```
14-Oct-2023 14:53:17 {WMEDLEY}spusers>TEDITKEY.;4
 File created:
      edit by:
                rmk
  changes to:
                (FNS \SEL.LINEDESC)
previous date:
                24-Oct-2022 15:25:58 {WMEDLEY}spusers>TEDITKEY.;2
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                 XCCS
;; Copyright (c) 1985-1987 by Xerox Corporation.
(RPAQQ TEDITKEYCOMS
        [ (COMS
;;; This is the Lyric-and-later version of TEditKey
         (COMS
                                                                           ; functions for affecting the selection
                (FNS NTHCAR \TEXTOBJ.WINDEX \TK.PREVSCREEN \TK.UNDERLINE.SEL.ON \TK.UNDERLINE.SEL.OFF
                      \TK.BOLD.SEL.ON \TK.BOLD.SEL.OFF \TK.ITALIC.SEL.ON \TK.ITALIC.SEL.OFF \TK.SMALLERSEL \TK.LARGERSEL \TK.SUPERSCRIPTSEL \TK.SUBSCRIPTSEL \TK.DEFAULTSSEL \TK.DEL.WORD.FORWARD
                      \TK.UCASE.SEL \TK.CAPITALISE.SEL \CAPITALISE \TK.LCASE.SEL)
                                                                           functions for affecting the paralooks of the selection
                (FNS \TK.CENTER.SEL \TK.CENTER.SEL.REV \TK.NEST \TK.UNNEST))
         (COMS
                                                                           ; functions for affecting (and displaying) the caret character looks
                (FNS \TK.SHOWCARETLOOKS \TK.BOLD.CARET.ON \TK.BOLD.CARET.OFF \TK.ITALIC.CARET.ON
                      TK.ITALIC.CARET.OFF \TK.UNDERLINE.CARET.ON \TK.UNDERLINE.CARET.OFF \TK.SUPERSCRIPT.CARET
                      TK.SUBSCRIPT.CARET \TK.SMALLER.CARET \TK.LARGER.CARET \TK.DEFAULTS.CARET \TK.FONT1 \TK.FONT2
                      \TK.FONT3 \TK.SETCARETFONT \TK.FONT4 \TK.FONT5 \TK.FONT6 \TK.FONT7 \TK.FONT8)
                                                                           the functions which aren't currently used, which toggle the caret
                                                                            looks
                (FNS \TK.BOLDTOGGLE \TK.ITALICTOGGLE \TK.UNDERLINETOGGLE)
         (COMS
                                                                           ; functions dealing with the default looks
                (FNS \TK.SETDEFAULTLOOKS))
                                                                           ; functions for positioning within a document
         (COMS
                (FNS GOTONEXTTTYWINDOW \TK.NEXTLINE \TK.PREVLINE \TK.GOTODOCBEGIN \TK.GOTODOCEND \TK.GOTOLINEBEGIN
                      \TK.GOTOLINEEND \TK.PREVCHAR \TK.NEXTCHAR \TK.FORWARD.WORD \TK.BACK.WORD \TK.SELECT.ALL))
                                                                           ; other utilities
         (COMS
                (FNS \TK.FIND \TK.REDISPLAY \TK.DELLINEFORWARD \TK.OPENLINE \TK.DELCHARFORWARD \TK.TRANSPOSECHARS)
         (COMS
                                                                           ; little selection utilities etc., for building hacks
                (FNS \SEL.LIMIT \TK.SETFILEPTR.TO.CARET \SEL.LINEDESC)
                (MACROS \SEL.LIMIT.FORWARD \TK.ONOROFF \LINEDESC.LAST.REAL.CHAR))
                                                                           ; fns for the key interface itself
         (COMS
                (FNS \SHIFTACTION \ACTION TEDITKEY.INSTALL TEDITKEY.DEINSTALL \TK.ACTIONTOCHARCODE \TK.BUILD.MENU
                      \TK.HELP \TK.SETFONTINLOOKS WRITE.CHARDESC.AUX CHARDESC TEDITKEY.CONFIGURE \TK.ADDKEY
                      \TK.CHANGEKEY \TK.APPLYPENDING \TK.NTHFONT)
                                                                           ; redefinition of system junk
                (FNS METASHIFT))
         ;; (\TK.BOLDTOGGLE (##H ##h) 'toggle Bold caret looks') (\TK.ITALICTOGGLE (##i ##I) 'toggle Italic caret looks') (\TK.SUPERSCRIPT.CARET (##^) 'Superscript the caret looks') (\TK.SUBSCRIPT.CARET (##_) 'Subscript the caret looks')
         (FNS TEDIT.FULL.FIND)
         [VARS \TK.WHITESPACE (TEDIT.INTERRUPTS '((%, (CHARCODE ^G)
                                                             ERROR)
                                                             (CHARCODE ^C)
                                                             HELP]
         (CONSTANTS (\TK.WHITESPACE 22))
         (INITVARS (TEDITKEY. VERBOSE T)
                  (TEDITKEY.METAKEY 'TAB)
                  (TEDITKEY.LOCKTOGGLEKEY NIL)
                  (TEDITKEY.NESTWIDTH 36)
                  (\TK.SIZEINCREMENT 2)
                  (TEDITKEY.OFFSETINCREMENT 3)
                 (TEDITKEY.FONTS '(TIMESROMAN HELVETICA GACHA MODERN CLASSIC TERMINAL SYMBOL HIPPO))
                 (TEDITKEY.FNKEYFLG T))
         (MACROS METACODE CONTROLCODE LCMETACODE)
         (INITVARS (\TK.SELKEY 'OPEN)
                 (\TK.PENDING))
         [INITVARS [TEDITKEY.KEYBINDINGS '((\TK.FONT1 (%##1)
                                                         (CONCAT "change to font " (\TK.NTHFONT 1)))
                                                 (\TK.FONT2 (%##2)
                                                         (CONCAT "change to font " (\TK.NTHFONT 2)))
                                                 (\TK.FONT3 (%##3)
                                                         (CONCAT "change to font " (\TK.NTHFONT 3)))
                                                 (\TK.FONT4 (%##4)
                                                         (CONCAT "change to font " (\TK.NTHFONT 4)))
```

```
(CONCAT "change to font " (\TK.NTHFONT 5)))
                               (\TK.FONT6 (%##6)
                                       (CONCAT "change to font " (\TK.NTHFONT 6)))
                               (\TK.FONT7 (%##7)
                                       (CONCAT "change to font " (\TK.NTHFONT 7)))
                               (\TK.FONT8 (%##8)
                                       (CONCAT "change to font " (\TK.NTHFONT 8)))
                              NIL
                               (\TK.DEFAULTS.CARET (%##/)
                                       "restore the default caret looks")
                               (\TK.SMALLER.CARET (%##9)
                                       "decrease the caret font size")
                               (\TK.LARGER.CARET (%##0)
                                       "increase the caret font size")
                               (\TK.SHOWCARETLOOKS (%##=)
                                       "display the current caret looks")
                              NIL
                               (\TK.REDISPLAY (%##R %##r)
                                       "Restore the display")
                               (\TK.HELP (%##?)
                                       "displays the current key bindings")
                              NTT.
                               (\TK.PREVCHAR (^B ^b)
                                       "Back one character")
                               (\TK.NEXTCHAR (^F ^f)
                                       "Forward one character")
                               (\TK.FORWARD.WORD (%##F %##f)
                                       "Forward one word")
                               (\TK.BACK.WORD (%##B %##b)
                                       "Back one word")
                               (\TK.GOTOLINEBEGIN (^A ^a)
                                       "go to stArt of line")
                               (\TK.GOTOLINEEND (^E ^e)
                                       "go to End of line")
                               (\TK.PREVLINE (^P ^p)
                                       "go to Previous line")
                               (\TK.NEXTLINE (^N ^n)
                                       "go to Next line")
                               (\TK.GOTODOCBEGIN (%##<)
                                       "start of document")
                               (\TK.GOTODOCEND (%##>)
                                       "end of document")
                               (\TK.SELECT.ALL (%##S %##s)
                                       "Select whole document")
                              NIL
                               (\TK.DELLINEFORWARD (^K ^k)
                                       "Kill line")
                               (\TK.OPENLINE (^O ^o)
                                       "Open up blank line")
                               (\TK.DELCHARFORWARD (^D ^d)
"Delete character forward")
                               (\TK.DEL.WORD.FORWARD (%##D %##d)
                                       "Delete word forward")
                               (\TK.TRANSPOSECHARS (^T ^t)
                                       "Transpose characters")
                              NIL NIL (\TK.NEST (|##[|)
                                                "indents margins (nest)")
                               (\TK.UNNEST (|##]|)
                                       "exdents margins (unnest)")
                               (\TK.CENTER.SEL (%##J %##j)
                                       "alter Justification")
                               (\TK.UCASE.SEL (%##U %##u)
                                       "Uppercasify selection")
                               (\TK.CAPITALISE.SEL (%##C %##c)
                                       "Capitalize selection")
                               (\TK.LCASE.SEL (%##L %##1)
                                       "Lowercasify selection")
                               (GET.OBJ.FROM.USER (%##0 %##0)
                                       "insert Object"]
[TEDITKEY.DLION.KEYACTIONS '((STOP (%, (CHARCODE ^G)
                                             용,
                                             (CHARCODE ^C)
                                            NOLOCKSHIFT))
                                 (OPEN (%, (CHARCODE 2,1)
                                             용.
                                             (CHARCODE 2,41)
                                            NOLOCKSHIFT))
                                 (FONT FONTDOWN . FONTUP)
                                 (KEYBOARD USERMODE1DOWN . USERMODE1UP]
      ;; (TEDITKEY.FNKEYACTIONS (BQUOTE ((CENTER (, (CHARCODE ##^B), (CHARCODE ##^C))) (BOLD (, (CHARCODE ;; ##^D), (CHARCODE ##^E) NOLOCKSHIFT)) (ITALICS (, (CHARCODE ##^F), (CHARCODE ##^G) NOLOCKSHIFT)) ;; (UNDERLINE (, (CHARCODE ##^H), (CHARCODE ##^I) NOLOCKSHIFT)) (SUPERSCRIPT (, (CHARCODE ##^J),
(COMS
```

(\TK.FONT5 (%##5)

```
;; (CHARCODE \#\#^K) NOLOCKSHIFT)) (SUBSCRIPT (, (CHARCODE \#\#^L), (CHARCODE \#\#^N) NOLOCKSHIFT)) ;; (LARGER (, (CHARCODE \#\#^O), (CHARCODE \#\#^P) NOLOCKSHIFT)) (DEFAULTS (, (CHARCODE <math>\#\#^N), (CHARCODE \#\#^N) NOLOCKSHIFT)))) (BS (, (CHARCODE \#M^N), (CHARCODE \#M^N) NOLOCKSHIFT)))))
                  [TEDITKEY.DLION.KEYBINDINGS '(((\ACTION 'OPEN)
                                                         TK.OPENLINE)
                                                       ((\ACTION 'HELP)
                                                        TK.HELP)
                                                       ((\ACTION 'MARGINS)
                                                        TK.NEST)
                                                       ((\SHIFTACTION 'MARGINS)
                                                        TK.UNNEST)
                                                       ((\SHIFTACTION 'NEXT)
                  GOTONEXTTTYWINDOW]
[TEDITKEY.FNKEYBINDINGS '(((\ACTION 'DEFAULTS)
                                                   TK.DEFAULTSSEL)
                                                  ((\SHIFTACTION 'DEFAULTS)
                                                   \TK.SETDEFAULTLOOKS]
                  (COMS
                         ;; NOT NEEDED (TEDITKEY.DLION.KEYSYNTAX (QUOTE (((\ACTION (QUOTE NEXT)) NEXT) ((\ACTION (QUOTE
                           UNDO)) ((\ACTION (QUOTE BS)) CHARDELETE))))
                  [TEDITKEY.DORADO.KEYACTIONS '((BS (%, (CHARCODE ^H)
                                                                 (CHARCODE ^H)))
                                                                            (CHARCODE %##^A)
                                                       (BLANK-BOTTOM (%,
                                                                             (CHARCODE %##^A)))
                                                       (BLANK-TOP FONTDOWN . FONTUP)
                                                       (BLANK-MIDDLE USERMODE1DOWN . USERMODE1UP)
                                                       (CENTER (2,101 2,141 NOLOCKSHIFT))
                                                       (BOLD (2,102 2,142 NOLOCKSHIFT))
                                                       (ITALICS (2,103 2,143 NOLOCKSHIFT))
                                                       (UNDERLINE (2,106 2,146 NOLOCKSHIFT))
                                                       (SUPERSCRIPT (2,113 2,153 NOLOCKSHIFT))
                                                       (SUBSCRIPT (2,114 2,154 NOLOCKSHIFT))
                                                       (LARGER (2,110 2,150 NOLOCKSHIFT))
                                                       (DEFAULTS (2,115 2,155 NOLOCKSHIFT]
                  (TEDITKEY.DORADO.KEYSYNTAX '(((CHARCODE %##N)
                                                       NEXT)
                                                      ((CHARCODE %##n)
                                                       NEXT)
                                                      ((\ACTION 'BLANK-BOTTOM)
                                                       UNDO)
                                                      ((\ACTION 'BS)
                                                       CHARDELETE]
          (P (TEDITKEY.INSTALL))
             (\TK.BUILD.MENU))
          (DECLARE%: DONTEVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILERVARS (ADDVARS (NLAMA)
                                                                                              (NLAML)
                                                                                              (LAMA METASHIFT])
::: This is the Lyric-and-later version of TEditKey
;; functions for affecting the selection
(DEFINEQ
(NTHCAR
  [LAMBDA (LIST N)
                                                                              (* gbn "10-Oct-85 20:54")
     (CAR (NTH LIST N])
(\TEXTOBJ.WINDEX
                                                                              (* gbn "10-Oct-85 20:51")
  [LAMBDA (TEXTOBJ)
             * * returns the number which is the position in the list textobj%:\window indicating which window had the last selection in it.
            This number is then an index into line descriptor lists etc.)
     (bind (CURW
                     (fetch SELWINDOW of TEXTOBJ)) for J from 1 as W in (fetch \WINDOW of TEXTOBJ)
        until (EQ W CURW) do NIL finally (RETURN J])
(\TK.PREVSCREEN
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                                gbn "10-Oct-85 00:10")
                                                                                moves the selection up one line)
     (PROG (THIS PREV)
                                                                                get the selection on the screen so that it has a line descriptor)
            (TEDIT.NORMALIZECARET STREAM SEL)
            (if [SETQ THIS (CAR (MKLIST (fetch L1 of SEL]
                 then
                                                                              (* empty docs have no line descriptors)
                       (SETQ PREV (fetch PREVLINE of THIS))
                       [if (ZEROP (fetch CHARLIM of PREV))
                           then
                                                                              (* we need to back format because this is a fake line descriptor)
                                 (\BACKFORMAT (CAR (fetch LINES of TEXTOBJ))
                                         TEXTOBJ
                                          (fetch SELWINDOW of TEXTOBJ))
                                                                              (* (SETQ PREV (replace PREVLINE of THIS with
                                 (SETQ PREV (fetch PREVLINE of THIS))
```

SEL])

```
(\FORMATLINE TEXTOBJ NIL (ADD1
                                                                           (fetch CHARLIM of THIS))))))1
                     (TEDIT.NORMALIZECARET STREAM (TEDIT.SETSEL STREAM (IMIN (IPLUS (fetch CHAR1 of PREV)
                                                                                               (IDIFFERENCE (\SEL.LIMIT SEL)
                                                                                                       (fetch CHAR1
                                                                                                          of THIS)))
                                                                                       (fetch CHARLIM of PREV))
                                                               01)
(\TK.UNDERLINE.SEL.ON
                                                                           (* gbn "19-Mar-85 12:01")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
    (COND
        ((SHIFTDOWNP 'FONT)
        (\TK.FONT4 TEXTSTREAM TEXTOBJ SEL))
((SHIFTDOWNP 'USERMODE1)
         (\TK.UNDERLINE.CARET.ON TEXTSTREAM TEXTOBJ SEL))
           (* do the real function of \tk.underlineon which happens when neither Keyboard nor font is held)
           (TEDIT.LOOKS TEXTSTREAM ' (UNDERLINE ON)
(\TK.UNDERLINE.SEL.OFF
                                                                           (* gbn "19-Mar-85 12:01")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT4 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
         (\TK.UNDERLINE.CARET.OFF TEXTSTREAM TEXTOBJ SEL))
        (T
           (* do the real function of \tk.underlineon which happens when neither Keyboard nor font is held)
           (TEDIT.LOOKS TEXTSTREAM '(UNDERLINE OFF)
                   SEL1)
(\TK.BOLD.SEL.ON
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                           (* gbn "19-Mar-85 12:01")
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT2 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                           (* do the caret looks case)
         (\TK.BOLD.CARET.ON TEXTSTREAM TEXTOBJ SEL))
        (T
           (* do the real function of \tk.boldon which happens when neither Keyboard nor font is held)
                                                                           (* acts on the selection)
           (TEDIT.LOOKS TEXTSTREAM ' (WEIGHT BOLD)
                   SEL])
(\TK.BOLD.SEL.OFF
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL CHARCODE)
                                                                           (* gbn "19-Mar-85 12:02")
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT2 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                           (* do the caret looks case)
         (\TK.BOLD.CARET.OFF TEXTSTREAM TEXTOBJ SEL))
           (* do the real function of \tk.boldon which happens when neither Keyboard nor font is held)
                                                                           (* acts on the selection)
           (TEDIT.LOOKS TEXTSTREAM '(WEIGHT MEDIUM)
                   SEL])
(\TK.ITALIC.SEL.ON
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                           (* gbn "19-Mar-85 12:02")
    (COND
        ((SHIFTDOWNP 'FONT)
        (\TK.FONT3 TEXTSTREAM TEXTOBJ SEL))
((SHIFTDOWNP 'USERMODE1)
         (\TK.ITALIC.CARET.ON TEXTSTREAM TEXTOBJ SEL))
        (T (TEDIT.LOOKS TEXTSTREAM '(SLOPE ITALIC)
                   SEL1)
(\TK.ITALIC.SEL.OFF
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL CHARCODE)
                                                                           (* gbn "19-Mar-85 12:02")
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT3 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
        (TK.ITALIC.CARET.OFF TEXTSTREAM TEXTOBJ SEL))
(T (TEDIT.LOOKS TEXTSTREAM '(SLOPE REGULAR)
```

```
(\TK.SMALLERSEL
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                         (* gbn "16-Feb-85 21:47")
    (COND
       ((SHIFTDOWNP 'FONT)
         (\TK.FONT7 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                         (* do the caret looks case)
         (\TK.SMALLER.CARET TEXTSTREAM TEXTOBJ SEL))
           (* do the real function of \TK.SUPERSCRIPTSEL which happens when neither Keyboard nor font is held)
                                                                         (* acts on the selection)
           (TEDIT.LOOKS TEXTSTREAM (LIST 'SIZEINCREMENT (IMINUS \TK.SIZEINCREMENT))
                   SEL1)
(\TK.LARGERSEL
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                         (* gbn "16-Feb-85 21:47")
    (COND
       ((SHIFTDOWNP 'FONT)
         (\TK.FONT7 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                         (* do the caret looks case)
         (\TK.LARGER.CARET TEXTSTREAM TEXTOBJ SEL))
        (T
           (* do the real function of \TK.LARGER.SEL which happens when neither Keyboard nor font is held)
                                                                         (* acts on the selection)
           (TEDIT.LOOKS TEXTSTREAM (LIST 'SIZEINCREMENT \TK.SIZEINCREMENT)
                   SEL1)
(\TK.SUPERSCRIPTSEL
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                         (* gbn "16-Feb-85 21:56")
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT5 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                         (* do the caret looks case)
         (\TK.SUPERSCRIPT.CARET TEXTSTREAM TEXTOBJ SEL))
           (* do the real function of \TK.SUPERSCRIPTSEL which happens when neither Keyboard nor font is held)
                                                                         (* acts on the selection)
           (TEDIT.LOOKS TEXTSTREAM (LIST 'OFFSETINCREMENT TEDITKEY.OFFSETINCREMENT)
(\TK.SUBSCRIPTSEL
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                         (* gbn "16-Feb-85 21:42")
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT6 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                         (* do the caret looks case)
         (\TK.SUBSCRIPT.CARET TEXTSTREAM TEXTOBJ SEL))
        (T
           (* do the real function of \TK.SUPERSCRIPTSEL which happens when neither Keyboard nor font is held)
                                                                          (* acts on the selection)
           (TEDIT.LOOKS TEXTSTREAM (LIST 'OFFSETINCREMENT (MINUS TEDITKEY.OFFSETINCREMENT))
                   SEL1)
(\TK.DEFAULTSSEL
                                                                           gbn "16-Feb-85 21:55")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                           acts on the selection)
    (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT8 TEXTSTREAM TEXTOBJ SEL))
        ((SHIFTDOWNP 'USERMODE1)
                                                                         (* do the caret looks case)
         (\TK.DEFAULTS.CARET TEXTSTREAM TEXTOBJ SEL))
        (T
                                                                         (* acts on the selection)
           (PROG ((LOOKS (create CHARLOOKS using TEDIT.DEFAULT.CHARLOOKS)))
                  (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
                  (TEDIT.LOOKS TEXTSTREAM LOOKS SEL])
(\TK.DEL.WORD.FORWARD
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                         (* gbn "20-Mar-85 00:45")
            * Deletes from here to the end of the first word Refers to the syntax classes of the characters according to the
           TEDIT.WORDBOUND.READTABLE)
    (PROG (HERE)
                                                                         (* position the file ptr at the (character after the) caret of the
                                                                         selection)
           (\TK.SETFILEPTR.TO.CARET TEXTSTREAM TEXTOBJ SEL)
                                                                          * record this position as the beginning of the word
                                                                          (to make the beginning of the selection))
                                                                          (* skip the whitespace)
           (SETO HERE
                       (ADD1 (GETFILEPTR TEXTSTREAM)))
                        (NOT (EOFP TEXTSTREAM))
           (while [AND
                        (EQ \TK.WHITESPACE (TEDIT.WORDGET (\PEEKBIN TEXTSTREAM T]
              do (BIN TEXTSTREAM))
           (* find out what syntax class the first letter of the word has. The end of the word is marked by a change of syntax classes)
```

```
(if (NOT (EOFP TEXTSTREAM))
                then (SETQ CLASS (TEDIT.WORDGET (\PEEKBIN TEXTSTREAM T)))
                     (while [AND (NOT (EOFP TEXTSTREAM))
                                  (EQ CLASS (TEDIT.WORDGET (\PEEKBIN TEXTSTREAM T]
                         do (BIN TEXTSTREAM)))
           (TEDIT.SETSEL TEXTSTREAM HERE (ADD1 (IDIFFERENCE (GETFILEPTR TEXTSTREAM)
                                                             HERE))
                   'RIGHT)
            (TEDIT.DELETE TEXTSTREAM)
           (TEDIT.NORMALIZECARET TEXTOBJ])
(\TK.UCASE.SEL
                                                                           (* gbn "20-Mar-85 00:46")
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                          (* uppercasifies the selection)
     (PROG ((STR (TEDIT.SEL.AS.STRING STREAM SEL))
             (POS (fetch CH# of SEL))
             (LEN (fetch DCH of SEL))
           (POINT (fetch POINT of SEL)))
(TEDIT.DELETE STREAM SEL)
           (TEDIT.INSERT STREAM (U-CASE STR))
(TEDIT.SETSEL STREAM POS LEN POINT)
            (TEDIT.NORMALIZECARET TEXTOBJ])
(\TK.CAPITALISE.SEL
                                                                           * gbn "24-Feb-86 16:57"
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                           (* capitalises the selection)
     (PROG ((STR (TEDIT.SEL.AS.STRING STREAM SEL))
             (POS (fetch (SELECTION CH#) of SEL))
             (LEN (fetch (SELECTION DCH) of SEL)
             (POINT (fetch (SELECTION POINT) of SEL)))
            (TEDIT.DELETE STREAM SEL)
            (TEDIT.INSERT STREAM (\CAPITALISE STR))
            (TEDIT.SETSEL STREAM POS LEN POINT)
            (TEDIT.NORMALIZECARET TEXTOBJ])
(\CAPITALISE
                                                                          (* gbn "24-Feb-86 16:56")
  [LAMBDA (STR)
           (* * capitalises a string)
     (SELECTQ (NCHARS STR)
          (0 STR)
          (1 (U-CASE STR))
          (CONCAT (U-CASE (NTHCHAR STR 1))
                  (L-CASE (SUBSTRING STR 2])
(\TK.LCASE.SEL
                                                                            abn "20-Mar-85 00:46")
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                            uppercasifies the selection)
    (PROG ((STR (TEDIT.SEL.AS.STRING STREAM SEL)) (POS (fetch CH# of SEL))
             (LEN (fetch DCH of SEL))
             (POINT (fetch POINT of SEL)))
            (TEDIT.DELETE STREAM SEL)
            (TEDIT.INSERT STREAM (L-CASE STR))
            (TEDIT.SETSEL STREAM POS LEN POINT)
           (TEDIT.NORMALIZECARET TEXTOBJ])
;; functions for affecting the paralooks of the selection
(DEFINEO
(\TK.CENTER.SEL
                                                                          (* gbn "27-Feb-85 18:17")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
     (COND
        ((SHIFTDOWNP 'FONT)
         (\TK.FONT1 TEXTSTREAM TEXTOBJ SEL))
                                                                          (* makes the current paragraph centered)
           (PROG (LOOKS OLDQUAD NEWQUAD NEWQUADS (SAVECH# (fetch Ch'# of SEL))
                           (SAVEDCH (fetch DCH of SEL)))
                   (for PARA in (\PARAS.IN.SEL SEL TEXTOBJ)
                     do (SETQ LOOKS (TEDIT.GET.PARALOOKS TEXTSTREAM PARA))
  (SETQ OLDQUAD (LISTGET LOOKS 'QUAD))
                         [SETQ NEWQUAD (CADR (MEMB OLDQUAD (CONSTANT '(LEFT JUSTIFIED CENTERED LEFT] (LISTPUT LOOKS 'QUAD NEWQUAD)
                          (SETQ PARASEL (TEDIT.SETSEL TEXTSTREAM PARA 1))
                          (TEDIT.PARALOOKS TEXTSTREAM LOOKS PARASEL)
                          (push NEWQUADS NEWQUAD))
                   (TEDIT.SETSEL TEXTSTREAM SAVECH# SAVEDCH)
                   (if TEDITKEY.VERBOSE
```

{MEDLEY} < lispusers > TEDITKEY.; 1 (\TK.CENTER.SEL cont.) then (TEDIT.PROMPTPRINT TEXTSTREAM (DREVERSE NEWQUADS) (\TK.CENTER.SEL.REV [LAMBDA (TEXTSTREAM TEXTOBJ SEL) (* gbn " 7-Jun-85 21:34") ((SHIFTDOWNP 'FONT) (\TK.FONT1 TEXTSTREAM TEXTOBJ SEL)) (T (* * acts like center.sel but cycles in the opposite direction) (PROG (LOOKS OLDOUAD NEWOUAD NEWOUADS (SAVECH# (fetch CH# of SEL)) (SAVEDCH (fetch DCH of SEL))) (for PARA in (\PARAS.IN.SEL SEL TEXTOBJ) do (SETQ LOOKS (TEDIT.GET.PARALOOKS TEXTSTREAM PARA))

(SETQ OLDQUAD (LISTGET LOOKS 'QUAD))

[SETQ NEWQUAD (CADR (MEMB OLDQUAD (CONSTANT '(LEFT CENTERED JUSTIFIED LEFT]

(LISTPUT LOOKS 'QUAD NEWQUAD)

(SETQ PARASEL (TEDIT.SETSEL TEXTSTREAM PARA 1))

(TEDIT.PARALOOKS TEXTSTREAM LOOKS PARASEL) (push NEWQUADS NEWQUAD)) (TEDIT.SETSEL TEXTSTREAM SAVECH# SAVEDCH) (if TEDITKEY.VERBOSE then (TEDIT.PROMPTPRINT TEXTSTREAM (DREVERSE NEWQUADS) T]) **(\TK.NEST** (* gbn "27-Feb-85 18:24") [LAMBDA (TEXTSTREAM TEXTOBJ SEL) (PROG (LOOKS (SAVECH# (fetch CH# of SEL)) (SAVEDCH (fetch DCH of SEL))) (for para in (\paras.in.sel sel textobj) do (setq looks (tedit.get.paralooks textstream para)) (LISTPUT LOOKS 'LEFTMARGIN (IPLUS (LISTGET LOOKS 'LEFTMARGIN) TEDITKEY.NESTWIDTH)) (LISTPUT LOOKS '1STLEFTMARGIN (IPLUS (LISTGET LOOKS '1STLEFTMARGIN) TEDITKEY.NESTWIDTH)) (LISTPUT LOOKS 'RIGHTMARGIN (IMAX 0 (IDIFFERENCE (LISTGET LOOKS 'RIGHTMARGIN) TEDITKEY.NESTWIDTH))) (TEDIT.SETSEL TEXTSTREAM PARA 1) (TEDIT.PARALOOKS TEXTOBJ LOOKS)) (TEDIT.SETSEL TEXTSTREAM SAVECH# SAVEDCH]) (\TK.UNNEST [LAMBDA (TEXTSTREAM TEXTOBJ SEL) (* gbn "27-Feb-85 18:26") (PROG (LOOKS RIGHT (SAVECH# (fetch CH# of SEL)) (SAVEDCH (fetch DCH of SEL))) (for para in (\paras.in.sel sel textobj) do (setq looks (tedit.get.paralooks textstream para)) (LISTPUT LOOKS 'LEFTMARGIN (IMAX (IDIFFERENCE (LISTGET LOOKS 'LEFTMARGIN) TEDITKEY, NESTWIDTH) 0)) (LISTPUT LOOKS '1STLEFTMARGIN (IMAX (IDIFFERENCE (LISTGET LOOKS '1STLEFTMARGIN) TEDITKEY.NESTWIDTH) 0)) (SETQ RIGHT (LISTGET LOOKS 'RIGHTMARGIN)) (if (NOT (ZEROP RIGHT)) then (LISTPUT LOOKS 'RIGHTMARGIN (IPLUS (LISTGET LOOKS 'RIGHTMARGIN) TEDITKEY.NESTWIDTH))) (TEDIT.SETSEL TEXTSTREAM PARA 1) (TEDIT.PARALOOKS TEXTOBJ LOOKS)) (TEDIT.SETSEL TEXTSTREAM SAVECH# SAVEDCH]) ;; functions for affecting (and displaying) the caret character looks (DEFINEO (\TK.SHOWCARETLOOKS (* gbn "30-Jan-85 16:06") [LAMBDA (TEXTSTREAM TEXTOBJ SEL) (* * comment) (PROG ((LOOKS (fetch CARETLOOKS of TEXTOBJ))) (TEDIT.PROMPTPRINT TEXTSTREAM (CONCAT (\TK.DESCRIBEFONT (fetch CLFONT of LOOKS)) (if (AND (fetch CLOFFSET of LOOKS) (NEQ (fetch CLOFFSET of LOOKS) 0))

then (CONCAT " offset " (fetch CLOFFSET of LOOKS))

```
(if (fetch CLOLINE of LOOKS)
    then " overlined"
  else "")
                                                         (if (fetch CLULINE of LOOKS)
                                                             then " underlined"
                                                           else ""))
            (RETURN])
(\TK.BOLD.CARET.ON
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                              (* gbn "16-Feb-85 20:54")
    (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLBOLD of LOOKS with T) (if (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS)
                then (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
                      (if TEDITKEY. VERBOSE
                          then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
                      (RETURN)
              else (RETURN])
(\TK.BOLD.CARET.OFF
                                                                              (* gbn "16-Feb-85 20:54")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
           [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLBOLD of LOOKS with NIL) (if (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS)
    (PROG
                then (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
                      (if TEDITKEY. VERBOSE
                          then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
                      (RETURN)
              else (RETURN])
(\TK.ITALIC.CARET.ON
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                              (* gbn "16-Feb-85 22:20")
    (PROG [ (LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ]
            (replace CLITAL of LOOKS with T)
(if (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS)
                then (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
                      (if TEDITKEY. VERBOS
                           then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
                      (RETURN)
              else (RETURN])
(\TK.ITALIC.CARET.OFF
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                              (* gbn "16-Feb-85 22:19")
    (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLITAL of LOOKS with NIL) (if (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS)
                then (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
                      (if TEDITKEY.VERBOSE
                           then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
                      (RETURN)
              else (RETURN1)
(\TK.UNDERLINE.CARET.ON
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                              (* gbn "16-Feb-85 17:59")
    (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLULINE of LOOKS with T)
            (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
            (if TEDITKEY. VERBOS
                then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
            (RETURN])
(\TK.UNDERLINE.CARET.OFF
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                              (* gbn "16-Feb-85 18:01")
    (PROG [ (LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ]
            (replace CLULINE of LOOKS with NIL)
            (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
            (if TEDITKEY. VERBO
                then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
            (RETURN])
(\TK.SUPERSCRIPT.CARET
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                              (* gbn "16-Feb-85 22:25")
    (PROG [ (LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ]
            (if (fetch CLOFFSET of LOOKS)
                then (add (fetch CLOFFSET of LOOKS)
                            TEDITKEY.OFFSETINCREMENT)
              else (replace CLOFFSET of LOOKS with TEDITKEY.OFFSETINCREMENT))
            (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
            (if TEDITKEY. VERBOSE
```

```
then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
           (RETURN])
(\TK.SUBSCRIPT.CARET
                                                                          (* gbn "16-Feb-85 22:26")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
    (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ]
           (if (fetch CLOFFSET of LOOKS)
               then (add (fetch CLOFFSET of LOOKS)
                           (IMINUS TEDITKEY.OFFSETINCREMENT))
             else (replace CLOFFSET of LOOKS with (IMINUS TEDITKEY.OFFSETINCREMENT)))
           (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
           (if TEDITKEY. VERBOSE
               then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
           (RETURN])
(\TK.SMALLER.CARET
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                          (* gbn "16-Feb-85 21:45")
    (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLSIZE of LOOKS with (IMAX 4 (IDIFFERENCE (fetch CLSIZE of LOOKS)
                                                            2)))
           (if (NOT (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS))
               then (RETURN))
           (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
           (if TEDITKEY.VERBOS)
               then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
           (RETURN])
(\TK.LARGER.CARET
                                                                          (* gbn "16-Feb-85 22:37")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
    (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ)
           (replace CLSIZE of LOOKS with (IPLUS \TK.SIZEINCREMENT (fetch CLSIZE of LOOKS)))
(if (NOT (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS))
               then (RETURN))
           (TEDIT.CARETLOOKS TEXTSTREAM LOOKS)
               then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
(\TK.DEFAULTS.CARET
                                                                          (* gbn "16-Feb-85 21:54")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
    (PROGN (TEDIT.CARETLOOKS TEXTSTREAM (create CHARLOOKS using TEDIT.DEFAULT.CHARLOOKS))
            (if TEDITKEY. VERBOSE
                 then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL])
(\TK.FONT1
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                          (* gbn "27-Jan-85 17:39")
    (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 1])
∆TK.FONT2
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                          (* gbn "27-Jan-85 17:43")
    (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 2])
(\TK.FONT3
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL) (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 3])
                                                                          (* gbn "27-Jan-85 17:40")
(\TK.SETCARETFONT
  [LAMBDA (TEXTOBJ FONTNAME)
                                                                          (* gbn "19-Mar-85 12:02")
           (* temporary hack. If this function is called when the keyboard shift is down, then it refers to the caret looks, otherwise the
    (if (SHIFTDOWNP 'USERMODE1)
         then [PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ]
                     (replace CLNAME of LOOKS with FONTNAME) (if (\TK.SETFONTINLOOKS TEXTOBJ LOOKS)
                                                                          (* we found the font, install it as the caret font and tell the user)
                               (if TEDITKEY.VERBOSE
                                   then (TEDIT.PROMPTPRINT TEXTOBJ FONTNAME T))
                               (RETURN (TEDIT.CARETLOOKS TEXTSTREAM LOOKS]
      else (TEDIT.LOOKS TEXTSTREAM (LIST 'FAMILY FONTNAME)
                   SEL1)
(\TK.FONT4
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                          (* gbn "27-Jan-85 17:40")
    (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 4])
```

```
{MEDLEY}<lispusers>TEDITKEY.;1
(\TK.FONT5
            (TEXTSTREAM TEXTOBJ SEL)
                                                                             (* gbn "27-Jan-85 17:41")
     (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 5])
(\TK.FONT6
           (TEXTSTREAM TEXTOBJ SEL)
                                                                             (* gbn "27-Jan-85 17:41")
     (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 6])
(\TK.FONT7
  [LAMBDA
           (TEXTSTREAM TEXTOBJ SEL)
                                                                             (* gbn "27-Jan-85 17:42")
     (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 7])
(\TK.FONT8
           (TEXTSTREAM TEXTOBJ SEL)
                                                                             (* gbn "27-Jan-85 17:43")
     (\TK.SETCARETFONT TEXTOBJ (CAR (NTH TEDITKEY.FONTS 81)
;; the functions which aren't currently used, which toggle the caret looks
(\TK.BOLDTOGGLE
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                             (* gbn "16-Feb-85 20:54")
            (* * toggles boldness in the caret looks)
     (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLBOLD of LOOKS with (NOT (fetch CLBOLD of LOOKS))) (if (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS)
                then (if TEDITKEY. VERBOSE
                          then (TEDIT.PROMPTPRINT TEXTSTREAM (CONCAT "bold: " (\TK.ONOROFF (fetch CLBOLD of LOOKS)))
                                        T))
                      (RETURN (TEDIT.CARETLOOKS TEXTSTREAM LOOKS))
              else (RETURN])
(\TK.ITALICTOGGLE
                                                                             (* gbn "27-Jan-85 19:23")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
     (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ]
            (replace clital of looks with (Not (fetch clital of looks))) (if (\TK.SETFONTINLOOKS TEXTSTREAM LOOKS)
                then (if TEDITKEY.VERBOSE
                          then (TEDIT.PROMPTPRINT TEXTSTREAM (CONCAT "italic: " (\TK.ONOROFF (fetch CLITAL
                                                                                                              of LOOKS)))
                                        T))
                      (RETURN (TEDIT.CARETLOOKS TEXTSTREAM LOOKS))
              else (RETURN])
(\TK.UNDERLINETOGGLE
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                             (* gbn "27-Jan-85 19:23")
     (PROG [(LOOKS (create CHARLOOKS using (fetch CARETLOOKS of TEXTOBJ] (replace CLULINE of LOOKS with (NOT (fetch CLULINE of LOOKS)))
            (if TEDITKEY.VERBOSE
                then (TEDIT.PROMPTPRINT TEXTSTREAM (CONCAT "underline: " (\TK.ONOROFF (fetch CLULINE of LOOKS)))
                              T))
            (RETURN (TEDIT.CARETLOOKS TEXTSTREAM LOOKS])
;; functions dealing with the default looks
(DEFINEQ
(\TK.SETDEFAULTLOOKS
                                                                             (* gbn "16-Feb-85 23:00")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
            (* * sets TEDIT.DEFAULT.CHARLOOKS to have the looks of the current selection)
            (SETQ TEDIT.DEFAULT.CHARLOOKS (COPY (fetch CARETLOOKS of TEXTOBJ)))
            (if TEDITKEY. VERBOSI
                then (\TK.SHOWCARETLOOKS TEXTSTREAM TEXTOBJ SEL))
            (RETURN])
;; functions for positioning within a document
(DEFINEQ
```

GOTONEXTTTYWINDOW

```
(\TEXTOBJ.WINDEX TEXTOBJ))
                    TEXTOBJ
                    (fetch PTOP of (DSPCLIPPINGREGION NIL
                                                              N NIL (fetch SELWINDOW of TEXTOBJ]

(* (SETQ PREV (replace PREVLINE of THIS with (NFORMATLINE TEXTOBJ NIL (ADD1
           (SETQ PREV (fetch PREVLINE of THIS))
                                                             (fetch CHARLIM of THIS))))))]
(TEDIT.NORMALIZECARET STREAM (TEDIT.SETSEL STREAM (IMIN (IPLUS (fetch CHAR1 of PREV)
                                                                                     (IDIFFERENCE (\SEL.LIMIT SEL)
```

01)

(\TK.GOTODOCBEGIN

(fetch CHARLIM of PREV))

(fetch CHAR1 of THIS)))

(\TK.SETFILEPTR.TO.CARET TEXTSTREAM TEXTOBJ SEL)

(while [AND (NOT (EOFP TEXTSTREAM))

(EQ \TK.WHITESPACE (TEDIT.WORDGET (\PEEKBIN TEXTSTREAM T]

do (BIN TEXTSTREAM))

(* record this position as the beginning of the word (to make the beginning of the selection))

(SETQ HERE (ADD1 (GETFILEPTR TEXTSTREAM)))

(* find out what syntax class the first letter of the word has. The end of the word is marked by a change of syntax classes)

```
(if (NOT (EOFP TEXTSTREAM))
                then (SETQ CLASS (TEDIT.WORDGET (\PEEKBIN TEXTSTREAM T)))
                      (while [AND (NOT (EOFP TEXTSTREAM))
                                   (EQ CLASS (TEDIT.WORDGET (\PEEKBIN TEXTSTREAM T]
                         do (BIN TEXTSTREAM)))
            (TEDIT.SETSEL TEXTSTREAM HERE (ADD1 (IDIFFERENCE (GETFILEPTR TEXTSTREAM)
                                                              HERE))
            (TEDIT.NORMALIZECARET TEXTOBJ])
(\TK.BACK.WORD
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                           (* gbn "20-Mar-85 00:49")
            (* * moves the caret one word back Refers to the syntax classes of the characters according to the
            TEDIT.WORDBOUND.READTABLE)
    (PROG (HERE)
                                                                           (* position the file ptr at the (character after the) caret of the
                                                                           selection)
            (\TK.SETFILEPTR.TO.CARET TEXTSTREAM TEXTOBJ SEL)
                                                                           (* skip the whitespace)
            (while [AND (NOT (ZEROP (GETFILEPTR TEXTSTREAM))) (EQ \TK.WHITESPACE (TEDIT.WORDGET (\BACKPEEKBIN TEXTSTREAM T]
               do (\BACKBIN TEXTSTREAM))
                                                                            (* record this position as the beginning of the word
                                                                           (to make the beginning of the selection))
            (SETQ HERE (GETFILEPTR TEXTSTREAM))
           (* find out what syntax class the last letter of the word has. The end of the word is marked by a change of syntax classes)
            (if (NOT (ZEROP (GETFILEPTR TEXTSTREAM)))
                then
                     (SETQ CLASS (TEDIT.WORDGET (\BACKPEEKBIN TEXTSTREAM T)))
                      (while [AND (NOT (ZEROP (GETFILEPTR TEXTSTREAM)))
                                   (EQ CLASS (TEDIT.WORDGET (\BACKPEEKBIN TEXTSTREAM T]
                         do (\BACKBIN TEXTSTREAM)))
            (TEDIT.SETSEL TEXTSTREAM (ADD1 (GETFILEPTR TEXTSTREAM))
                    (IDIFFERENCE HERE (GETFILEPTR TEXTSTREAM))
            (TEDIT.NORMALIZECARET TEXTOBJ])
(\TK.SELECT.ALL
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                            (* gbn "24-Feb-86 17:11")
                                                                             positions at the end of a document)
     (TEDIT.SETSEL STREAM 0 (ADD1 (fetch TEXTLEN of TEXTOBJ))
;; other utilities
(DEFINEQ
(\TK.FIND
                                                                             gbn "10-Dec-84 12:38")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                             just calls the normal tedit.find starting at the right of the
                                                                           current selection)
     (TEDIT.FULL.FIND TEXTSTREAM])
(\TK.REDISPLAY
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                           (* gbn "12-Mar-85 14:27")
            (* * simply redisplays the window in question.)
    (\TEDIT.REPAINTFN (CAR (MKATOM (fetch \WINDOW of TEXTOBJ])
(\TK.DELLINEFORWARD
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                             abn "13-Dec-84 11:56")
                                                                             deletes from the caret to the end of this line)
     (PROG (HERE DESC)
            (TEDIT.NORMALIZECARET TEXTOBJ)
(SETQ HERE (\SEL.LIMIT.FORWARD SEL))
(SETQ DESC (\SEL.LINEDESC SEL))
            (SETQ SEL (TEDIT.SETSEL STREAM HERE (IDIFFERENCE (fetch CHARLIM of DESC)
                                                              HERE)))
            (TEDIT.DELETE STREAM SEL])
(\TK.OPENLINE
                                                                           (* gbn "30-Jan-85 18:36")
  [LAMBDA (STREAM TEXTOBJ SEL)
     (TEDIT.INSERT STREAM (CONSTANT (CHARCODE EOL)))
     (\TK.PREVCHAR STREAM TEXTOBJ SEL])
(\TK.DELCHARFORWARD
  [LAMBDA (STREAM TEXTOBJ SEL)
                                                                           (* gbn "20-Mar-85 00:50")
```

```
(* * deletes one character forward from the caret)
     (PROG (HERE)
            (SETQ SEL (TEDIT.SETSEL STREAM (\SEL.LIMIT.FORWARD SEL)
                                 1))
            (TEDIT.DELETE STREAM SEL)
            (TEDIT.NORMALIZECARET TEXTOBJ])
(\TK.TRANSPOSECHARS
                                                                               (* gbn "20-Mar-85 00:51")
   [LAMBDA (STREAM TEXTOBJ SEL)
              * transposes the two characters on either side of the point, unless it is the end of a line, in which case it transposes the
            two characters before the point)
     (PROG ((KEEPCHARPOS (\SEL.LIMIT.FORWARD SEL))
             KEEPCHAR LINEDESC)
            (TEDIT.NORMALIZECARET TEXTOBJ SEL)
                                                                               (* get the line that the point of the selection is on)
            (SETQ LINEDESC (SELLINEDESC SEL))
(if (ILESSP (\LINEDESC.LAST.REAL.CHAR LINEDESC)
                        KEEPCHARPOS)
            (* the point is after the last real char on this line, so transpose the two before the point.)
                       (add KEEPCHARPOS -1))
            (SETQ KEEPCHAR (TEDIT.SEL.AS.STRING STREAM (TEDIT.SETSEL STREAM KEEPCHARPOS 1)))
            (if (AND (IGREATERP KEEPCHARPOS 1)
                      (IGEQ (fetch TEXTLEN of TEXTOBJ)
                             KEEPCHARPOS))
                 then (TEDIT.DELETE STREAM)
                       (TEDIT.INSERT STREAM KEEPCHAR (SUB1 KEEPCHARPOS))
                       (TEDIT.SETSEL STREAM KEEPCHARPOS 1 'RIGHT))
            (TEDIT.NORMALIZECARET TEXTOBJ SEL])
)
;; little selection utilities etc., for building hacks
(DEFINEQ
(\SEL.LIMIT
                                                                               (* gbn " 8-Mar-85 12:58")
  [LAMBDA (SEL)
            (* returns the character that delimits this selection. The first char if the point is left else the last)
     (if (EQ (fetch POINT of SEL)
              'LEFT)
         then (fetch CH# of SEL)
       else (SUB1 (fetch CHLIM of SEL])
(\TK.SETFILEPTR.TO.CARET
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
                                                                               (* gbn "23-Feb-85 15:24")
            (* * makes sure that the fileptr is positioned at character on the right of the CARET of the selection)
                                                                               (* NOTE THAT FILEPTR's are one less than the corresponding
    char# in a sel)
     (SETFILEPTR TEXTSTREAM (SUB1 (\SEL.LIMIT.FORWARD SEL])
(\SEL.LINEDESC
                                                                               ; Edited 14-Oct-2023 14:53 by rmk
  [LAMBDA (SEL)
                                                                                Edited 24-Oct-2022 15:24 by rmk
                                                                               (* gbn "10-Oct-85 20:57")
;;; Returns the line descriptor of the point of the selection in the last selected window
     (NTHCAR (if (EQ (fetch (SELECTION POINT) of SEL)
                        'LEFT)
                    then (fetch (SELECTION L1) of SEL)
             else (fetch (SELECTION LN) of SEL))
(\TEXTOBJ.WINDEX (fetch (SELECTION SELTEXTOBJ) of SEL])
(DECLARE%: EVAL@COMPILE
(PUTPROPS \SEL.LIMIT.FORWARD MACRO [LAMBDA (SEL)
                                                                                gbn "13-Dec-84 11:43")
                                                                               * returns the character in front of the caret
                                                                               (ch# for left and chlim for right))
                                               (if (EQ (fetch POINT of SEL)
                                                   then (fetch CH# of SEL)
                                                 else (fetch CHLIM of SEL])
```

```
{MEDLEY} < lispusers > TEDITKEY.; 1
                                                                                                                                                                   Page 15
(PUTPROPS \TK.ONOROFF MACRO [LAMBDA (FLG)
                                                  (if FLG
                                                       then "on"
                                                    else "off"])
(PUTPROPS \LINEDESC.LAST.REAL.CHAR MACRO [LAMBDA (LINEDESC)
                                                                     (if (fetch CR\END of LINEDESC)
                                                                                                    (* there is a CR at the end so the last real char CHLIM-1)
                                                                                   (SUB1 (fetch CHARLIM of LINEDESC))
                                                                       else (fetch CHARLIM of LINEDESC])
;; fns for the key interface itself
(DEFINEO
(\SHIFTACTION
   [LAMBDA (KEYNAME)
                                                                                                      gbn "16-Feb-85 16:55")
                                                                                                     * returns the character code generated by this keyname when
                                                                                                    typed shifted)
      (CADAR (KEYACTION KEYNAME])
(\ACTION
                                                                                                    (* gbn "16-Feb-85 16:54")
(* RETURNS THE CHARACTER CODE GENERATED BY THIS
   [LAMBDA (KEYNAME)
      KEYNAME WHEN TYPED UNSHIFTED)
      (CAAR (KEYACTION KEYNAME])
(TEDITKEY.INSTALL
                                                                                                    (* gbn " 1-Apr-86 22:36")
   [LAMBDA (READTABLE)
                (* * installs the TEDITKEYBINDINGS on the readtable)
      (PROG [(READTABLE (OR READTABLE TEDIT.READTABLE))
                INTERRUPT
                 (FNKEYITEM '(Function% Keys 'BUILDFNKEYS "Bring up the DLion fn keys window"]
               (* I think that in Koto, all this is done by the system. The times, they are a-changin'! (PROGN (* Tell everyone who cares to let ^h be the backspace character) (if (SETQ INTERRUPT (GETINTERRUPT (CHARCODE ^H))) then (printout T "Interrupt on ^H disabled") (SETINTERRUPT (CHARCODE ^H) (QUOTE NIL))) (SETSYNTAX 8 (QUOTE CHARDELETE) \PROMPTFORWORDTTBL) (SETSYNTAX 8 (QUOTE CHARDELETE) ASKUSERTTBL) (SETSYNTAX 8 (QUOTE CHARDELETE) \PRIMTERMTABLE) (SETSYNTAX 8 (QUOTE CHARDELETE) DEDITTTBL) (SETINTERRUPT (CHARCODE ^G) (QUOTE CHARDELETE) DEDITTTBL)
                (QUOTE HELP))))
                                                                                                    (* TEditKey redefines METASHIFT to operate on TEDITKEY.METAKEY instead of the swat
                (METASHIFT I)
                                                                                                    (bottom-blank) key)
                                                                                                     * install the functions on the main keyboard, that is, not the
                                                                                                    extra dlion keys)
                [for TRIPLE in TEDITKEY.KEYBINDINGS
                    do (COND
                                                                                                    (* NILs in the list are for formatting the menu)
                                        (for key in (Cadr Triple) do (Apply* 'Tedit.Setfunction (EVAL '(CHARCODE %, KEY))
                                                                                              (CAR TRIPLE)
                                                                                              READTABLE]
                                                                                                    (* the function keys are set up by default
(MODIFY.KEYACTIONS TEDITKEY.FNKEYACTIONS))
                                                                                                    (* install the nextttywindow hack)
                (PROGN
                                                                                                    (* INTERRUPTCHAR (ISHIFTACTION
(QUOTE NEXT)) (QUOTE (GOTONEXTTTYWINDOW)))
                                                                                                      So that non-tédits know about the game)
                (SELECTO (MACHINETYPE)
                       (DANDELION [if TEDITKEY.LOCKTOGGLEKEY
                                       then (KEYACTION TEDITKEY.LOCKTOGGLEKEY '(LOCKTOGGLE] (if (AND (BOUNDP 'DLIONFNKEYS)
                                                    (OPENWP DLIONFNKEYS))
                                                                                                      this machine has real fn keys so close the fake ones)
                                             then
                                                     (CLOSEW DLIONFNKEYS))
                                                                                                     * adjust so that the dlion extra keys return meta control codes)
                                        (MODIFY.KEYACTIONS TEDITKEY.DLION.KEYACTIONS)
                                        (for pair in teditkey.dlion.keybindings do (tedit.setfunction (eval (car pair))
                                                                                                                    (CADR PAIR)
                                                                                                                   READTABLE)
                                                                                                    (* hang functions off the dlion extra keys
                                                                                                    (e.g. italics, bold))
                                        (for PAIR in TEDITKEY.FNKEYBINDINGS do (TEDIT.SETFUNCTION (EVAL (CAR PAIR))
                                                                                                             (CADR PAIR)
                                                                                                             READTABLE))
                                                                                                    (* set next to do next, undo to do undo etc)
                                                                                                      unnecessary in KOTO (for PAIR in
```

TEDITKEY.DLION.KEYSYNTAX do

```
(TEDIT.SETSYNTAX (EVAL (CAR PAIR))
                                                                           (CADR PAIR) READTABLE)))
                                                                             remove the menu item that may have already been installed)
                                                                             you can remove non-existent items with impunity)
                             (TEDIT.REMOVE.MENUITEM TEDIT.DEFAULT.MENU FNKEYITEM)
                                                                           (* install the nextttywindow hack)
                              (PROGN
                                      (INTERRUPTCHAR (\SHIFTACTION 'NEXT)
                                              ' (GOTONEXTTTYWINDOW) ) (* So that non-tedits know about the game)
                (PROGN (MODIFY.KEYACTIONS TEDITKEY.DORADO.KEYACTIONS)
                         (for pair in teditkey.Dorado.Keysyntax do (tedit.Setsyntax (eval (car pair))
                                                                                 (CADR PAIR)
                                                                                READTABLE))
                         (for PAIR in TEDITKEY.FNKEYBINDINGS do (TEDIT.SETFUNCTION (EVAL (CAR PAIR))
                                                                             (CADR PAIR)
                                                                             READTABLE))
                         (TEDIT.ADD.MENUITEM TEDIT.DEFAULT.MENU FNKEYITEM)))
           (SELECTQ (MACHINETYPE)
                                                                           (* bring up the fake function keys)
                 ((DORADO DOLPHIN)
                      (FILESLOAD (SYSLOAD FROM VALUEOF LISPUSERSDIRECTORIES)
                              DLIONFNKEYS)
                      (COND
                         ([AND TEDITKEY.FNKEYFLG (NOT (AND (BOUNDP 'DLIONFNKEYS)
                                                                 (OPENWP DLIONFNKEYS]
           (* if he has the flag set to do so, then check if there is a fnkey window up yet, and build one if there isn't)
                           (BUILDFNKEYS))))
                 (PROGN NIL))
           (* install the forms necessary to re-establish the correct bindings on a new machine if this is sysout'ed)
                                                                           (* if (NOT (ASSOC (QUOTE TEDITKEY.INSTALL)
AFTERMAKESYSFORMS)) then
(push AFTERMAKESYSFORMS
                                                                           (QUOTE (TEDITKEY.INSTALL))))
           [COND
               ((NOT (ASSOC 'TEDITKEY.INSTALL AFTERSYSOUTFORMS))
                (push AFTERSYSOUTFORMS '(TEDITKEY.INSTALL)
           (RETURN (CONCAT TEDITKEY.METAKEY "'s action is now Meta. TEditKey actions and key bindings installed.
                            Type #? or press the HELP key to see keybindings"])
(TEDITKEY.DEINSTALL
  [LAMBDA (ARGS | ... |)
(MODIFY.KEYACTIONS \ORIGKEYACTIONS)
                                                                           (* gbn "10-Oct-85 00:04")
    (SELECTQ (MACHINETYPE)
          (DANDELION (MODIFY.KEYACTIONS \DLIONKEYACTIONS))
          (PROGN NIL1)
(\TK.ACTIONTOCHARCODE
  [LAMBDA (FN)
                                                                           (* gbn "23-Feb-85 17:17")
            (*) takes the name of the function and looks in TEDITKEY.KEYBINDINGS to find out which CHARCODE generates that
    (PROG ((PAIR (ASSOC FN TEDITKEY.KEYBINDINGS)))
           (RETURN (if PAIR
                         then [EVAL '(CHARCODE %, (CAADR PAIR]
                       else NIL1)
(\TK.BUILD.MENU
                                                                             gbn "23-Feb-85 17:17")
  [LAMBDA (KEYBINDINGS)
                                                                             builds a menu to display the key bindings)
    (PROG (ITEMS)
           [for TRIPLE in TEDITKEY.KEYBINDINGS do (COND
                                                           (TRIPLE (push ITEMS (LIST (CADDR TRIPLE)
                                                                                           (QUOTE %, TRIPLE)
                                                                                          "Function which is performed by the
                                                                    key(s) to the right of the mouse")) (push ITEMS (LIST (for DESC in (CADR TRIPLE)
                                                                                            collect (CHARDESC DESC))
                                                                                        NIL)))
                                                                           (* insert a space since NIL marks logical divisions in the list)
                                                               (push ITEMS '("" NIL ""))
(push ITEMS '("" NIL ""]
           (SETO \TK.MENU (create MENU
                                              (DREVERSE ITEMS)
                                     ITEMS
                                     MENUCOLUMNS _ 2
                                     CENTERFLG _
                                     MENUFONT _ (FONTCREATE 'HELVETICA 10])
(\TK.HELP
  [LAMBDA (WHATEVER)
                                                                             gbn " 5-Nov-84 18:17")
                                                                            * brings up a menu of the available key bindings)
```

```
(MENU \TK.MENU])
(\TK.SETFONTINLOOKS
                                                                           (* gbn "11-Oct-85 07:12")
  [LAMBDA (TEXTSTREAM LOOKS)
           (* * rebuilds the font field of looks according to the values in the fields)
           (SETQ NEWFONT (FONTCREATE (OR (fetch CLNAME of LOOKS)
                                               (FONTPROP (fetch CLFONT of LOOKS)
                                                      'FAMILY))
                                    (fetch CLSIZE of LOOKS)
                                    (LIST (if (fetch CLBOLD of LOOKS)
then 'BOLD
                                             else 'MEDIUM)
                                           (if (fetch CLITAL of LOOKS)
                                               then 'ITALIC
                                             else 'REGULAR)
                                           'REGULAR)
                                    NIL NIL T))
           (if (CAR NEWFONT)
                                                                           (* we got the font, so now replace it)
               then
                     (RETURN (replace CLFONT of LOOKS with NEWFONT))
                                                                            (* we lost, print a msg and return NIL so that the caller knows.)
             else
                   (TEDIT.PROMPTPRINT TEXTSTREAM (CONCAT "Font not found:
                                                              (CONCAT [L-CASE (OR (fetch CLNAME of LOOKS)
                                                                                      (FONTPROP (fetch CLFONT of LOOKS)
                                                                                             'FAMILY]
                                                                      (fetch CLSIZE of LOOKS)
                                                                      (if (fetch CLBOLD of LOOKS) then 'BOLD " bold"
                                                                        else "")
                                                                      (if (fetch CLITAL of LOOKS) then " italic"
                                                                        else "")))
                   (RETURN NIL])
(WRITE.CHARDESC.AUX
                                                                           (* gbn "10-Oct-85 00:20")
  [LAMBDA (TOKENS)
        ((EQ (LENGTH TOKENS)
             1)
         (CONS (CAR TOKENS)
               NIL))
        (T (SELECTQ (CAR TOKENS) (%# [CONS "meta " (WRITE.CHARDESC.AUX (COND
                                                                  ((AND (CDR TOKENS)
                                                                         (EQ (CADR TOKENS)
                                                                    (CDDR TOKENS])
                   (CONS "control " (WRITE.CHARDESC.AUX (CDR TOKENS))))
                 (ERROR CHARDESC " is a misunderstood character descriptor"])
(CHARDESC
  [LAMBDA (CHARDESC)
                                                                           (* gbn " 7-Nov-84 14:21")
           (* takes a description in the form taken as input to charcode and writes out a human readable form)
    (PACK (WRITE.CHARDESC.AUX (UNPACK CHARDESC])
(TEDITKEY.CONFIGURE
  [LAMBDA NIL
                                                                           (* gbn " 5-Nov-84 18:58")
    (PROMPTPRINT "not implemented"])
(\TK.ADDKEY
  [LAMBDA (TRIPLE)
                                                                             gbn " 5-Nov-84 18:41")
                                                                             dummy for now)
(\TK.CHANGEKEY
                                                                           (* gbn " 5-Nov-84 18:42")
(* DUMMY)
  [LAMBDA (THIS)
    1)
(\TK.APPLYPENDING
                                                                           (* gbn "10-Dec-84 15:58")
  [LAMBDA (TEXTSTREAM TEXTOBJ SEL)
           (* * takes the entries on \TK.PENDING, reverses them and applies them as incremental changes to the selection.)
```

```
(PROG ((PENDING (DREVERSE \TK.PENDING))
             (LOOKS (LIST NIL)))
            (for entry in pending do (selecto entry
                                             (BOLDON (LISTPUT LOOKS 'WEIGHT 'BOLD))
                                             (BOLDOFF (LISTPUT LOOKS 'WEIGHT 'MEDIUM))
                                             (ITALICON (LISTPUT LOOKS 'SLOPE 'ITALIC))
                                             (ITALICOFF (LISTPUT LOOKS 'SLOPE 'REGULAR))
                                             (UNDERLINEON (LISTPUT LOOKS 'UNDERLINE 'ON))
                                             (UNDERLINEOFF (LISTPUT LOOKS 'UNDERLINE 'OFF))
                                                                           (* nothing for the moment)
                                             (SUPERSCRIPT
                                                           NIL)
                                             (SUBSCRIPT
                                                                           (* nothing for the moment)
                                                         NIL)
                                                                           (* nothing for the moment)
                                             (LARGER
                                                     NIL)
                                                                           (* nothing for the moment)
                                             (SMALLER
                                                       NIL)
                                             (DEFAULTS (SETQ LOOKS (\TEDIT.UNPARSE.CHARLOOKS.LIST
                                                                              TEDIT.DEFAULT.CHARLOOKS))
                                             ((TIMESROMAN HELVETICA GACHA MODERN CLASSIC TERMINAL HIPPO MATH)
                                             (LISTPUT LOOKS 'FAMILY ENTRY))
(\LISPERROR "Illegal pending operation in \TK.PENDING" ENTRY)))
            (SETO \TK.PENDING NIL)
            (RETURN (TEDIT.LOOKS TEXTSTREAM LOOKS SEL])
(\TK.NTHFONT
                                                                             gbn "27-Jan-85 17:51")
  [LAMBDA (N)
                                                                             returns the name of the nth teditkey font)
     (CAR (NTH TEDITKEY.FONTS N])
;; redefinition of system junk
(DEFINEO
(METASHIFT
                                                                           (* gbn " 6-Mar-85 15:43")
  [LAMBDA FLG
             Sets interpretation of TEDITKEY.METAKEY key to first arg, where T means meta-shift, NIL means original setting.
            Returns previous setting)
     (PROG ((METASTATUS '(METADOWN . METAUP))
            OLDSETTING)
            [SETQ OLDSETTING (KEYACTION TEDITKEY.METAKEY (AND (IGREATERP FLG 0)
                                                                      (COND
                                                                          ((EQ (ARG FLG 1)
                                                                               T)
                                                                          METASTATUS)
                                                                          (T (OR (ARG FLG 1)
                                                                                  (CDR (ASSOC TEDITKEY.METAKEY
                                                                                                \ORIGKEYACTIONS]
            (RETURN (COND
                        ((EQUAL OLDSETTING METASTATUS)
                        (T OLDSETTING])
)
;; (\TK.BOLDTOGGLE (##H ##h) 'toggle Bold caret looks') (\TK.ITALICTOGGLE (##i ##l) 'toggle Italic caret looks') (\TK.SUPERSCRIPT.CARET (##^) ;; 'Superscript the caret looks') (\TK.SUBSCRIPT.CARET (##_) 'Subscript the caret looks')
(DEFINEQ
(TEDIT.FULL.FIND
  [LAMBDA (TEXTSTREAM SEARCHSTRING)
                                                                           (* gbn " 8-Mar-85 12:56")
     (PROG (TARGET (TEXTOBJ (TEXTOBJ TEXTSTREAM))
                   SEL CH W)
                                                                           (* Case sensitive search, with * and %# wildcards)
            [SETQ W (CAR (MKLIST (fetch \WINDOW of TEXTOBJ]
           [SETQ TARGET (OR SEARCHSTRING (TEDIT.GETINPUT TEXTOBJ "Text to find: " (WINDOWPROP W
                                                                                                       'TEDIT.LAST.FIND.STRING)
                                                       (CHARCODE (EOL LF ESC]
           [COND
               (TARGET (SETQ SEL (fetch SEL of TEXTOBJ))
                       (\SHOWSEL SEL NIL NIL)
                       (TEDIT.PROMPTPRINT TEXTOBJ "Searching..." T)
                       (SETQ CH (TEDIT.FIND TEXTOBJ (MKSTRING TARGET)
                                         NIL NIL T))
                       (COND
                                                                           (* We found the target text.)
                           (CH
                                (TEDIT.PROMPTPRINT TEXTOBJ "Done.")
                                (replace CH# of SEL with (CAR CH))
                                                                           (* Set up SELECTION to be the found text)
                                (replace CHLIM of SEL with (ADD1 (CADR CH)))
                                [replace DCH of SEL with (ADD1 (IDIFFERENCE (CADR CH)
```

```
(CAR CH]
                            (replace POINT of SEL with 'RIGHT)
                            (replace CARETLOOKS of TEXTOBJ with (\TEDIT.GET.INSERT.CHARLOOKS TEXTOBJ SEL))
                            (TEDIT.RESET.EXTEND.PENDING.DELETE SEL)
                                                                   (* And never pending a deletion.)
                            (\FIXSEL SEL TEXTOBJ)
                            (TEDIT.NORMALIZECARET TEXTOBJ)
                            (\SHOWSEL SEL NIL T)
                            (WINDOWPROP W 'TEDIT.LAST.FIND.STRING TARGET)
                                                                   (* And get it into the window)
                          (TEDIT.PROMPTPRINT TEXTOBJ "(not found)")
                           (\SHOWSEL SEL NIL T)
          (replace \INSERTNEXTCH of TEXTOBJ with -1])
)
(RPAQO \TK.WHITESPACE 22)
(RPAQ TEDIT.INTERRUPTS '((%, (CHARCODE ^G)
                             ERROR)
                          (%, (CHARCODE ^C)
                              HELP)))
(DECLARE%: EVAL@COMPILE
(RPAQQ \TK.WHITESPACE 22)
(CONSTANTS (\TK.WHITESPACE 22))
(RPAQ? TEDITKEY.VERBOSE T)
(RPAQ? TEDITKEY.METAKEY 'TAB)
(RPAQ? TEDITKEY.LOCKTOGGLEKEY NIL)
(RPAQ? TEDITKEY.NESTWIDTH 36)
(RPAQ? \TK.SIZEINCREMENT 2)
(RPAQ? TEDITKEY.OFFSETINCREMENT 3)
(RPAQ? TEDITKEY.FONTS '(TIMESROMAN HELVETICA GACHA MODERN CLASSIC TERMINAL SYMBOL HIPPO))
(RPAQ? TEDITKEY.FNKEYFLG T)
(DECLARE%: EVAL@COMPILE
(PUTPROPS METACODE MACRO [LAMBDA (CHARCODE)
                               (LOGOR CHARCODE 1281)
(PUTPROPS CONTROLCODE MACRO [LAMBDA (CHARCODE)
                                   (LOGAND CHARCODE 31])
(PUTPROPS LCMETACODE MACRO [LAMBDA (CHARCODE)
                                 (LOGOR 160 CHARCODE])
(RPAQ? \TK.SELKEY 'OPEN)
(RPAQ? \TK.PENDING )
(RPAQ? TEDITKEY.KEYBINDINGS
       `((\TK.FONT1 (%##1)
                (CONCAT "change to font " (\TK.NTHFONT 1)))
         (\TK.FONT2 (%##2)
                (CONCAT "change to font " (\TK.NTHFONT 2)))
         (\TK.FONT3 (%##3)
                (CONCAT "change to font " (\TK.NTHFONT 3)))
         (\TK.FONT4 (%##4)
                (CONCAT "change to font " (\TK.NTHFONT 4)))
         (\TK.FONT5 (%##5)
                (CONCAT "change to font " (\TK.NTHFONT 5)))
         (\TK.FONT6 (%##6)
                용,
                (CONCAT "change to font " (\TK.NTHFONT 6)))
         (\TK.FONT7 (%##7)
                (CONCAT "change to font " (\TK.NTHFONT 7)))
         (\TK.FONT8 (%##8)
                용,
```

\TK.OPENLINE)

```
(CONCAT "change to font " (\TK.NTHFONT 8)))
            NIL
            (\TK.DEFAULTS.CARET (%##/)
                      "restore the default caret looks")
            (\TK.SMALLER.CARET (%##9)
                      "decrease the caret font size")
            (\TK.LARGER.CARET (%##0)
                      "increase the caret font size")
            (\TK.SHOWCARETLOOKS (%##=)
                      "display the current caret looks")
            (\TK.REDISPLAY (%##R %##r)
                      "Restore the display")
            (\TK.HELP (%##?)
                      "displays the current key bindings")
            NIL
            (\TK.PREVCHAR (^B ^b)
                      "Back one character")
            (\TK.NEXTCHAR (^F ^f)
"Forward one character")
            (\TK.FORWARD.WORD (%##F %##f)
            "Forward one word") (\TK.BACK.WORD (%##B %##b)
                      "Back one word")
            (\TK.GOTOLINEBEGIN (^A ^a)

"go to stArt of line")
            (\TK.GOTOLINEEND (^E ^e)
            "go to End of line")
(\TK.PREVLINE (^P ^p)
                      "go to Previous line")
            (\TK.NEXTLINE (^N ^n)
                      "go to Next line")
            (\TK.GOTODOCBEGIN (%##<)
                     "start of document")
            (\TK.GOTODOCEND (%##>)
                      "end of document")
            (\TK.SELECT.ALL (%##S %##s)
                      "Select whole document")
            (\TK.DELLINEFORWARD (^K ^k)
                      "Kill line")
            (\TK.OPENLINE (^O ^o)
                      "Open up blank line")
            (\TK.DELCHARFORWARD (^D ^d)
                      "Delete character forward")
            (\TK.DEL.WORD.FORWARD (%##D %##d)
            "Delete word forward")
(\TK.TRANSPOSECHARS (^T ^t)
           "Transpose characters")
NIL NIL (\TK.NEST (|##[|)
                                 "indents margins (nest)")
            (\TK.UNNEST (|##]|)
            "exdents margins (unnest)")
(\TK.CENTER.SEL (%##J %##j)
                      "alter Justification")
            (\TK.UCASE.SEL (%##U %##u)
                      "Uppercasify selection")
            (\TK.CAPITALISE.SEL (%##C %##c)
"Capitalize selection")
            (\TK.LCASE.SEL (%##L %##1)
            "Lowercasify selection")
(GET.OBJ.FROM.USER (%##0 %##0)
"insert Object")))
(RPAQ? TEDITKEY.DLION.KEYACTIONS
          ((STOP (%, (CHARCODE ^G)
                          (CHARCODE ^C)
                          NOLOCKSHIFT))
            (OPEN (%, (CHARCODE 2,1)
                          (CHARCODE 2,41)
                          NOLOCKSHIFT))
            (FONT FONTDOWN . FONTUP)
            (KEYBOARD USERMODE1DOWN . USERMODE1UP)))
                 ;; (TEDITKEY.FNKEYACTIONS (BQUOTE ((CENTER (, (CHARCODE ##^B), (CHARCODE ##^C))) (BOLD (, (CHARCODE ##^D), ;; (CHARCODE ##^F), NOLOCKSHIFT)) (ITALICS (, (CHARCODE ##^F), (CHARCODE ##^G), NOLOCKSHIFT)) (UNDERLINE (, ;; (CHARCODE ##^H), (CHARCODE ##^I), NOLOCKSHIFT)) (SUBSCRIPT (, (CHARCODE ##^L), (CHARCODE ##^N), NOLOCKSHIFT)) (LARGER (, (CHARCODE ##^O), ;; (CHARCODE ##^P), NOLOCKSHIFT)) (DEFAULTS (, (CHARCODE ##^Q), (CHARCODE ##^R), NOLOCKSHIFT)) (BS (, ;; (CHARCODE ^D), NOLOCKSHIFT)))))
(RPAO? COMS
(RPAQ? TEDITKEY.DLION.KEYBINDINGS
           (((\ACTION 'OPEN)
```

(ADDTOVAR **NLAMA**)

(ADDTOVAR **NLAML**)

(ADDTOVAR LAMA METASHIFT)

(PUTPROPS TEDITKEY COPYRIGHT ("Xerox Corporation" 1985 1986 1987))

{MEDLEY}<lispusers>TEDITKEY.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:00 --

FUNCTION INDEX

GOTONEXTTTYWINDOW 10 \TMETASHIFT 18 \TMINTCAR 3 \TMINTCAR 3 \TMINTCAR 3 \TMINTCAR 18 \TMINTCAR 18 \TMINTCAR 18 \TMINTCAR 18 \TMINTCAR 17 \TMINTCAR 17 \TMINTCAR 17 \TMINTCAR 16 \TMINTCAR 17 \TMINTCAR 16 \TMINTCAR 17 \TMINTCAR 18 \TMINTCAR 1	TK.BOLD.SEL.ON	\TK.GOTODOCBEGIN \TK.GOTODOCBEGIN \TK.GOTODOCEND \TK.GOTOLINEBEGIN \TK.GOTOLINEBEGIN \TK.GOTOLINEEND \TK.HELP \TK.ITALIC.CARET.OFF \TK.ITALIC.SEL.OFF \TK.ITALIC.SEL.ON \TK.ITALIC.SEL.ON \TK.ITALICTOGGLE \TK.LARGER.CARET \TK.LARGERSEL \TK.LARGERSEL \TK.NEST \TK.NEXTCHAR \TK.NEXTCHAR \TK.NEXTCHAR \TK.NTHFONT \TK.OPENLINE \TK.PREVCHAR \TK.PREVCHAR \TK.PREVSCREEN \TK.REDISPLAY	12 \TK.SETCARETFONT 9 12 \TK.SETDEFAULTLOOKS 10 12 \TK.SETTILEPTR.TO.CARET 14 16 \TK.SETFILEPTR.TO.CARET 17 8 \TK.SHOWCARETLOOKS 17 8 \TK.SHOWCARETLOOKS 7 8 \TK.SHOWCARETLOOKS 7 8 \TK.SMALLER.CARET 9 4 \TK.SWALLER.CARET 9 4 \TK.SUBSCRIPT.CARET 9 10 \TK.SUBSCRIPT.CARET 9 10 \TK.SUBSCRIPTSEL 5 5 \TK.SUPERSCRIPTSEL 5 6 \TK.TRANSPOSECHARS 14 7 \TK.UCASE.SEL 6 12 \TK.UNDERLINE.CARET.OFF .8 11 \TK.UNDERLINE.CARET.ON 8 18 \TK.UNDERLINE.SEL.OFF 4 13 \TK.UNDERLINE.SEL.OFF 4 13 \TK.UNDERLINE.SEL.ON 4 12 \TK.UNDERLINETOGGLE 10 11 \TK.UNNEST 7 3
VARIABLE INDEX			
COMS 2 TEDIT.INTERRUPTS TEDITKEY.DLION.KEYACTIONS TEDITKEY.DLION.KEYBINDINGS TEDITKEY.DORADO.KEYBCTIONS TEDITKEY.DORADO.KEYSYNTAX	19 TEDITKEY.FNKEYFLG20 TEDITKEY.FONTS20 TEDITKEY.KEYBINDIN21 TEDITKEY.LOCKTOGGL	1919 GS19 EKEY19	TEDITKEY.NESTWIDTH 19 TEDITKEY.OFFSETINCREMENT 19 TEDITKEY.VERBOSE 19 \TK.PENDING 19 \TK.SELKEY 19 \TK.SIZEINCREMENT 19
MAGDO NIDEY			
MACRO INDEX			
CONTROLCODELCMETACODE			\SEL.LIMIT.FORWARD
CONSTANT INDEX			
\TK.WHITESPACE	19		