```
16-Mar-2024 07:49:47 {WMEDLEY}lispusers>tmax>TMAX-ENDNOTE.;4
 File created:
      edit by:
                rmk
  changes to:
                (FNS REGMARK GETFN)
previous date:
                26-Jun-2022 18:15:33 {WMEDLEY}<lispusers>tmax>TMAX-ENDNOTE.;3
 Read Table:
                XCL
    Package:
                INTERLISP
       Format:
                 XCCS
(RPAQQ TMAX-ENDNOTECOMS
         (* Developed | under | | support | | from | NIH | grant | RR-00785.)
(* Written | | by | | Frank | | Gilmurray | | and | | Sami | | Shaio. | )
(FNS ADD.ENDNOTE INSERT.ENDNOTES INSERT.ENDNOTES.TEXT DELETE.ENDNOTES NOTESREGIONP SET.ENDNOTE.STYLE
               MAP.ENDNOTE.LOOKS GET.ENDNOTE.FONTS)
         (FNS ENDNOTEP NOTE.PUTFN NOTE.GETFN NOTE.BUTTONEVENTINFN NOTE.WHENSELECTEDFN)
         (VARS ENDNOTE.NOTAG.ITEMS ENDNOTE.TAG.ITEMS)
         REGMARK.COPYFN REGMARK.BUTTONEVENTINFN)
         (INITVARS (\\REGMARKOBJ.IMAGEFNS (IMAGEFNSCREATE (FUNCTION REGMARK.DISPLAYFN)
                                                       (FUNCTION REGMARK. IMAGEBOXFN)
                                                       (FUNCTION REGMARK.PUTFN)
                                                        (FUNCTION REGMARK.GETFN)
                                                        (FUNCTION REGMARK.COPYFN)
                                                        (FUNCTION REGMARK.BUTTONEVENTINFN)
                                                        (FUNCTION NILL)
                                                        (FUNCTION NILL)
                                                        (FUNCTION NILL)
                                                        (FUNCTION NILL)
                                                        (FUNCTION NILL)
                                                        (FUNCTION NILL)
                                                        (FUNCTION NILL))))
         (DECLARE\: EVAL@COMPILE DONTCOPY (RECORDS REGMARKOBJ))))
           (* * |Developed| |under| |support| |from| NIH |grant| RR-00785.)
           (* * |Written| |by| |Frank| |Gilmurray| |and| |Sami| |Shaio.|)
(DEFINEQ
(ADD.ENDNOTE
  (LAMBDA (STREAM WINDOW)
                                                                          (* |fsg| "13-Jul-87 10:44")
           (* * |Insert| |an| ENDNOTE |ImageObject| |as| \a |superscript.| |Displayed| |as| \a |number| |when| |updated.|)
     (LET ((NOTEOBJ (NUMBEROBJ 'NOTE)))
           (TEDIT.INSERT.OBJECT NOTEOBJ STREAM)
          (|replace| (NUMBEROBJ TEXT.AFTER#) |of| (|fetch| OBJECTDATUM |of| NOTEOBJ) |with| (OR (TEDIT.GETINPUT STREAM
                                                                                                            Endnote text:")
                                                                                                   ""))
          (TEDIT.PROMPTPRINT STREAM "" T)
          (AND (UPDATE? WINDOW)
                (UPDATE.NUMBEROBJS WINDOW STREAM 'ENDNOTEP)))))
(INSERT.ENDNOTES
                                                                          (* |fsq| "25-Sep-87 10:23")
  (LAMBDA (STREAM WINDOW)
             * * |Inserts| |text| |of| |endnotes| |at| |the| |end| |of| |the| |TEdit| |document.|
           |The| |text| |is| |inserted| |between| |two| |Region| |marking| |imageobjs.|)
    (LET ((TEXTOBJ (TEXTOBJ STREAM))
           LIST.OF.ENDNOTES)
          (AND (SETQ LIST.OF.ENDNOTES (TSP.LIST.OF.OBJECTS TEXTOBJ 'ENDNOTEP))
(LET ((CARETPOSITION (|fetch| CH# |of| (TEDIT.GETSEL STREAM))))
                      (TEDIT.PROMPTPRINT STREAM (CONCAT (COND
                                                                 ((DELETE.ENDNOTES STREAM)
                                                                  "Rei")
                                                                 (T "I"))
                                                            "nserting Endnotes...")
                      (TEDIT.INSERT.OBJECT (REGMARKOBJ 'ENDNOTES ' | Endnotes-START | )
                              STREAM
                              (ADD1 (|fetch| TEXTLEN |of| TEXTOBJ)))
                      (TEDIT.LOOKS STREAM ' (PROTECTED ON)
                              (|fetch| TEXTLEN |of| TEXTOBJ)
                      (TEDIT.INSERT STREAM (CONCAT (CHARACTER (CHARCODE EOL))
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(CHARACTER (CHARCODE EOL)))
                               (ADD1 (|fetch| TEXTLEN |of| TEXTOBJ))
                               (|fetch| (ENDNOTEFONTS TITLE.FONT) |of| (GET.ENDNOTE.FONTS WINDOW))
                      (INSERT.ENDNOTES.TEXT STREAM WINDOW TEXTOBJ LIST.OF.ENDNOTES)
(TEDIT.INSERT.OBJECT (REGMARKOBJ 'ENDNOTES ' | Endnotes-END |)
                      (ADD1 (|fetch| TEXTLEN |of| TEXTOBJ)))
(TEDIT.LOOKS STREAM '(PROTECTED ON)
                               (|fetch| TEXTLEN |of| TEXTOBJ)
                      (TEDIT.PROMPTPRINT STREAM "done")
                      (TEDIT.NORMALIZECARET TEXTOBJ (TEDIT.SETSEL STREAM CARETPOSITION 1)))))))
(INSERT.ENDNOTES.TEXT
  (LAMBDA (STREAM WINDOW TEXTOBJ LIST.OF.ENDNOTES)
                                                                             (* |fsg| "18-Jun-87 13:17")
            (* * |Here| |to| |print| |the| |text| |of| |each| |endnote.|)
    (LET ((TEXTLOOKS (|fetch| (ENDNOTEFONTS TEXT.FONT) |of| (GET.ENDNOTE.FONTS WINDOW)))
          (NUMBLOOKS (|fetch| (ENDNOTEFONTS NUMBER.FONT) | of | (GET.ENDNOTE.FONTS WINDOW)))) (|for | ENDNOTEOBJ |in | LIST.OF.ENDNOTES |do | (LET ((NUMSTRING (MKSTRING (|fetch | (NUMBEROBJ NUMSTRING))))
                                                                                               |of| (|fetch| ObjectDatum
|of| (Car endnoteobj)))))
                                                                  (TEXT (|fetch| (NUMBEROBJ TEXT.AFTER#)
                                                                             |of| (|fetch| Objectdatum |of| (Car endnoteobj)))))
                                                                  (TEDIT.INSERT STREAM NUMSTRING
                                                                          (ADD1 (|fetch| TEXTLEN |of| TEXTOBJ))
                                                                         NUMBLOOKS T)
                                                                                                      " TEXT
                                                                 (TEDIT.INSERT STREAM (CONCAT "
                                                                                                   (CHARACTER (CHARCODE EOL)))
                                                                          (ADD1 (|fetch| TEXTLEN |of| TEXTOBJ))
                                                                         TEXTLOOKS T))))))
(DELETE.ENDNOTES
                                                                             (* |fsg| "25-Sep-87 10:12")
            (* * |Delete| |the| |Endnotes, | |i.e.| |delete| |the| |start/end| REGMARK |ImageObjects| |and| |all| |the| |text| |between| |them.|)
    (LET* ((TEXTOBJ (TEXTOBJ STREAM))
             (NOTEMARKER.LIST (TSP.LIST.OF.OBJECTS TEXTOBJ 'NOTESREGIONP))
             (NOTES.START (CADAR NOTEMARKER.LIST))
             (NOTES.END (CADADR NOTEMARKER.LIST)))
            (AND NOTES.START NOTES.END (PROGN (TEDIT.PROMPTPRINT STREAM "Deleting Endnotes..." T) (TEDIT.DELETE STREAM NOTES.START (IDIFFERENCE (ADD1 NOTES.END)
                                                                                                    NOTES.START))
                                                     (TEDIT.PROMPTPRINT STREAM "done")
                                                    T)))))
(NOTESREGIONP
                                                                             (* |ss:| "27-Jun-87 15:29")
  (LAMBDA (IMOBJ
    (AND (REGMARKOBJP IMOBJ)
          (EQ (|fetch| REGION.USE |of| (|fetch| OBJECTDATUM |of| IMOBJ))
               'ENDNOTES))))
(SET.ENDNOTE.STYLE
  (LAMBDA (STREAM WINDOW)
                                                                             (* |fsg| "18-Aug-87 14:13")
            (* * |Set| |the| |font| |of| |the| ENDNOTE |number,| |title,| |or| |text.|)
    (LET ((NOTE.FONTS (GET.ENDNOTE.FONTS WINDOW))
            (NOTE.TYPE (MENU (|create| MENU
                                                 "Endnote Fonts"
                                        TITLE
                                        CENTERFLG
                                        ITEMS _ '( Number | Title | Text |))))
           OLD.FONT NEW.FONT)
          (AND NOTE.TYPE (PROGN (SETQ OLD.FONT (SELECTQ NOTE.TYPE
                                                                        (|fetch| (ENDNOTEFONTS NUMBER.FONT) |of| NOTE.FONTS))
                                                            ( Number
                                                              Title
                                                                       (|fetch| (ENDNOTEFONTS TITLE.FONT) |of| NOTE.FONTS))
                                                                      (|fetch| (ENDNOTEFONTS TEXT.FONT) |of NOTE.FONTS))
                                                              Text
                                                            NIL))
                                     (TEDIT.PROMPTPRINT STREAM (CONCAT "Change Endnote " NOTE.TYPE " font "
                                                                             (ABBREVIATE.FONT OLD.FONT)
                                                                              to...")
                                             T)
                                     (SETQ NEW.FONT (FONTCREATE (GET.TSP.FONT WINDOW OLD.FONT)))
                                     (COND
                                        ((NEQ OLD.FONT NEW.FONT)
                                          (SELECTO NOTE.TYPE
                                               (|Number | (|replace | (ENDNOTEFONTS NUMBER.FONT) | of | NOTE.FONTS | with |
                                               (|Title| (|replace| (ENDNOTEFONTS TITLE.FONT) |of| NOTE.FONTS |with| NEW.FONT)
```

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{MEDLEY} < lispusers > tmax > TMAX - ENDNOTE.; 1 (SET.ENDNOTE.STYLE cont.)
                                                                                                                       Page 3
                                            (|Text| (|replace| (ENDNOTEFONTS TEXT.FONT) |of| NOTE.FONTS |with| NEW.FONT))
                                           ΝİL)
                                       (AND (EQ NOTE.TYPE ' Number | )
                                             (MAP.ENDNOTE.LOOKS STREAM NEW.FONT)))
                                      (T NIL))
                                  (TEDIT.PROMPTPRINT STREAM "" T))))))
(MAP.ENDNOTE.LOOKS
                                                                       (* |ss:| "27-Jun-87 15:26")
  (LAMBDA (STREAM NUMBERFONT)
           (* * | Here| | Ito| | lupdate| | Ithe| ENDNOTE | looks. | | Only| | Ithe| ENDNOTE | superscript| | numbers | | lare| | lupdated. | |
    (LET ((LIST.OF.NOTES (TSP.LIST.OF.OBJECTS (TEXTOBJ STREAM)
                                   'ENDNOTEP)))
          (AND LIST.OF.NOTES (PROGN (TEDIT.PROMPTPRINT STREAM "Updating ENDNOTE Number looks..." T)
                                       (|for| NOTE/CH# |in| LIST.OF.NOTES |do| (TEDIT.LOOKS STREAM NUMBERFONT
                                                                                      (CADR NOTE/CH#)
                                                                                      1))
                                       (TEDIT.PROMPTPRINT STREAM "done"))))))
(GET.ENDNOTE.FONTS
                                                                        (* |ss:| "27-Jun-87 15:24")
  (LAMBDA (WINDOW)
           (* * |Setup| |the| |default| ENDNOTE |fonts| |for| |number,| |title,| |and| |text.|)
    (OR (WINDOWPROP WINDOW 'ENDNOTE.FONTS)
         (PROGN (WINDOWPROP WINDOW 'ENDNOTE.FONTS (|create| ENDNOTEFONTS
                                                              NUMBER.FONT _ |GP.DefaultFont|
                                                                              |GP.DefaultFont|
                                                              TITLE.FONT _ |GP.DefaultFont| TEXT.FONT _ |GP.DefaultFont|))
                 (WINDOWPROP WINDOW 'ENDNOTE.FONTS)))))
(DEFINEQ
(ENDNOTEP
                                                                       (* |ss:| "27-Jun-87 15:23")
  (LAMBDA (IMOBJ)
           (* * |Like| NUMBEROBJP |but| |also| |checks| |for| NOTE |ImageObject.|)
    (AND (NUMBEROBJP IMOBJ)
          (EQ (|fetch| (NUMBEROBJ USE) |of| (|fetch| OBJECTDATUM |of| IMOBJ))
               NOTE))))
(NOTE.PUTFN
  (LAMBDA (NUMBEROBJ STREAM WINDOW)
                                                                       (* |fsg| "11-Aug-87 10:04")
           (* * |Used| |to| |put| \a |numberobj| |that| |is| |functioning| |as| |an| |endnote.|)
    (|fetch| objectdatum |of| numberobj))
           STREAM)))
(NOTE.GETFN
                                                                        (* |fsg| "16-Jul-87 10:49")
  (LAMBDA (NEWOBJ NOTE.DATUM WINDOW)
           (* * |Used| |to| |get| \a |numberobj| |that| |is| |functioning| |as| |an| |endnote.|)
    (WINDOWPROP WINDOW 'ENDNOTE.FONTS (|for| NOTEFONT |in| (|fetch| (NUMBEROBJ FONT) |of| NOTE.DATUM)
                                             |collect| (FONTCREATE NOTEFONT)))
    (|replace| (NUMBEROBJ FONT) |of| NOTE.DATUM |with| NIL)
    (|replace| OBJECTDATUM |of| NEWOBJ |with| NOTE.DATUM)
(NOTE.BUTTONEVENTINFN
                                                                        (* |fsg| " 5-Aug-87 09:31")
  (LAMBDA (OBJ STREAM WINDOW)
           (* * |Allow| |user| |to| |edit| |Endnote| |text,| |specify| \a TAG\, |delete| |the| TAG\, |or| |change| |the| TAG.)
    (LET* ((TAG (IMAGEOBJPROP OBJ 'TAG))
            (NMENU (|create| MENU
                                    ' | Endnote Menu |
                           TITLE
                           ITEMS _ (COND
                                        (TAG ENDNOTE.TAG.ITEMS)
                                        (T ENDNOTE, NOTAG, ITEMS))
                           CENTERFLG
                           WHENSELECTEDFN
                                              'NOTE.WHENSELECTEDFN)))
           (PUTMENUPROP NMENU 'NOTE.OBJ OBJ)
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{MEDLEY}<lispusers>tmax>TMAX-ENDNOTE.;1 (NOTE.BUTTONEVENTINFN cont.)
            (PUTMENUPROP NMENU 'NOTE.WINDOW WINDOW)
            (MENU NMENU))))
(NOTE.WHENSELECTEDFN
                                                                            (* |fsg| "10-Aug-87 13:48")
  (LAMBDA (ITEM MENU MB)
    (LET* ((WINDOW (GETMENUPROP MENU 'NOTE.WINDOW))
             (OBJ (GETMENUPROP MENU 'NOTE.OBJ))
             (TSTREAM (TEXTSTREAM WINDOW)))
            (SELECTQ (CADR ITEM)
                 ((|Change Tag| |Define Tag|)
                      (LET ((OLD.TAG (IMAGEOBJPROP OBJ 'TAG))
                             (NEW.TAG (TSP.GET.INCODE TSTREAM)))
                            (AND NEW.TAG (NEQ NEW.TAG OLD.TAG)
                                  (PROGN (NUMBER.DELETE.TAG WINDOW OBJ)
                                          (TSP.PUTCODE NEW.TAG OBJ WINDOW)
(IMAGEOBJPROP OBJ 'TAG NEW.TAG)))))
                 (|Delete Tag| (NUMBER.DELETE.TAG WINDOW OBJ))
                 (|Show Tag| (TEDIT.PROMPTPRINT TSTREAM (CONCAT "EndNote Tag=\"" (IMAGEOBJPROP OBJ 'TAG)
                 (|Edit Text| (AUX.TEDIT OBJ (CONCAT "Endnote #" (|fetch| NUMSTRING |of| (|fetch| OBJECTDATUM
                                                                                                     |of| OBJ)))
                                        TSTREAM))
                 (ERROR "Undefined EndNote menu item" ITEM))
           NIL)))
(RPAQQ ENDNOTE.NOTAG.ITEMS ((|Edit Text| |Edit Text| "Edit the text associated with this EndNote.") (|Define Tag| |Define Tag| "Define a TAG for this EndNote.")))
(RPAQQ ENDNOTE.TAG.ITEMS ((|Edit Text| |Edit Text| "Edit the text associated with this EndNote.")
                                 Change Tag | Change Tag | "Change this EndNote's TAG.")
Delete Tag | Delete Tag | "Delete this EndNote's TAG.")
                               (|Show Tag| |Show Tag| "Show this EndNote's TAG.")))
(DECLARE\: EVAL@COMPILE DONTCOPY
(DECLARE\: EVAL@COMPILE
(RECORD ENDNOTEFONTS (NUMBER.FONT TITLE.FONT TEXT.FONT))
           (* * |Allow| |user| |to| |edit| |Endnote| |text| |in| |another| |TEdit| |window.|)
(DEFINEO
(AUX.TEDIT
  (LAMBDA (IMOBJ TITLE STREAM)
                                                                            (* |ss:| "27-Jun-87 15:22")
           (* * |Open| \a |TEdit| |window| |where| |the| |user| |can| |view/edit| |the| |text| |of| |the| |selected| |Endnote.|)
    (LET* ((MAINWINDOW (\\TEDIT.MAINW STREAM))
             (AUXWINDOW (CREATEW (WINDOWPROP MAINWINDOW 'AUXW.REGION)
                                 TITLE)))
           (WINDOWPROP AUXWINDOW 'MAIN.WINDOW MAINWINDOW) (WINDOWPROP AUXWINDOW 'NOTE.IMAGEOBJ IMOBJ)
            (TEDIT NIL AUXWINDOW NIL ' (AFTERQUITFN AUX.TEDIT.AFTERQUITFN TITLEMENUFN AUX.TEDIT.TITLEMENUFN))
            (TEDIT.INSERT (TEXTSTREAM AUXWINDOW)
                    (MKSTRING (|fetch| (NUMBEROBJ TEXT.AFTER#) | Of | (|fetch| OBJECTDATUM | Of | IMOBJ)))
                   NIL
                    (|fetch| (ENDNOTEFONTS TEXT.FONT) |of| (GET.ENDNOTE.FONTS MAINWINDOW))))))
(AUX.TEDIT.AFTERQUITFN
  (LAMBDA (AUXWINDOW)
                                                                           (* |ss:| "27-Jun-87 15:22")
           (* * |Here| AFTER |user| |finished| |with| |Endnote| |TEdit| |process.|)
    (LET ((MAINWINDOW (WINDOWPROP AUXWINDOW 'MAIN.WINDOW)))
          (WINDOWPROP MAINWINDOW 'AUXW.REGION (WINDOWPROP AUXWINDOW 'REGION))
          (GIVE.TTY.PROCESS MAINWINDOW)
          (TEDIT.NORMALIZECARET (TEXTOBJ MAINWINDOW)))))
(AUX.TEDIT.TITLEMENUFN
                                                                            (* |ss:| "27-Jun-87 15:23")
  (LAMBDA (AUXWINDOW)
           (* * |Here| |when| |left| |or| |middle| |button| |hit| |in| |title| |bar.|)
    (LET ((ITEM (MENU (| Create | MENU
                                 CENTERFLG _ T
ITEMS _ '(|Save Changes| |Abort Changes|)))))
          (AND ITEM (PROGN (SELECTQ ITEM
```

(* * |Delimit| |text| |between| |two| |markers| |known| |as| REGION MARKERS.)

(DEFINEQ

)

```
(REGMARKOBJ
```

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(LAMBDA (USE MARKING) (* |fsg| "10-Jul-87 15:58")

(LET ((NEWOBJ (IMAGEOBJCREATE (|create| REGMARKOBJ REGION.USE _ USE MARKING _ MARKING)

(IMAGEOBJPROP NEWOBJ 'TYPE 'REGMARKOBJ)

NEWOBJ)))
```

(TEDIT.QUIT (TEXTSTREAM AUXWINDOW)))))))

(REGMARKOBJP

```
(LAMBDA (IMOBJ)
(AND IMOBJ (EQ (IMAGEOBJPROP IMOBJ 'TYPE)
'REGMARKOBJ))))
```

(REGMARK.DISPLAYFN

```
(LAMBDA (OBJ STREAM) (* |fsg| "18-Feb-87 09:18")

(* REGMARK |is| |just| \a |marker,| |it| |doesn't| |actually| |display| |anything.|)
```

NIL))

(REGMARK.IMAGEBOXFN

YSIZE _ 0

```
(LAMBDA (OBJ STREAM CURRENTX RIGHTMARGIN) (* |fsg| "17-Feb-87 10:22")

(* * REGMARK |is| |just| \a |marker,| |it| |doesn't| |actually| |display| |anything.|)

(|create| IMAGEBOX XSIZE _ 0
```

YDESC _ 0 XKERN _ 0)))

(REGMARK.GETFN

```
(LAMBDA (STREAM COPY.OBJECT) ; Edited 16-Mar-2024 07:45 by rmk (* |fsg| "20-Aug-87 14:58")

(TSP.SETUP.FMMENU (\\TEDIT.PRIMARYW TEXTOBJ)) (APPLY (FUNCTION REGMARKOBJ) (OR COPY.OBJECT (CDR (READ STREAM))))))
```

(REGMARK.COPYFN

(REGMARK.BUTTONEVENTINFN

```
(LAMBDA (MARKOBJ STREAM)
```

; Edited 26-Jun-2022 18:13 by rmk (* |fsg| "18-Feb-87 10:07")

(* |ss:| "27-Jun-87 15:31")

```
(AND (MOUSESTATE MIDDLE)
             (LET ((MARKDATUM (|fetch| OBJECTDATUM |of| MARKOBJ)))

(TEDIT.PROMPTPRINT STREAM (CONCAT "Region used for " (|fetch| (REGMARKOBJ REGION.USE) |of| MARKDATUM
                                                                       ((|fetch| (REGMARKOBJ MARKING) |of| MARKDATUM)
(CONCAT ", Marker is " (|fetch| (REGMARKOBJ MARKING)
|of| MARKDATUM)))
                                                                       (T "")))
                             T)))))
)
(RPAQ? \\REGMARKOBJ.IMAGEFNS
          (IMAGEFNSCREATE (FUNCTION REGMARK.DISPLAYFN)
(FUNCTION REGMARK.IMAGEBOXFN)
(FUNCTION REGMARK.PUTFN)
                    (FUNCTION REGMARK.GETFN)
(FUNCTION REGMARK.COPYFN)
                    (FUNCTION REGMARK.BUTTONEVENTINFN)
                    (FUNCTION NILL)
                    (FUNCTION NILL)
                    (FUNCTION NILL)
                    (FUNCTION NILL)
                    (FUNCTION NILL)
                    (FUNCTION NILL)))
(DECLARE\: EVAL@COMPILE DONTCOPY
(DECLARE\: EVAL@COMPILE
(RECORD REGMARKOBJ (REGION.USE MARKING))
```

{MEDLEY}spusers>tmax>TMAX-ENDNOTE.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:23:10 --

FUNCTION INDEX			
ADD.ENDNOTE	GET.ENDNOTE.FONTS	NOTESREGIONP2 REGMARK.BUTTONEVENTINFN .5 REGMARK.COPYFN5	REGMARK.GETFN
VARIABLE INDEX			
ENDNOTE.NOTAG.ITEMS4	ENDNOTE.TAG.ITEMS4	\\REGMARKOBJ.IMAGEFNS6	
ENDNOTE.NOTAG.ITEMS4	ENDNOTE.TAG.ITEMS4		