

File created: 25-Jun-2024 12:00:23 {WMEDLEY}<lispusers>tmax>TMAX-ENDNOTE.;6

edit by: rmk

changes to: (FNS REGMARK.GETFN)

previous date: 24-Jun-2024 23:30:47 {WMEDLEY}<lispusers>tmax>TMAX-ENDNOTE.;5

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 ENDNOTE.P NOTE.PUTFN NOTE.GETFN NOTE.BUTTONEVENTINFN NOTE.WHENSELECTEDFN)
(VARS ENDNOTE.NOTAG.ITEMS ENDNOTE.TAG.ITEMS)
(DECLARE\ : EVAL@COMPILE DONTCOPY (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.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 NIL)
(FUNCTION NIL)
(FUNCTION NIL)
(FUNCTION NIL)
(FUNCTION NIL)
(FUNCTION NIL)
(FUNCTION NIL)
(FUNCTION NIL)))
(DECLARE\ : EVAL@COMPILE DONTCOPY (RECORDS REGMARKOBJ))))
```

```
(* * |Developed| |under| |support| |from| NIH |grant| RR-00785.)
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```
(* * |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.NUMBEROBS WINDOW STREAM 'ENDNOTE))))
```

(INSERT.ENDNOTES

```
(LAMBDA (STREAM WINDOW) (* |fsg| "25-Sep-87 10:23")
(* * |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 'ENDNOTE))
(LET ((CARETPOSITION (|fetch| CH# |of| (TEDIT.GETSEL STREAM)))
(TEDIT.PROMPTPRINT STREAM (CONCAT (COND
((DELETE.ENDNOTES STREAM)
"Rei")
(T "I"))
"nserting Endnotes...")
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 WINDOW 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))))))

```

(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)
              (TEDIT.INSERT STREAM (CONCAT " " TEXT
              (CHARACTER (CHARCODE EOL)))
              (ADD1 (|fetch| TEXTLEN |of| TEXTOBJ))
              TEXTLOOKS T))))))

```

(DELETE.ENDNOTES

(LAMBDA (STREAM) (* |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

(LAMBDA (IMOBJ) (* |ss:| "27-Jun-87 15:29")

```

(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
        TITLE _ "Endnote Fonts"
        CENTERFLG _ T
        ITEMS _ ' (|Number| |Title| |Text|))))
      (OLD.FONT NEW.FONT)
      (AND NOTE.TYPE (PROGN (SETQ OLD.FONT (SELECTQ NOTE.TYPE
        (|Number| (|fetch| (ENDNOTEFONTS NUMBER.FONT) |of| NOTE.FONTS))
        (|Title| (|fetch| (ENDNOTEFONTS TITLE.FONT) |of| NOTE.FONTS))
        (|Text| (|fetch| (ENDNOTEFONTS TEXT.FONT) |of| NOTE.FONTS))
        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)
            (SELECTQ NOTE.TYPE
              (|Number| (|replace| (ENDNOTEFONTS NUMBER.FONT) |of| NOTE.FONTS |with|
                NEW.FONT)
              (|Title| (|replace| (ENDNOTEFONTS TITLE.FONT) |of| NOTE.FONTS |with| NEW.FONT)

```

```
)
      (|Text| (|replace| (ENDNOTEFONTS TEXT.FONT) |of| NOTE.FONTS |with| NEW.FONT))
      NIL)
      (AND (EQ NOTE.TYPE ' |Number| )
            (MAP.ENDNOTE.LOOKS STREAM NEW.FONT)))
      (T NIL))
      (TEDIT.PROMPTPRINT STREAM " " T))))))
```

(MAP.ENDNOTE.LOOKS

```
(LAMBDA (STREAM NUMBERFONT)
  (* |ss:| "27-Jun-87 15:26")
  (** |Here| |to| |update| |the| ENDNOTE |looks.| |Only| |the| ENDNOTE |superscript| |numbers| |are| |updated|.|)
  (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)
  (* |ss:| "27-Jun-87 15:24")
  (** |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

(ENDNOTEP

```
(LAMBDA (IMOBJ)
  (* |ss:| "27-Jun-87 15:23")
  (** |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|.|)
  (|with| NUMBEROBJ (|fetch| OBJECTDATUM |of| NUMBEROBJ)
    (SETQ FONT (|for| NOTEFONT |in| (GET.ENDNOTE.FONTS WINDOW) |collect| (LIST.FONT.PROPS NOTEFONT))))
  (PRIN4 (LIST ' |Endnote| NIL (IMAGEOBJPROP NUMBEROBJ 'TAG)
              (|fetch| OBJECTDATUM |of| NUMBEROBJ)
              STREAM)))
```

(NOTE.GETFN

```
(LAMBDA (NEWOBJ NOTE.DATUM WINDOW)
  (* |fsg| "16-Jul-87 10:49")
  (** |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)
  NEWOBJ))
```

(NOTE.BUTTONEVENTINFN

```
(LAMBDA (OBJ STREAM WINDOW)
  (* |fsg| " 5-Aug-87 09:31")
  (** |Allow| |user| |to| |edit| |Endnote| |text,| |specify| |a| TAG\, |delete| |the| TAG\, |or| |change| |the| TAG.|)
  (LET* ((TAG (IMAGEOBJPROP OBJ 'TAG))
         (NMENU (|create| MENU
                    TITLE _ ' |Endnote Menu|
                    ITEMS _ (COND
                              (TAG ENDNOTE.TAG.ITEMS)
                              (T ENDNOTE.NOTAG.ITEMS))
                    CENTERFLG _ T
                    WHENSELECTEDFN _ 'NOTE.WHENSELECTEDFN)))
    (PUTMENUPROP NMENU 'NOTE.OBJ OBJ))
```

(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)
\"\"")
T)))
(|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|.)

(DEFINEQ

(AUX.TEDIT

(* |ss:| "27-Jun-87 15:22")

(LAMBDA (IMOBJ TITLE STREAM)
(** |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

(* |ss:| "27-Jun-87 15:22")

(LAMBDA (AUXWINDOW)
(** |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

```
(|Save Changes|
(|replace| (NUMBEROBJ TEXT.AFTER#) |of| (|fetch| OBJECTDATUM
|of| (WINDOWPROP AUXWINDOW
'NOTE.IMAGEOBJ))
|with| (COERCETEXTOBJ (TEXTSTREAM AUXWINDOW)
'STRINGP)))
NIL)
(TEDIT.QUIT (TEXTSTREAM AUXWINDOW))))))
```

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

(DEFINEQ

(REGMARKOBJ

```
(LAMBDA (USE MARKING) (* |fsg| "10-Jul-87 15:58")
(LET ((NEWOBJ (IMAGEOBJCREATE (|create| REGMARKOBJ
REGION.USE _ USE
MARKING _ MARKING)
\\REGMARKOBJ.IMAGEFNS)))
(IMAGEOBJPROP NEWOBJ 'TYPE 'REGMARKOBJ)
NEWOBJ)))
```

(REGMARKOBJP

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

```
(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
YSIZE _ 0
YDESC _ 0
XKERN _ 0)))
```

(REGMARK.PUTFN

```
(LAMBDA (MARKOBJ STREAM) ; Edited 26-Jun-2022 18:12 by rmk
(* |fsg| "23-Jul-87 14:02")
(PRIN2 (LIST ' |Region| (|fetch| (REGMARKOBJ REGION.USE) |of| (|fetch| OBJECTDATUM |of| MARKOBJ))
(|fetch| (REGMARKOBJ MARKING) |of| (|fetch| OBJECTDATUM |of| MARKOBJ)))
STREAM)))
```

(REGMARK.GETFN

```
(LAMBDA (STREAM COPY.OBJECT) ; Edited 25-Jun-2024 11:59 by rmk
; Edited 16-Mar-2024 07:45 by rmk
(* |fsg| "20-Aug-87 14:58")
(DECLARE (USEDFREE TSTREAM))
(TSP.SETUP.FMMENU (\\TEDIT.PRIMARYPANE TSTREAM))
(APPLY (FUNCTION REGMARKOBJ)
(OR COPY.OBJECT (CDR (READ STREAM))))))
```

(REGMARK.COPYFN

```
(LAMBDA (IMAGE.OBJ SOURCE.STREAM TARGET.STREAM) (* |fsg| "23-Jul-87 14:09")
(* * |Here| |to| COPY |a| |RegMark| |Image| |Object.|)
(SELECTQ (IMAGESTREAMTYPE TARGET.STREAM)
(TEXT (LET ((TEXTOBJ (TEXTOBJ TARGET.STREAM)))
(APPLY* (IMAGEOBJPROP IMAGE.OBJ 'GETFN)
TARGET.STREAM
(|fetch| OBJECTDATUM |of| IMAGE.OBJ))))
(ERROR "Unknown TARGET stream type" (IMAGESTREAMTYPE TARGET.STREAM))))
```

(REGMARK.BUTTONEVENTINFN

```
(LAMBDA (MARKOBJ STREAM) ; Edited 26-Jun-2022 18:13 by rmk
(* |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| (REGMARKOBJ REGION.USE) |of| MARKDATUM
                                              )
                                              (COND
                                                ((|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 NIL)
                      (FUNCTION NIL)
                      (FUNCTION NIL)
                      (FUNCTION NIL)
                      (FUNCTION NIL)
                      (FUNCTION NIL)
                      (FUNCTION NIL)
                      (FUNCTION NIL)))
```

(DECLARE\ : EVAL@COMPILE DONTCOPY

(DECLARE\ : EVAL@COMPILE

```
(RECORD REGMARKOBJ (REGION.USE MARKING))
)
)
```

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