

File created: 18-Feb-87 15:43:31 {SUMEX-AIM}PS:<TMAX.SOURCES>ENDNOTE.;4

changes to: (FNS NOTE.BUTTONEVENTINFN)

previous date: 18-Feb-87 10:11:49 {SUMEX-AIM}PS:<GILMURRAY.LISP>ENDNOTE.;6

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

Format: XCCS

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(RPAQQ **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)
(RECORDS ENDNOTEFONTS)
( * * Allow user to edit Endnote text in another Tedit window.)
(FNS AUX.TEDIT AUX.TEDIT.AFTERQUITFN AUX.TEDIT.TITLEMENUFN)
( * * Delimit text between two markers known as REGION MARKERS.)
(FNS REGMARKOBJ REGMARKOBJP REGMARK.DISPLAYFN REGMARK.IMAGEBOXFN REGMARK.PUTFN REGMARK.GETFN
REGMARK.BUTTONEVENTINFN)
(RECORDS REGMARKOBJ))
```

(* * Developed under support from NIH grant RR-00785.)

(* * Written by Frank Gilmurray and Sami Shaio.)

(DEFINEQ

(**ADD.ENDNOTE**

[LAMBDA (STREAM WINDOW)

(* fsg "17-Feb-87 10:47")

(* * Insert an ENDNOTE ImageObject as a superscript. Displayed as a number when updated.)

```
(LET ((NOBJ (NUMBEROBJ 'NOTE)))
(TEDIT.INSERT.OBJECT NOBJ STREAM)
(COND
((UPDATE? WINDOW)
(UPDATE.NUMBEROBS WINDOW 'ENDNOTEP))
(T NIL))
(replace (NUMBEROBJ NUMBER.TEXT) of (fetch OBJECTDATUM of NOBJ) with (TEDIT.GETINPUT STREAM "Endnote
text:"))
(TEDIT.PROMPTPRINT STREAM "" T])
```

(**INSERT.ENDNOTES**

[LAMBDA (STREAM WINDOW)

(* fsg "18-Feb-87 09:38")

(* * 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 (TSP.LIST.OF.OBJECTS TEXTOBJ 'ENDNOTEP))
(CARETPOSITION (fetch CH# of (TEDIT.GETSEL STREAM)
(DELETE.ENDNOTES STREAM)
(COND
(LIST.OF.ENDNOTES (TEDIT.PROMPTPRINT STREAM "Inserting notes at the end of the document..." T)
(TEDIT.INSERT.OBJECT (REGMARKOBJ 'ENDNOTES 'Endnotes-START)
STREAM
(ADD1 (fetch TEXTLEN of TEXTOBJ)))
(TEDIT.LOOKS STREAM ' (PROTECTED ON)
(fetch TEXTLEN of TEXTOBJ)
1)
(TEDIT.INSERT STREAM (CONCAT (CHARACTER (CHARCODE EOL))
"Notes"
(CHARACTER (CHARCODE EOL))))
(ADD1 (fetch TEXTLEN of TEXTOBJ)
(fetch (ENDNOTEFONTS TITLE.FONT) of (GET.ENDNOTE.FONTS WINDOW))
T)
(INSERT.ENDNOTES.TEXT STREAM TEXTOBJ LIST.OF.ENDNOTES)
(TEDIT.INSERT.OBJECT (REGMARKOBJ 'ENDNOTES 'Endnotes-END)
STREAM
(ADD1 (fetch TEXTLEN of TEXTOBJ)))
(TEDIT.LOOKS STREAM ' (PROTECTED ON)
(fetch TEXTLEN of TEXTOBJ)
1)
(TEDIT.PROMPTPRINT STREAM "done")
(TEDIT.NORMALIZECARET TEXTOBJ (TEDIT.SETSEL STREAM CARETPOSITION 1)))
(T NIL)])
```

(**INSERT.ENDNOTES.TEXT**

```

(LET ((LIST.OF.NOTES (TSP.LIST.OF.OBJECTS (TEXTOBJ STREAM)
                                           'ENDNOTE)))
      (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

[LAMBDA (WINDOW)

(* fsg "5-Jan-87 10:40")

(* * 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
                                                    TITLE.FONT _ GP.DefaultFont
                                                    TEXT.FONT _ GP.DefaultFont))
            (WINDOWPROP WINDOW 'ENDNOTE.FONTS]))
```

)

(DEFINEQ

(ENDNOTE.P

[LAMBDA (IMOBJ)

(* ss: "2-Jul-85 16:51")

```
(AND (NUMBEROBJP IMOBJ)
      (EQ (fetch USE of (fetch OBJECTDATUM of IMOBJ))
          'NOTE]))
```

(NOTE.PUTFN

[LAMBDA (NUMBEROBJ STREAM WINDOW)

(* fsg "28-Jan-87 13:48")

(* * Used to put a numberobj that is functioning as an endnote.)

```
(replace (NUMBEROBJ FONT) of (fetch OBJECTDATUM of NUMBEROBJ) with (for NOTEFONT in (GET.ENDNOTE.FONTS WINDOW)
                                                                 collect (LIST.FONT.PROPS NOTEFONT)))
(PRIN4 (LIST 'Endnote (IMAGEOBJPROP NUMBEROBJ 'TAG)
            (fetch OBJECTDATUM of NUMBEROBJ))
      STREAM])
```

(NOTE.GETFN

[LAMBDA (NEWOBJ USE/TEXT WINDOW)

(* fsg "8-Jan-87 10:19")

(* * Used to get a numberobj that is functioning as an endnote.)

```
(WINDOWPROP WINDOW 'ENDNOTE.FONTS (for NOTEFONT in (fetch (NUMBEROBJ FONT) of USE/TEXT)
                                                                 collect (FONTCREATE NOTEFONT)))
(replace (NUMBEROBJ FONT) of USE/TEXT with NIL)
(replace OBJECTDATUM of NEWOBJ with USE/TEXT)
NEWOBJ])
```

(NOTE.BUTTONEVENTINFN

[LAMBDA (NUMBEROBJ STREAM)

(* fsg "18-Feb-87 11:16")

(* * Bring up another TEdit window where user can edit the text of an Endnote.)

```
(MENU (create MENU
              TITLE _ 'Endnotes% Menu
              CENTERFLG _ T
              ITEMS _ ' ((Edit% Endnote (AUX.TEDIT NUMBEROBJ (CONCAT "Endnote #" (fetch NUMSTRING
                                                                 of (fetch OBJECTDATUM
                                                                 of NUMBEROBJ)))
                                                                 STREAM)))
              (Tag% Endnote (XREF.TAG.OBJECT NUMBEROBJ STREAM])))
```

)

(DECLARE: EVAL@COMPILE

(RECORD ENDNOTEFONTS (NUMBER.FONT TITLE.FONT TEXT.FONT))

)

(* * Allow user to edit Endnote text in another TEdit window.)

(DEFINEQ

(AUX.TEDIT

[LAMBDA (IMOBJ TITLE STREAM)

(* fsg "20-Jan-87 15:46")

(* * 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 (MKSTRING (fetch (NUMBEROBJ NUMBER.TEXT) of (fetch OBJECTDATUM of IMOBJ)))
              AUXWINDOW NIL ' (AFTERQUITFN AUX.TEDIT.AFTERQUITFN TITLEMENUFN AUX.TEDIT.TITLEMENUFN]))
```

(AUX.TEDIT.AFTERQUITFN

[LAMBDA (AUXWINDOW)

(* fsg "20-Jan-87 15:56")

(* * 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

[LAMBDA (AUXWINDOW)

(* fsg "20-Jan-87 15:49")

(* * 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
                  (Save% Changes
                   (replace (NUMBEROBJ NUMBER.TEXT) of (fetch OBJECTDATUM of (WINDOWPROP AUXWINDOW
                                                                                       'NOTE.IMAGEOBJ)
                                                                )
                   (with (COERCETEXTOBJ (TEXTSTREAM AUXWINDOW)
                                         'STRINGP)))
                    NIL)
    (TEDIT.QUIT (TEXTSTREAM AUXWINDOW))])
```

(DEFINEQ

(**REGMARKOBJ**

[LAMBDA (USE MARKING)]

(* ss: "15-Jul-85 11:54")

```
(LET [(NEWOBJ (IMAGEOBJCREATE (create REGMARKOBJ
                                     REGION.USE _ USE
                                     MARKING _ MARKING)
                                (IMAGEFNSCREATE (FUNCTION REGMARK.DISPLAYFN)
                                                  (FUNCTION REGMARK.IMAGEBOXFN)
                                                  (FUNCTION REGMARK.PUTFN)
                                                  (FUNCTION REGMARK.GETFN)
                                                  (FUNCTION NIL)
                                                  (FUNCTION REGMARK.BUTTONEVENTINFN)
                                                  (FUNCTION NIL)
                                                  (FUNCTION NIL)
                                                  (FUNCTION NIL)
                                                  (FUNCTION NIL)
                                                  (FUNCTION NIL)
                                                  (FUNCTION NIL)
                                                  (FUNCTION NIL)]
                                (IMAGEOBJPROP NEWOBJ 'TYPE 'REGMARKOBJ)
                                NEWOBJ])
```

(REGMARKOBJP

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

(* ss: "12-Jul-85 15:04")

(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

[LAMBDA (OBJ STREAM CURRENTX RIGHTMARGIN)

(* fsq "17-Feb-87 10:22")

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

```
(create IMAGEBOX
      XSIZE _ 0
      YSIZE _ 0
      YDESC _ 0
      XKERN 01)
```

(REGMARK.PUTFN

[LAMBDA (MARKOBJ STREAM)

(* fsg "28-Jan-87 14:10")

```
(PRIN2 [LIST 'Region (IMAGEOBJPROP MARKOBJ 'TAG)
        (LIST (fetch REGION.USE of (fetch OBJECTDATUM of MARKOBJ))
              (fetch MARKING of (fetch OBJECTDATUM of MARKOBJ)
                STREAM])
```

(REGMARK.GETFN

```
[LAMBDA (STREAM) (* fsg "28-Jan-87 16:06")
  [OR (WINDOWPROP (PROCESSPROP (THIS.PROCESS)
                                'WINDOW)
        'IMAGEOBJ.MENUW)
    (TSP.FMMENU (TEXTSTREAM (PROCESSPROP (THIS.PROCESS)
                                           'WINDOW)
    (LET* [(REGMARK.ARGS (CDR (READ STREAM)))
          (NEWOBJ (APPLY 'REGMARKOBJ (CADR REGMARK.ARGS)
                        (IMAGEOBJPROP NEWOBJ 'TAG (CAR REGMARK.ARGS)
                        NEWOBJ]))
```

(REGMARK.BUTTONEVENTINFN

```
[LAMBDA (MARKOBJ STREAM) (* fsg "18-Feb-87 10:07")

  (** This function is never called because the REGMARK ImageObjects are protected after they are inserted and anything
  protected can't be selected.)

  (AND (MOUSESTATE MIDDLE)
    (LET ((MARKDATUM (fetch OBJECTDATUM of MARKOBJ)))
      (TEDIT.PROMPTPRINT STREAM (CONCAT "Region used for " (fetch REGION.USE of MARKDATUM)
                                         (COND
                                           ((fetch MARKING of MARKDATUM)
                                            (CONCAT ", Marker is " (fetch MARKING of MARKDATUM)))
                                           (T "")))
      T))

)

(DECLARE: EVAL@COMPILE

(RECORD REGMARKOBJ (REGION.USE MARKING))

)

(PUTPROPS ENDNOTE COPYRIGHT ("Leland Stanford Junior University" 1987))
```

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RECORD INDEX

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