

File created: 25-Jan-88 14:27:06 {FireFS:CS:Univ Rochester}<Koomen>LispUsers>Lyric>QEDIT.;9

changes to: (VARS QEDITCOMS)  
(RECORDS QEDITOR QENTRY)  
(FNS QEDIT QEDIT.CURRENT.QUEUE QEDIT.RESET QE-ACQUIRE-EDITOR QE-ADJUST-SCROLL-PARAMS  
QE-BUTTONEVENTFN QE-CLOSEFN QE-CMD-INSERT QE-CMD-EDIT QE-CMD-DELETE QE-CMD-LEFT QE-CMD-RIGHT  
QE-COLLECT-QUEUE QE-COMPUTE-LABEL QE-CREATE-EDITOR QE-CREATE-ENTRIES QE-CREATE-ENTRY  
QE-DISPLAY-ENTRIES QE-DISPLAY-ENTRIES-AUX QE-DISPLAY-ENTRY QE-FOCUS-SELECTION QE-INIT-EDITOR  
QE-MARKASCHANGED QE-MARK-VISIBLE-ENTRIES QE-MAX-INDEX-WIDTH QE-MAX-LABEL-WIDTH  
QE-MOUSE-IN-ENTRY QE-MOUSED-ENTRY QE-PLACE-ENTRIES QE-PROMPTPRINT QE-REDISPLAY-ENTRY  
QE-RELEASE-EDITOR QE-REPAINTFN QE-RESET-DSP QE-RESHAPEFN QE-RUN-EDITOR QE-SCROLLFN  
QE-SELECT-ENTRY QE-SLIDE-ENTRY QE-TOGGLE-ENTRY QE-UNMARKASCHANGED QE-WHENSELECTEDFN  
QE-CMD-ADD)

previous date: 22-Jan-88 15:59:42 {ICE}<KOOMEN>LISPUSERS>KOTO>QEDIT.;9

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

;;  
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(RPAQQ QEDITCOMS

;; Interface

(FNS QEDIT QEDIT.CURRENT.QUEUE QEDIT.RESET)  
[INITVARS (\*QEDITPROPS\* ' (TITLE "Queue Editor" LABELFONT (HELVETICA 8)

;; Implementation

(COMS (DECLARE%: DONTCOPY (RECORDS QEDITOR QENTRY))  
(INITRECORDS QEDITOR QENTRY))  
(FNS QE-ACQUIRE-EDITOR QE-ADJUST-SCROLL-PARAMS QE-BUTTONEVENTFN QE-CLOSEFN QE-CMD-INSERT QE-CMD-EDIT  
QE-CMD-DELETE QE-CMD-LEFT QE-CMD-RIGHT QE-COLLECT-QUEUE QE-COMPUTE-LABEL QE-CREATE-EDITOR  
QE-CREATE-ENTRIES QE-CREATE-ENTRY QE-DISPLAY-ENTRIES QE-DISPLAY-ENTRIES-AUX QE-DISPLAY-ENTRY  
QE-FOCUS-SELECTION QE-INIT-EDITOR QE-MARKASCHANGED QE-MARK-VISIBLE-ENTRIES QE-MAX-INDEX-WIDTH  
QE-MAX-LABEL-WIDTH QE-MOUSE-IN-ENTRY QE-MOUSED-ENTRY QE-PLACE-ENTRIES QE-PROMPTPRINT  
QE-REDISPLAY-ENTRY QE-RELEASE-EDITOR QE-REPAINTFN QE-RESET-DSP QE-RESHAPEFN QE-RUN-EDITOR  
QE-SCROLLFN QE-SELECT-ENTRY QE-SLIDE-ENTRY QE-TOGGLE-ENTRY QE-UNMARKASCHANGED QE-WHENSELECTEDFN)  
(INITVARS (\*QEDITORS\*))  
(GLOBALVARS \*QEDITORS\*)  
(PROP (FILETYPE MAKEFILE-ENVIRONMENT)  
QEDIT)  
(DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS (ADDVARS (NLAMA)  
(NLAML)  
(LAMA QE-PROMPTPRINT]))

;; Interface

(DEFINEQ

(QEDIT

[LAMBDA (QUEUE PROPS)

(\* Koomen "11-Dec-87 14:43")

; Edited 27-Nov-87 14:36 by Koomen

;; Brings up a QEditor for rearranging the elements of QUEUE.

;; PROPS is a proplist customizing this particular editing session. The following props are currently supported:

;; TITLE - a string indicating the window title of the QEditor

;; CONTEXT - a Lisp object given as extra argument to the following functions

;; LABELFN - (labelfn qelt context) returns a label for displaying qelt

;; LABELFONT - a font spec -- defaults to (HELVETICA 8)

;; ADDFN - (addfn context) returns a new queue element

;; EDITFN - (editfn qelt context) returns a (possibly different) queue element

;; DELETEFN - (deletefn qelt context) returns T iff the element can be deleted

;;

;; Default props are taken from the freevar \*QEDITPROPS\*

(LET ((QEDITOR (QE-ACQUIRE-EDITOR)))  
(RESETLST  
[RESETSAVE NIL '(QE-RELEASE-EDITOR ,QEDITOR)  
(QE-RUN-EDITOR (QE-INIT-EDITOR QEDITOR (MKLIST QUEUE)  
(APPEND PROPS \*QEDITPROPS\*)))]))

(QEDIT.CURRENT.QUEUE

[LAMBDA NIL

(\* Koomen "11-Dec-87 16:54")

(DECLARE (SPECVARS QEDITOR))

(if (AND (BOUNDP 'QEDITOR)

(type? QEDITOR QEDITOR))

then (QE-COLLECT-QUEUE QEDITOR)

```
else (ERROR "No current QEdit in progress")
```

**(QEDIT.RESET**

```
[LAMBDA NIL
```

```
(* Koomen "11-Dec-87 14:52")
```

```
; Edited 27-Nov-87 14:43 by Koomen
```

```
(if (for QEDITOR in *QEDITORS* thereis (NEQ (fetch (QEDITOR QUEUE) of QEDITOR)
'RELEASED))
```

```
then (QE-PROMPTPRINT NIL "Can't reset QEdit while edits in progress")
```

```
    NIL
  else (SETQ *QEDITORS*
    T))
```

```
)
```

```
(RPAQ? *QEDITPROPS* '(TITLE "Queue Editor" LABELFONT (HELVETICA 8)))
```

```
:: Implementation
```

```
(DECLARE%: DONTCOPY
```

```
(DECLARE%: EVAL@COMPILE
```

```
(DATATYPE QEDITOR
```

```
(QUEUE TITLE ENTRIES ENTRYCNT SELECTION LABELFONT LABELFN INSERTFN EDITFN DELETEN XOFFSET YOFFSET WINDOW
DSP PROMPTWINDOW MENU COMMAND USERCONTEXT CHANGES? UNDOLIST REDOLIST))
```

```
(DATATYPE QENTRY (ELEMENT LABEL LABELWIDTH INDEX BIGBOX LBLBOX ORDBOX INVBOX OBSBOX VISIBLE? SELECTED?))
```

```
)
```

```
(/DECLAREDATATYPE 'QEDITOR
```

```
'(POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER
POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER))
```

```
:: ---field descriptor list elided by lister---
```

```
' 42)
```

```
(/DECLAREDATATYPE 'QENTRY '(POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER
POINTER))
```

```
:: ---field descriptor list elided by lister---
```

```
' 22)
```

```
)
```

```
(/DECLAREDATATYPE 'QEDITOR
```

```
'(POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER
POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER))
```

```
:: ---field descriptor list elided by lister---
```

```
' 42)
```

```
(/DECLAREDATATYPE 'QENTRY '(POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER POINTER
POINTER))
```

```
:: ---field descriptor list elided by lister---
```

```
' 22)
```

```
(DEFINEQ
```

**(QE-ACQUIRE-EDITOR**

```
[LAMBDA NIL
```

```
; Edited 27-Nov-87 15:09 by Koomen
```

```
(for QEDITOR in *QEDITORS* when (EQ 'RELEASED (fetch (QEDITOR QUEUE) of QEDITOR)) do (RETURN QEDITOR)
finally (SETQ QEDITOR (QE-CREATE-EDITOR))
  (SETQ *QEDITORS* (NCONC1 *QEDITORS* QEDITOR))
  (RETURN QEDITOR]))
```

**(QE-ADJUST-SCROLL-PARAMS**

```
[LAMBDA (QEDITOR WIDTH HEIGHT XOFFSET YOFFSET)
```

```
; Edited 25-Nov-87 16:15 by Koomen
```

```
(replace (QEDITOR XOFFSET) of QEDITOR with XOFFSET)
```

```
(replace (QEDITOR YOFFSET) of QEDITOR with YOFFSET)
```

```
(WINDOWPROP (fetch (QEDITOR WINDOW) of QEDITOR)
```

```
'EXTENT
```

```
(CREATEREGION 0 0 WIDTH HEIGHT))
```

**(QE-BUTTONEVENTFN**

```
[LAMBDA (WINDOW)
```

```
; Edited 21-Jan-88 23:13 by Koomen
```

```
(DECLARE (GLOBALVARS LASTMOUSEBUTTONS))
```

```
(PROG [(QEDITOR (WINDOWPROP WINDOW 'QEDITOR))
```

```
(BUTTON (if (LASTMOUSESTATE (ONLY LEFT))
```

```
then 'LEFT
```

```
elseif (LASTMOUSESTATE (ONLY MIDDLE))
```

```
then 'MIDDLE]
```

```
(TOTOPW WINDOW)
```

```
(if (AND QEDITOR BUTTON)
```

```
then (QE-SLIDE-ENTRY QEDITOR (QE-MOUSED-ENTRY QEDITOR))
```

BUTTON])

**(QE-CLOSEFN**

```
[LAMBDA (WINDOW) ; Edited 27-Nov-87 11:42 by Koomen
  (PROG [(QEDITOR (WINDOWPROP WINDOW 'QEDITOR)
    (if (QEDITOR
      then (if (fetch (QEDITOR COMMAND) of QEDITOR)
        then (RETURN 'DON'T)
        else (replace (QEDITOR COMMAND) of QEDITOR with 'Done])
```

**(QE-CMD-INSERT**

```
[LAMBDA (QEDITOR) (* Koomen "22-Jan-88 13:41")
  (PROG (NEWENTRY ENTRIES)
    (if (NULL (fetch (QEDITOR INSERTFN) of QEDITOR))
      then (QE-PROMPTPRINT QEDITOR "Don't know how to insert elements")
      (RETURN))
    (SETQ NEWENTRY (APPLY* (fetch (QEDITOR INSERTFN) of QEDITOR)
      (fetch (QEDITOR USERCONTEXT) of QEDITOR)))
    (if (NULL NEWENTRY)
      then (QE-PROMPTPRINT QEDITOR "Nothing to insert")
      (RETURN))
    (SETQ NEWENTRY (QE-CREATE-ENTRY QEDITOR NEWENTRY))
    (SETQ ENTRIES (fetch (QEDITOR ENTRIES) of QEDITOR))
    [if (NULL ENTRIES)
      then (replace (QEDITOR ENTRIES) of QEDITOR with (LIST NEWENTRY))
      else (for ENTRYP on ENTRIES when (fetch (QENTRY SELECTED?) of (CAR ENTRYP))
        do (RPLNODE ENTRYP NEWENTRY (CONS (CAR ENTRYP)
          (CDR ENTRYP)))
        (RETURN))
      finally (replace (QEDITOR ENTRIES) of QEDITOR with (CONS NEWENTRY ENTRIES)]
    (add (fetch (QEDITOR ENTRYCNT) of QEDITOR)
      1)
    (QE-MARKASCHANGED QEDITOR)
    (QE-PLACE-ENTRIES QEDITOR)
    (QE-DISPLAY-ENTRIES QEDITOR)
    (QE-SELECT-ENTRY QEDITOR NEWENTRY])
```

**(QE-CMD-EDIT**

```
[LAMBDA (QEDITOR) ; Edited 22-Jan-88 00:15 by Koomen
  (PROG (ENTRY RESULT OLDLABEL NEWLABEL)
    (SETQ ENTRY (fetch (QEDITOR SELECTION) of QEDITOR))
    (if (NULL ENTRY)
      then (QE-PROMPTPRINT QEDITOR "Nothing selected")
      (RETURN))
    (if (NULL (fetch (QEDITOR EDITFN) of QEDITOR))
      then (QE-PROMPTPRINT QEDITOR "Qedit selection cannot be edited")
      (RETURN))
    (SETQ RESULT (APPLY* (fetch (QEDITOR EDITFN) of QEDITOR)
      (fetch (QENTRY ELEMENT) of ENTRY)
      (fetch (QEDITOR USERCONTEXT) of QEDITOR)))
    (if RESULT
      then (replace (QENTRY ELEMENT) of ENTRY with RESULT)
      (SETQ OLDLABEL (fetch (QENTRY LABEL) of ENTRY))
      (QE-COMPUTE-LABEL QEDITOR ENTRY)
      (SETQ NEWLABEL (fetch (QENTRY LABEL) of ENTRY))
      (if (NOT (EQUAL NEWLABEL OLDLABEL))
        then (QE-PLACE-ENTRIES QEDITOR)
        (QE-DISPLAY-ENTRIES QEDITOR])
```

**(QE-CMD-DELETE**

```
[LAMBDA (QEDITOR) ; Edited 21-Jan-88 23:43 by Koomen
  ;; Delete the current selection provided there is a DELETEDP function returning T
  (PROG ((OLDENTRY (fetch (QEDITOR SELECTION) of QEDITOR))
    (if (NULL OLDENTRY)
      then (QE-PROMPTPRINT QEDITOR "Nothing selected")
      elseif (AND (fetch (QEDITOR DELETEDP) of QEDITOR)
        (APPLY* (fetch (QEDITOR DELETEDP) of QEDITOR)
          (fetch (QENTRY ELEMENT) of OLDENTRY)
          (fetch (QEDITOR USERCONTEXT) of QEDITOR)))
      then (replace (QEDITOR ENTRIES) of QEDITOR with (DREMOVE OLDENTRY (fetch (QEDITOR ENTRIES)
        of QEDITOR)))
      (add (fetch (QEDITOR ENTRYCNT) of QEDITOR)
        -1)
      (replace (QEDITOR SELECTION) of QEDITOR with NIL)
      (QE-MARKASCHANGED QEDITOR)
      (QE-PLACE-ENTRIES QEDITOR)
      (QE-DISPLAY-ENTRIES QEDITOR)
      else (QE-PROMPTPRINT QEDITOR "Qedit selection cannot be deleted"])
```

**(QE-CMD-LEFT**

```
[LAMBDA (QEDITOR) ; Edited 21-Jan-88 23:00 by Koomen
```

;; Moves the current selection one place to the left, if possible. Returns the new current selection.

```
(PROG ((LEFT)
  (RIGHT (fetch (QEDITOR SELECTION) of QEDITOR))
  (ENTRIES (fetch (QEDITOR ENTRIES) of QEDITOR)))
  (if (NULL RIGHT)
    then (QE-PROMPTPRINT QEDITOR "Nothing selected")
    (RETURN))
  (if (EQ RIGHT (CAR ENTRIES))
    then (QE-PROMPTPRINT QEDITOR "Can't move selection further left")
    (RETURN RIGHT))
  (do (SETQ LEFT (pop ENTRIES)) repeatuntil (EQ RIGHT (CAR ENTRIES)))
  (swap (fetch (QENTRY LABEL) of LEFT)
        (fetch (QENTRY LABEL) of RIGHT))
  (swap (fetch (QENTRY ELEMENT) of LEFT)
        (fetch (QENTRY ELEMENT) of RIGHT))
  (QE-MARKASCHANGED QEDITOR)
  (QE-REDISPLAY-ENTRY QEDITOR RIGHT)
  (QE-REDISPLAY-ENTRY QEDITOR LEFT)
  (RETURN (QE-SELECT-ENTRY QEDITOR LEFT))
```

**(QE-CMD-RIGHT**

; Edited 21-Jan-88 23:03 by Koomen

```
[LAMBDA (QEDITOR)
  (PROG ((LEFT (fetch (QEDITOR SELECTION) of QEDITOR))
    (RIGHT)
    (ENTRIES (fetch (QEDITOR ENTRIES) of QEDITOR)))
    (if (NULL LEFT)
      then (QE-PROMPTPRINT QEDITOR "Nothing selected")
      (RETURN))
    (do (SETQ RIGHT (CADR ENTRIES)) repeatuntil (EQ LEFT (pop ENTRIES)))
    (if (NULL RIGHT)
      then (QE-PROMPTPRINT QEDITOR "Can't move selection further right")
      (RETURN LEFT))
    (swap (fetch (QENTRY LABEL) of LEFT)
          (fetch (QENTRY LABEL) of RIGHT))
    (swap (fetch (QENTRY ELEMENT) of LEFT)
          (fetch (QENTRY ELEMENT) of RIGHT))
    (QE-MARKASCHANGED QEDITOR)
    (QE-REDISPLAY-ENTRY QEDITOR LEFT)
    (QE-REDISPLAY-ENTRY QEDITOR RIGHT)
    (RETURN (QE-SELECT-ENTRY QEDITOR RIGHT))
```

**(QE-COLLECT-QUEUE**

(\* Koomen "25-May-87 12:05")

```
[LAMBDA (QEDITOR)
  (for ENTRY in (fetch (QEDITOR ENTRIES) of QEDITOR) collect (fetch (QENTRY ELEMENT) of ENTRY))
```

**(QE-COMPUTE-LABEL**

; Edited 27-Nov-87 11:57 by Koomen

```
[LAMBDA (QEDITOR ENTRY)
  (PROG ((LABEL (OR (AND (fetch (QEDITOR LABELFN) of QEDITOR)
    (APPLY* (fetch (QEDITOR LABELFN) of QEDITOR)
            (fetch (QENTRY ELEMENT) of ENTRY)
            (fetch (QEDITOR USERCONTEXT) of QEDITOR)))
    (fetch (QENTRY ELEMENT) of ENTRY)))
    (LABELFONT (fetch (QEDITOR LABELFONT) of QEDITOR)))
  (replace (QENTRY LABEL) of ENTRY with LABEL)
  (replace (QENTRY LABELWIDTH) of ENTRY with (STRINGWIDTH LABEL LABELFONT))
  (RETURN ENTRY))
```

**(QE-CREATE-EDITOR**

(\* Koomen "22-Jan-88 14:30")

```
[LAMBDA NIL
  (LET* ((QEDITMENU (create MENU
    ITEMS _ ' ("<--" Left "Moves selected entry to the left")
              ("-->" Right "Moves selected entry to the right")
              (Insert Insert "Insert a new entry before the selected one")
              (Edit Edit "Edit the selected entry")
              (Delete Delete "Delete the selected entry")
              (Abort Abort "Abort Queue Editor, returning original queue")
              (Done Done "Exit Queue Editor, returning current queue"))
    MENUFONT _ (MODERN 12)
    CENTERFLG _ T
    WHENSELECTEDFN _ (FUNCTION QE-WHENSELECTEDFN)))
    (QEDITWINDOW (CREATEMENUEWINDOW QEDITMENU "Queue Editor")))
  (WINDOWADDPROP QEDITWINDOW 'CLOSEFN (FUNCTION QE-CLOSEFN))
  (WINDOWADDPROP QEDITWINDOW 'REPAINTFN (FUNCTION QE-REPAINTFN))
  (WINDOWADDPROP QEDITWINDOW 'RESHAPEFN (FUNCTION QE-RESHAPEFN))
  (WINDOWPROP QEDITWINDOW 'BUTTONEVENTFN (FUNCTION QE-BUTTONEVENTFN))
  (WINDOWPROP QEDITWINDOW 'SCROLLFN (FUNCTION QE-SCROLLFN))
  (WINDOWPROP QEDITWINDOW 'SCROLLEXTENTUSE '(LIMIT . LIMIT))
  (create QEDITOR
    MENU _ QEDITMENU
    WINDOW _ QEDITWINDOW
    DSP _ (WINDOWPROP QEDITWINDOW 'DSP)
    PROMPTWINDOW _ (GETPROMPTWINDOW QEDITWINDOW))
```

**(QE-CREATE-ENTRIES**

```

[LAMBDA (QEDITOR)
  (PROG [(ENTRIES (for ELEMENT in (fetch (QEDITOR QUEUE) of QEDITOR) collect (QE-CREATE-ENTRY QEDITOR ELEMENT))
    (replace (QEDITOR ENTRIES) of QEDITOR with ENTRIES)
    (replace (QEDITOR ENTRYCNT) of QEDITOR with (LENGTH ENTRIES))
    (replace (QEDITOR SELECTION) of QEDITOR with NIL)])
; Edited 27-Nov-87 17:15 by Koomen

```

**(QE-CREATE-ENTRY**

```

[LAMBDA (QEDITOR ELEMENT)
  (QE-COMPUTE-LABEL QEDITOR (create QENTRY
    ELEMENT _ ELEMENT))]
(* Koomen "26-May-87 00:20")

```

**(QE-DISPLAY-ENTRIES**

```

[LAMBDA (QEDITOR)
  (QE-RESET-DSP QEDITOR)
  (QE-DISPLAY-ENTRIES-AUX QEDITOR (fetch (QEDITOR ENTRIES) of QEDITOR)
    (QE-MARK-VISIBLE-ENTRIES QEDITOR))
  (QE-SELECT-ENTRY QEDITOR (fetch (QEDITOR SELECTION) of QEDITOR))
; Edited 21-Jan-88 23:46 by Koomen

```

**(QE-DISPLAY-ENTRIES-AUX**

```

[LAMBDA (QEDITOR ENTRIES N)
  ;; Recursively display the entries (back to front) [first N, if non-NIL]
  (if (AND ENTRIES (OR (NULL N)
    (IGREATERP N 0)))
    then (QE-DISPLAY-ENTRIES-AUX QEDITOR (CDR ENTRIES)
      (AND N (SUB1 N)))
    (QE-DISPLAY-ENTRY QEDITOR (CAR ENTRIES)))
; Edited 25-Nov-87 16:15 by Koomen

```

**(QE-DISPLAY-ENTRY**

```

[LAMBDA (QEDITOR ENTRY)
  (DECLARE (GLOBALVARS BLACKSHADE))
  (if (fetch (QENTRY VISIBLE?) of ENTRY)
    then (LET ((DSP (fetch (QEDITOR DSP) of QEDITOR)))
      (with REGION (fetch (QENTRY BIGBOX) of ENTRY)
        (GRAYBOXAREA LEFT BOTTOM WIDTH HEIGHT 1 BLACKSHADE DSP))
      (with REGION (fetch (QENTRY LBLBOX) of ENTRY)
        (MOVETO LEFT BOTTOM DSP))
      (PRINTOUT DSP (fetch (QENTRY LABEL) of ENTRY))
      (with REGION (fetch (QENTRY ORDBOX) of ENTRY)
        (MOVETO LEFT BOTTOM DSP))
      (PRINTOUT DSP (fetch (QENTRY INDEX) of ENTRY))
      (replace (QENTRY SELECTED?) of ENTRY with NIL))
    )
; Edited 21-Jan-88 21:51 by Koomen

```

**(QE-FOCUS-SELECTION**

```

[LAMBDA (QEDITOR COMMAND)
  (PROG (QENTRY QENTRYBOX QEDITWINDOW QEDITREGION)
    (if [AND (SETQ QENTRY (fetch (QEDITOR SELECTION) of QEDITOR))
      (NOT (SUBREGIONP [SETQ QEDITREGION (DSPCLIPPINGREGION NIL (SETQ QEDITWINDOW
        (fetch (QEDITOR WINDOW) of QEDITOR]
        (SETQ QENTRYBOX (fetch (QENTRY BIGBOX) of QENTRY)
        (with REGION QEDITREGION (PLUS LEFT RIGHT))
        (with REGION QENTRYBOX (PLUS LEFT RIGHT)))
        2)
        0)
      (if COMMAND
        then (QE-PROMPTPRINT QEDITOR "Queue Editor command \" COMMAND \" ignored"))
      (RETURN T)])
; Edited 22-Jan-88 00:18 by Koomen

```

**(QE-INIT-EDITOR**

```

[LAMBDA (QEDITOR QUEUE PROPS)
  (LET ((QEDITMENU (fetch (QEDITOR MENU) of QEDITOR))
    (QEDITWINDOW (fetch (QEDITOR WINDOW) of QEDITOR)))
    (PUTMENUPROP QEDITMENU 'QEDITOR QEDITOR)
    (WINDOWPROP QEDITWINDOW 'QEDITOR QEDITOR)
    [WINDOWPROP QEDITWINDOW 'TITLE (replace (QEDITOR TITLE) of QEDITOR with (LISTGET PROPS 'TITLE)]
    (replace (QEDITOR QUEUE) of QEDITOR with (MKLIST QUEUE))
    (replace (QEDITOR LABELFN) of QEDITOR with (LISTGET PROPS 'LABELFN))
    (replace (QEDITOR LABELFONT) of QEDITOR with (FONTCREATE (LISTGET PROPS 'LABELFONT)
      (LISTGET PROPS 'INSERTFN)
      (LISTGET PROPS 'ADDFN)
      (LISTGET PROPS 'EDITFN))
    (replace (QEDITOR EDITFN) of QEDITOR with (LISTGET PROPS 'EDITFN))
    (replace (QEDITOR DELETFN) of QEDITOR with (LISTGET PROPS 'DELETFN))
    (replace (QEDITOR USERCONTEXT) of QEDITOR with (LISTGET PROPS 'CONTEXT))
    (replace (QEDITOR COMMAND) of QEDITOR with NIL)
    (replace (QEDITOR CHANGES?) of QEDITOR with NIL)
    (DSPFONT (fetch (QEDITOR LABELFONT) of QEDITOR)
      (fetch (QEDITOR DSP) of QEDITOR))
    (CLEARW QEDITWINDOW))
(* Koomen "22-Jan-88 14:29")

```

```
(CLEARW (fetch (QEDITOR PROMPTWINDOW) of QEDITOR))
QEDITOR])
```

**(QE-MARKASCHANGED**

```
[LAMBDA (QEDITOR)
```

```
(* Koomen "11-Dec-87 15:04")
```

```
; Edited 27-Nov-87 17:10 by Koomen
```

```
  [if (NOT (fetch (QEDITOR CHANGES?) of QEDITOR))
      then (replace (QEDITOR CHANGES?) of QEDITOR with T)
          (WINDOWPROP (fetch (QEDITOR WINDOW) of QEDITOR)
                       'TITLE
                       (CONCAT "** " (fetch (QEDITOR TITLE) of QEDITOR)
                                QEDITOR))]
    QEDITOR])
```

**(QE-MARK-VISIBLE-ENTRIES**

```
[LAMBDA (QEDITOR)
```

```
; Edited 22-Jan-88 00:19 by Koomen
```

```
  (for ENTRY in (fetch (QEDITOR ENTRIES) of QEDITOR) bind (LASTINDEX _ 0)
              (CLIPPINGREGION _ (DSPCLIPPINGREGION
                                NIL
                                (fetch (QEDITOR WINDOW) of QEDITOR))))
    do (if (replace (QENTRY VISIBLE?) of ENTRY with (REGIONSINTERSECTP CLIPPINGREGION (fetch (QENTRY BIGBOX)
                                                                                               of ENTRY)))
        then (SETQ LASTINDEX (fetch (QENTRY INDEX) of ENTRY)))
    finally (RETURN LASTINDEX))
```

**(QE-MAX-INDEX-WIDTH**

```
[LAMBDA (QEDITOR)
```

```
; Edited 27-Nov-87 17:05 by Koomen
```

```
  (STRINGWIDTH (TIMES (fetch (QEDITOR ENTRYCNT) of QEDITOR)
                    10)
    (fetch (QEDITOR LABELFONT) of QEDITOR])
```

**(QE-MAX-LABEL-WIDTH**

```
[LAMBDA (QEDITOR)
```

```
(* Koomen "26-May-87 00:14")
```

```
  (for ENTRY in (fetch (QEDITOR ENTRIES) of QEDITOR) bind (W _ (STRINGWIDTH "Some Label" (fetch (QEDITOR LABELFONT)
                                                                                               of QEDITOR)))
    do (SETQ W (IMAX W (fetch (QENTRY LABELWIDTH) of ENTRY))) finally (RETURN W))
```

**(QE-MOUSE-IN-ENTRY**

```
[LAMBDA (QEDITOR ENTRY)
```

```
; Edited 21-Jan-88 22:23 by Koomen
```

```
  (LET ((QWINDOW (fetch (QEDITOR WINDOW) of QEDITOR))
        (INSIDEP (fetch (QENTRY BIGBOX) of ENTRY)
                (LASTMOUSEX QWINDOW)
                (LASTMOUSEY QWINDOW)))
```

**(QE-MOUSED-ENTRY**

```
[LAMBDA (QEDITOR)
```

```
(* Koomen "25-May-87 12:44")
```

```
  (for ENTRY in (fetch (QEDITOR ENTRIES) of QEDITOR) thereis (QE-MOUSE-IN-ENTRY QEDITOR ENTRY])
```

**(QE-PLACE-ENTRIES**

```
[LAMBDA (QEDITOR)
```

```
(* Koomen "22-Jan-88 15:59")
```

```
  (PROG (DSP ENTRIES FONT FONTHEIGHT LABEL-W INDEX-W BIGBOX-H YOFFSET REGION XOFFSET BIGBOX-W XLBLOFFSET
          YLBLOFFSET X Y LASTBOX NEXTBOX XVISIBLE YVISIBLE)
    (SETQ DSP (fetch (QEDITOR DSP) of QEDITOR))
    (SETQ ENTRIES (fetch (QEDITOR ENTRIES) of QEDITOR))
    (SETQ FONT (fetch (QEDITOR LABELFONT) of QEDITOR))
    (SETQ FONTHEIGHT (FONTHEIGHT FONT))
    (SETQ LABEL-W (QE-MAX-LABEL-WIDTH QEDITOR))
    (SETQ INDEX-W (QE-MAX-INDEX-WIDTH QEDITOR))
    (SETQ BIGBOX-H (QUOTIENT (TIMES FONTHEIGHT 7)
                             2))
    (SETQ YOFFSET (ADD1 (QUOTIENT BIGBOX-H 2)))
    (SETQ BIGBOX-W (PLUS LABEL-W INDEX-W 8))
    (SETQ XOFFSET (PLUS INDEX-W 8))
    (SETQ REGION (DSPCLIPPINGREGION NIL DSP))
    (SETQ XVISIBLE (ADD1 (QUOTIENT (DIFFERENCE (fetch (REGION WIDTH) of REGION)
                                              BIGBOX-W)
                                   XOFFSET)))
    (SETQ YVISIBLE (ADD1 (QUOTIENT (DIFFERENCE (fetch (REGION HEIGHT) of REGION)
                                              BIGBOX-H)
                                   YOFFSET)))
    (if (LESSP YVISIBLE XVISIBLE)
        then (LET ((NEWXOFFSET (QUOTIENT (DIFFERENCE (fetch (REGION WIDTH) of REGION)
                                              BIGBOX-W)
                                           YVISIBLE)))
            (add BIGBOX-W (DIFFERENCE NEWXOFFSET XOFFSET))
            (SETQ XOFFSET NEWXOFFSET)))
    (SETQ XLBLOFFSET 3)
    (SETQ YLBLOFFSET (DIFFERENCE BIGBOX-H (PLUS FONTHEIGHT 2)))
    (SETQ X 4)
    (SETQ Y 4))
```

```

(for ENTRY in ENTRIES as I from 1 do (replace (QENTRY INDEX) of ENTRY with I)
  (SETQ LASTBOX NEXTBOX)
  (SETQ NEXTBOX (CREATEREGION X Y BIGBOX-W BIGBOX-H))
  (replace (QENTRY BIGBOX) of ENTRY with NEXTBOX)
  (replace (QENTRY INVBOX) of ENTRY with (CREATEREGION (ADD1 X)
    (ADD1 Y)
    (DIFFERENCE BIGBOX-W 2)
    (DIFFERENCE BIGBOX-H 2)
    ))
  (LET ((LABEL-X (PLUS X XLBOFFSET))
        (LABEL-Y (PLUS Y YLBOFFSET)))
    (replace (QENTRY LBLBOX) of ENTRY
      with (CREATEREGION LABEL-X LABEL-Y LABEL-W FONTHEIGHT)))
  (SETQ INDEX-W (STRINGWIDTH I FONT))
  (LET ((INDEX-X (DIFFERENCE (PLUS X BIGBOX-W)
    (PLUS INDEX-W 4)))
        (INDEX-Y (PLUS Y 3)))
    (replace (QENTRY ORDBOX) of ENTRY
      with (CREATEREGION INDEX-X INDEX-Y INDEX-W FONTHEIGHT)))
  [if LASTBOX
    then (with REGION (INTERSECTREGIONS LASTBOX NEXTBOX)
      (replace (QENTRY OBSBOX) of ENTRY
        with (CREATEREGION (ADD1 LEFT)
          (ADD1 BOTTOM)
          WIDTH HEIGHT)
        )
      )
    (add X XOFFSET)
    (add Y YOFFSET))
  (QE-ADJUST-SCROLL-PARAMS QEDITOR (PLUS X BIGBOX-W)
    (PLUS Y BIGBOX-H)
    XOFFSET YOFFSET])

```

**(QE-PROMPTPRINT**

```

[LAMBDA PROMPTCNT
  (if (LESSP PROMPTCNT 1)
    then (SHOULDNT "Missing QEditor arg")
    else (LET ((QEDITOR (ARG PROMPTCNT 1)))
      (if (type? QEDITOR QEDITOR)
        then [LET ((PROMPTW (fetch (QEDITOR PROMPTWINDOW) of QEDITOR))
          (CLEARW PROMPTW)
          (for I from 2 to PROMPTCNT do (printout PROMPTW (ARG PROMPTCNT I)
            (TERPRI PROMPTWINDOW)
            (for I from 2 to PROMPTCNT do (printout PROMPTWINDOW (ARG PROMPTCNT I)
              (TERPRI PROMPTWINDOW)]
            )
          )
        else (TERPRI PROMPTWINDOW)
        )
      )
    ]
  )
  (* Koomen "22-Jan-88 14:28")

```

**(QE-REDISPLAY-ENTRY**

```

[LAMBDA (QEDITOR ENTRY)
  ;; ENTRY's label has changed, so deselect if necessary and reprint label
  (DECLARE (GLOBALVARS BLACKSHADE))
  (if (fetch (QENTRY VISIBLE?) of ENTRY)
    then (QE-TOGGLE-ENTRY QEDITOR ENTRY)
    (PROG ((DSP (fetch (QEDITOR DSP) of QEDITOR))
      (LBLBOX (fetch (QENTRY LBLBOX) of ENTRY)))
      (DSPFILL LBLBOX WHITESHADE 'REPLACE DSP)
      (with REGION LBLBOX (MOVETO LEFT BOTTOM DSP))
      (PRINTOUT DSP (fetch (QENTRY LABEL) of ENTRY]))
    )
  )
  ; Edited 21-Jan-88 23:39 by Koomen

```

**(QE-RELEASE-EDITOR**

```

[LAMBDA (QEDITOR)
  ;; Done editing, so squirrel it away for future use. Break the circular links for GC purposes
  (DECLARE (GLOBALVARS *QEDITORS*))
  (LET ((QEDITMENU (fetch (QEDITOR MENU) of QEDITOR))
    (QEDITWINDOW (fetch (QEDITOR WINDOW) of QEDITOR))
    (PROMPTW (fetch (QEDITOR PROMPTWINDOW) of QEDITOR)))
    (PUTMENUPROP QEDITMENU 'QEDITOR NIL)
    (WINDOWPROP QEDITWINDOW 'QEDITOR NIL)
    (if (OPENWP QEDITWINDOW)
      then (CLOSEW QEDITWINDOW)
      )
    (if (OPENWP PROMPTW)
      then (CLOSEW PROMPTW)
      )
    (replace (QEDITOR QUEUE) of QEDITOR with 'RELEASED])
  (* Koomen "22-Jan-88 14:43")

```

**(QE-REPAINTFN**

```

[LAMBDA (WINDOW)
  (PROG [(QEDITOR (WINDOWPROP WINDOW 'QEDITOR)
    (if QEDITOR
      then (QE-DISPLAY-ENTRIES QEDITOR)
      )
    ]
  )
  ; Edited 21-Jan-88 22:12 by Koomen

```

**(QE-RESET-DSP**

```

[LAMBDA (QEDITOR)
  (PROG* ((DSP (fetch (QEDITOR DSP) of QEDITOR)))
  )
  ; Edited 21-Jan-88 22:01 by Koomen

```

```

(DSPRIGHTMARGIN MAX.SMALLP DSP)
(DSPFILL NIL NIL NIL DSP)
(with REGION (DSPCLIPPINGREGION NIL DSP)
  (MOVETO (PLUS LEFT 4)
    (DIFFERENCE TOP (PLUS (FONTHEIGHT (fetch (QEDITOR LABELFONT) of QEDITOR))
      2))
    DSP))
(printout DSP (fetch (QEDITOR ENTRYCNT) of QEDITOR)
  " elements"])
```

**(QE-RESHAPEFN**

```

[LAMBDA (WINDOW OLDBM OLDREG)
  (PROG [(QEDITOR (WINDOWPROP WINDOW 'QEDITOR)
    (if QEDITOR
      then (QE-PLACE-ENTRIES QEDITOR)
            (QE-DISPLAY-ENTRIES QEDITOR)
      else (BITBLT OLDBM (fetch (REGION LEFT) of OLDREG)
        (fetch (REGION BOTTOM) of OLDREG)
        WINDOW])
```

; Edited 21-Jan-88 22:07 by Koomen

**(QE-RUN-EDITOR**

```

[LAMBDA (QEDITOR)
  (while T bind COMMAND first (QE-CREATE-ENTRIES QEDITOR)
    (QE-PLACE-ENTRIES QEDITOR)
    (QE-DISPLAY-ENTRIES QEDITOR)
  eachtime (BLOCK) when (SETQ COMMAND (fetch (QEDITOR COMMAND) of QEDITOR))
  do (QE-PROMPTPRINT QEDITOR)
    (SELECTQ COMMAND
      (Left (OR (QE-FOCUS-SELECTION QEDITOR COMMAND)
        (QE-CMD-LEFT QEDITOR)))
      (Right (OR (QE-FOCUS-SELECTION QEDITOR COMMAND)
        (QE-CMD-RIGHT QEDITOR)))
      (Insert (OR (QE-FOCUS-SELECTION QEDITOR COMMAND)
        (QE-CMD-INSERT QEDITOR)))
      (Edit (OR (QE-FOCUS-SELECTION QEDITOR COMMAND)
        (QE-CMD-EDIT QEDITOR)))
      (Delete (OR (QE-FOCUS-SELECTION QEDITOR COMMAND)
        (QE-CMD-DELETE QEDITOR)))
      (Abort (RETURN (fetch (QEDITOR QUEUE) of QEDITOR)))
      (Done (RETURN (QE-COLLECT-QUEUE QEDITOR)))
      (Display (QE-DISPLAY-ENTRIES QEDITOR))
      (QE-PROMPTPRINT QEDITOR "Queue Editor command ``" COMMAND "`` not yet implemented.))
    (replace (QEDITOR COMMAND) of QEDITOR with NIL])
```

(\* Koomen "22-Jan-88 13:38")

**(QE-SCROLLFN**

```

[LAMBDA (WINDOW XDELTA YDELTA CONTINUOUSFLG)
```

; Edited 22-Jan-88 00:20 by Koomen

;; Adjust XDELTA and YDELTA such that scrolling always takes place along the diagonal axis, rather than along the horizontal or vertical axes

```

(PROG (QEDITOR DSP XOFFSET YOFFSET OLDBM NEWREG EXTENT TOSTARTFLG THUMBFLG DX DY)
  (SETQ QEDITOR (WINDOWPROP WINDOW 'QEDITOR))
  (if (NULL QEDITOR)
    then (RETURN))
  (SETQ DSP (fetch (QEDITOR DSP) of QEDITOR))
  (SETQ XOFFSET (fetch (QEDITOR XOFFSET) of QEDITOR))
  (SETQ YOFFSET (fetch (QEDITOR YOFFSET) of QEDITOR))
  (SETQ OLDBM (DSPCLIPPINGREGION NIL DSP))
  (SETQ NEWREG (COPY OLDBM))
  (SETQ EXTENT (WINDOWPROP WINDOW 'EXTENT))
  (if (LESSP XDELTA 0)
    then (SETQ TOSTARTFLG T)
          (SETQ DX (MINUS XDELTA))
    else (SETQ DX XDELTA))
  (if (LESSP YDELTA 0)
    then (SETQ TOSTARTFLG T)
          (SETQ DY (MINUS YDELTA))
    else (SETQ DY YDELTA))
  (if CONTINUOUSFLG
    then (SETQ DX XOFFSET)
          (SETQ DY YOFFSET)
    elseif (FLOATP DX)
    then (SETQ DY DX)
          (SETQ THUMBFLG T)
    elseif (FLOATP DY)
    then (SETQ DX (SETQ DY (DIFFERENCE 1 DY)))
          (SETQ THUMBFLG T)
    elseif (ZEROP DX)
    then (SETQ DX (QUOTIENT (TIMES DY XOFFSET)
      YOFFSET))
    else (SETQ DY (QUOTIENT (TIMES DX YOFFSET)
      XOFFSET))
  (replace (REGION LEFT) of NEWREG with (if THUMBFLG
    then [FIX (DIFFERENCE (TIMES DX (fetch (REGION WIDTH)
      of EXTENT))
      (TIMES 0.5 (fetch (REGION WIDTH) of NEWREG)
```



```

elseif TOSTARTFLG
  then (PLUS (fetch (REGION LEFT) of NEWREG)
           DX)
else (DIFFERENCE (fetch (REGION LEFT) of NEWREG)
           DX))
(replace (REGION BOTTOM) of NEWREG with (if THUMBFLG
  then [FIX (DIFFERENCE (TIMES DY (fetch (REGION HEIGHT)
                                           of EXTENT))
                      (TIMES 0.5 (fetch (REGION HEIGHT)
                                           of NEWREG)]
  elseif TOSTARTFLG
  then (PLUS (fetch (REGION BOTTOM) of NEWREG)
           DY)
  else (DIFFERENCE (fetch (REGION BOTTOM) of NEWREG)
           DY)))
(MAKEWITHINREGION NEWREG (WINDOWPROP WINDOW 'EXTENT))
(if (NOT (EQUAL NEWREG OLDREG))
  then (PROG [[NEWDSPX (PLUS (DSPXOFFSET NIL DSP)
                           (DIFFERENCE (fetch (REGION LEFT) of OLDREG)
                                         (fetch (REGION LEFT) of NEWREG]
                           (NEWDSPY (PLUS (DSPYOFFSET NIL DSP)
                                         (DIFFERENCE (fetch (REGION BOTTOM) of OLDREG)
                                                         (fetch (REGION BOTTOM) of NEWREG]
                           (UNINTERRUPTABLY
                            (DSPCLIPPINGREGION NEWREG DSP)
                            (DSPXOFFSET NEWDSPX DSP)
                            (DSPYOFFSET NEWDSPY DSP)))
(QE-DISPLAY-ENTRIES QEDITOR]))

```

**(QE-SELECT-ENTRY**

```

[LAMBDA (QEDITOR NEW-SELECTION) ; Edited 21-Jan-88 23:56 by Koomen
  (LET ((OLD-SELECTION (fetch (QEDITOR SELECTION) of QEDITOR)))
    (if OLD-SELECTION
      then (QE-TOGGLE-ENTRY QEDITOR OLD-SELECTION))
    (if NEW-SELECTION
      then (QE-TOGGLE-ENTRY QEDITOR NEW-SELECTION T))
    (replace (QEDITOR SELECTION) of QEDITOR with NEW-SELECTION)
    (if (AND NEW-SELECTION (NEQ NEW-SELECTION OLD-SELECTION))
      then (QE-FOCUS-SELECTION QEDITOR)
      NEW-SELECTION]))

```

**(QE-SLIDE-ENTRY**

```

[LAMBDA (QEDITOR ENTRY BUTTON) (* Koomen "22-Jan-88 14:43")
  ;; Selects ENTRY.
  ;; If BUTTON = LEFT and mouse leaves ENTRY's region, deselects ENTRY and returns.
  ;; If BUTTON = MIDDLE and mouse leaves ENTRY's region on the right, moves selection to the right if possible and loops.
  ;; If BUTTON = MIDDLE and mouse leaves ENTRY's region on the left, moves selection to the left if possible and loops.
  (DECLARE (GLOBALVARS LASTMOUSEBUTTONS LASTMOUSEX LASTMOUSEY))
  (bind X Y REG (L-OK _ T)
        (R-OK _ T)
        (QR _ (WINDOWREGION (fetch (QEDITOR WINDOW) of QEDITOR))) first (QE-PROMPTPRINT QEDITOR)
                                     (QE-SELECT-ENTRY QEDITOR ENTRY))
  while [AND ENTRY (if (EQ BUTTON 'LEFT)
    then (MOUSESTATE (ONLY LEFT))
    elseif (EQ BUTTON 'MIDDLE)
    then (MOUSESTATE (ONLY MIDDLE))
  do (SETQ REG (fetch (QENTRY BIGBOX) of ENTRY))
    (SETQ X (LASTMOUSEX (fetch (QEDITOR WINDOW) of QEDITOR)))
    (SETQ Y (LASTMOUSEY (fetch (QEDITOR WINDOW) of QEDITOR)))
    (if (INSIDEP REG X Y)
      then ; sit tight
      elseif (EQ BUTTON 'LEFT)
      then (QE-SELECT-ENTRY QEDITOR)
      (RETURN)
      elseif (NOT (INSIDEP QR LASTMOUSEX LASTMOUSEY))
      then ; sit tight
      elseif (AND (LESSP X (fetch (REGION LEFT) of REG))
                  (LESSP Y (fetch (REGION TOP) of REG)))
      then (if L-OK
        then (QE-PROMPTPRINT QEDITOR)
              (if (EQ ENTRY (SETQ ENTRY (QE-CMD-LEFT QEDITOR)))
                then (SETQ L-OK)
                else (SETQ R-OK T)))
        elseif (AND (GREATERP X (fetch (REGION RIGHT) of REG))
                    (GREATERP Y (fetch (REGION BOTTOM) of REG)))
        then (if R-OK
          then (QE-PROMPTPRINT QEDITOR)
                (if (EQ ENTRY (SETQ ENTRY (QE-CMD-RIGHT QEDITOR)))
                  then (SETQ R-OK)
                  else (SETQ L-OK T)))

```

**(QE-TOGGLE-ENTRY**

```

[LAMBDA (QEDITOR ENTRY SELECT?)
  (if (AND (fetch (QENTRY VISIBLE?) of ENTRY)
    (NEQ SELECT? (fetch (QENTRY SELECTED?) of ENTRY)))
    then (LET ((DSP (fetch (QEDITOR DSP) of QEDITOR))
      (BOX (fetch (QENTRY INVBOX) of ENTRY))
      (DSPFILL BOX BLACKSHADE 'INVERT DSP)
      (if (SETQ BOX (fetch (QENTRY OBSBOX) of ENTRY))
        then (DSPFILL BOX BLACKSHADE 'INVERT DSP)))
      (replace (QENTRY SELECTED?) of ENTRY with SELECT?]))
    ; Edited 21-Jan-88 23:17 by Koomen

```

**(QE-UNMARKASCHANGED**

```

[LAMBDA (QEDITOR)
  (replace (QEDITOR CHANGES?) of QEDITOR with NIL)
  (WINDOWPROP (fetch (QEDITOR WINDOW) of QEDITOR)
    (fetch (QEDITOR TITLE) of QEDITOR))
  QEDITOR])
; Edited 27-Nov-87 17:11 by Koomen

```

**(QE-WHENSELECTEDFN**

```

[LAMBDA (ITEM MENU)
  (PROG [(QEDITOR (GETMENUPROP MENU 'QEDITOR)
    (if QEDITOR
      then (if (fetch (QEDITOR COMMAND) of QEDITOR)
        then (QE-PROMPTPRINT QEDITOR "Queue Editor busy, executing ``" (fetch (QEDITOR COMMAND)
          of QEDITOR)
          " ")
        else (replace (QEDITOR COMMAND) of QEDITOR with (CADR ITEM]))
      )
    (* Koomen "11-Dec-87 14:53")
    ; Edited 25-Nov-87 16:53 by Koomen
  (RPAQ? *QEDITORS* )
  (DECLARE%: DOEVAL@COMPILE DONTCOPY
  (GLOBALVARS *QEDITORS*)
  )
  (PUTPROPS QEDIT FILETYPE :TCOMPL)
  (PUTPROPS QEDIT MAKEFILE-ENVIRONMENT (:READTABLE "INTERLISP" :PACKAGE "INTERLISP" :BASE 10))
  (DECLARE%: DONTVAL@LOAD DOEVAL@COMPILE DONTCOPY COMPILEVARS
  (ADDTOVAR NLAMA )
  (ADDTOVAR NLAML )
  (ADDTOVAR LAMA QE-PROMPTPRINT)
  )
  (PUTPROPS QEDIT COPYRIGHT ("Johannes A. G. M. Koomen" 1987 1988))

```

FUNCTION INDEX

QE-ACQUIRE-EDITOR .....	QE-CREATE-EDITOR .....	QE-MAX-LABEL-WIDTH .....	QE-SCROLLFN .....
QE-ADJUST-SCROLL-PARAMS .2	QE-CREATE-ENTRIES .....	QE-MOUSE-IN-ENTRY .....	QE-SELECT-ENTRY .....
QE-BUTTONEVENTFN .....	QE-CREATE-ENTRY .....	QE-MOUSED-ENTRY .....	QE-SLIDE-ENTRY .....
QE-CLOSEFN .....	QE-DISPLAY-ENTRIES .....	QE-PLACE-ENTRIES .....	QE-TOGGLE-ENTRY .....
QE-CMD-DELETE .....	QE-DISPLAY-ENTRIES-AUX .5	QE-PROMPTPRINT .....	QE-UNMARKASCHANGED .....
QE-CMD-EDIT .....	QE-DISPLAY-ENTRY .....	QE-REDISPLAY-ENTRY .....	QE-WHENSELECTEDFN .....
QE-CMD-INSERT .....	QE-FOCUS-SELECTION .....	QE-RELEASE-EDITOR .....	QEDIT .....
QE-CMD-LEFT .....	QE-INIT-EDITOR .....	QE-REPAINTFN .....	QEDIT.CURRENT.QUEUE .....
QE-CMD-RIGHT .....	QE-MARK-VISIBLE-ENTRIES .6	QE-RESET-DSP .....	QEDIT.RESET .....
QE-COLLECT-QUEUE .....	QE-MARKASCHANGED .....	QE-RESHAPEFN .....	
QE-COMPUTE-LABEL .....	QE-MAX-INDEX-WIDTH .....	QE-RUN-EDITOR .....	

VARIABLE INDEX

*QEDITORS* .....	*QEDITPROPS* .....
------------------	--------------------

RECORD INDEX

QEDITOR .....	QENTRY .....
---------------	--------------

PROPERTY INDEX

QEDIT .....
-------------