (GETTOBJ (TEXTOBJ W)
TXTFILE)
(AND (GETTOBJ (TEXTOBJ W)
MENUFLG)
(GETTOBJ (TEXTOBJ (\TEDIT.MAINW W)
TXTFILE))
```

```
(CL:WHEN STRM
(PACKFILENAME 'VERSION NIL 'EXTENSION (OR EXT 'IMAGEFILE)
'BODY
(FULLNAME STRM))])])
```

(\TEDIT.POSTSCRIPT.HARDCOPY

[LAMBDA (FILE PFILE)

; Edited 4-Oct-2022 10:40 by rmk  
; Edited 1-Oct-2022 22:08 by rmk  
; Edited 12-Jun-90 18:35 by mitani

;; Send the document FILE to the printer (or to a print file, as determined by PFILE).

```
(CL:WITH-OPEN-STREAM (TEXT-STREAM (OPENTEXTSTREAM FILE))
  (RESETLST
    [RESETSAVE (\TEDIT.MARKACTIVE (TEXTOBJ TEXT-STREAM)
      ' (AND (\TEDIT.MARKINACTIVE OLDVALUE]
    [RESETSAVE NIL ` (AND (CLOSEF? ',PFILE]
    (replace (TEXTOBJ EDITOPACTIVE) of (TEXTOBJ TEXT-STREAM) with 'Hardcopy)
    (TEDIT.FORMAT.HARDCOPY TEXT-STREAM PFILE T NIL NIL NIL 'POSTSCRIPT)
    PFILE]))
```

**(\TEDIT.PRESS.HARDCOPY**

[LAMBDA (FILE PFILE)

; Edited 12-Jun-90 18:36 by mitani  
(\* Send the text to the printer.)

```
[SETQ FILE (OPENTEXTSTREAM (COND
  ((STRINGP FILE)
   (MKATOM FILE))
  (T FILE]
(RESETLST
  [RESETSAVE (\TEDIT.MARKACTIVE (TEXTOBJ FILE))
    ' (AND (\TEDIT.MARKINACTIVE OLDVALUE]
  (replace (TEXTOBJ EDITOPACTIVE) of (TEXTOBJ FILE) with 'Hardcopy)
  (TEDIT.FORMAT.HARDCOPY FILE PFILE T NIL NIL NIL 'PRESS)
  (CLOSEF? PFILE)
  PFILE))]
```

)

```
[LET [(IPVALUES (ASSOC 'CONVERSION (ASSOC 'INTERPRESS PRINTFILETYPES)
  (CL:WHEN IPVALUES ; Only install INTERPRESS printing if INTERPRESS is loaded.
    (LISTPUT IPVALUES 'TEDIT (FUNCTION \TEDIT.POSTSCRIPT.HARDCOPY)))]
```

```
[LET [(PRESSVALUES (ASSOC 'CONVERSION (ASSOC 'PRESS PRINTFILETYPES)
  (CL:WHEN PRESSVALUES ; Only install PRESS printing if PRESS is loaded.
    (LISTPUT PRESSVALUES 'TEDIT (FUNCTION \TEDIT.PRESS.HARDCOPY)))]
```

;; vars for Japanese Line Break

```
(RPAQ? TEDIT.DONT.BREAK.CHARS
  (CHARCODE ("41,42" "41,43" "41,53" "41,54" "41,74" "41,115" "41,133" "41,131" "41,127" "Hira,41"
    "Hira,43" "Hira,45" "Hira,47" "Hira,51" "Hira,103" "Hira,143" "Hira,145" "Hira,147"
    "Hira,156" "Kata,41" "Kata,43" "Kata,45" "Kata,47" "Kata,51" "Kata,103" "Kata,143"
    "Kata,145" "Kata,147" "Kata,156")))
```

```
(RPAQ? TEDIT.DONT.LAST.CHARS (CHARCODE ("41,114" "41,132" "41,130" "41,126")))
```

;; Support for hardcopying several files as one document

(DEFINEQ

**(TEDIT-BOOK**

[LAMBDA (FILES DIRECTORY PRINT-FILE DONT-SEND)
 (LET ((DOC (OPENTEXTSTREAM (MKATOM (CAR FILES))
 NIL)))

; Edited 22-Mar-93 23:55 by jds

;; Gather all the files into one document:

```
(for FILE in (CDR FILES) do (TEDIT.SETSEL DOC 1 (fetch (TEXTOBJ TEXTLEN) of (TEXTOBJ DOC))
  'RIGHT NIL NIL)
  (TEDIT.INCLUDE DOC (PACK* (OR DIRECTORY "")
    FILE)))
```

; Set page layout

```
(TEDIT.FORMAT.HARDCOPY DOC PRINT-FILE DONT-SEND NIL NIL NIL NIL NIL)
(CLOSEF DOC)]
```

)

---

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