```
15-Aug-90 14:23:08 {DSK}<usr>local>lde>SOURCES>loops>SYSTEM>SEDIT-PATCH.;2
  File created:
    changes to:
                            (VARS SEDIT-PATCHCOMS)
previous date:
                             6-Jun-88 14:55:52 {DSK}<usr>local>lde>SOURCES>loops>SYSTEM>SEDIT-PATCH.;1
   Read Table:
                           XCL
       Package:
                           INTERLISP
            Format:
                              XCCS
; Copyright (c) 1988, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ SEDIT-PATCHCOMS ((DECLARE\: EVAL@COMPILE DONTCOPY (FILES (SOURCE)
                                                                                                                                 SEDIT-DECLS))
                                                             \\\closefn \\\\setup.context
                                                                                                                               \\\\complete
                                                                                                                                                            \\\\sedit
                                                             \\\handle.completion | )))
(DECLARE\: EVAL@COMPILE DONTCOPY
(FILESLOAD (SOURCE)
             SEDIT-DECLS)
(DEFINEQ
(|\\\\closefn
                                                                                                                               ; Edited 6-Jun-88 14:47 by raf
    (LAMBDA (|window|)
;;; to be called by the window system when SEdit windows are closed. if there's a process behind them, wake it up (it should notice that the window is
;;; gone and do the right stuff) otherwise just trash the context. grab the lock here, because it wasn't yet grabbed by the buttoneventfn.
                                           (WINDOWPROP | window | ' | EditContext | ))
                   ((|context|
                         lock (|fetch| |ContextLock | |of | |context |)))
                    (|if|
                           context
                            then
                                                                                                                               : this is a live SEdit
                                      (|if| (OR (EQ :REFETCH |lock|)
                                                       (AND (OBTAIN.MONITORLOCK |lock | T)
                                                                 (TRUE (RELEASE.MONITORLOCK |lock|))))
                                              |then|
                                                                                                                               ; release lock before waking sedit
                                                                (WINDOWPROP | window | 'PROCESS)
                                                         (|if|
                                                                 | then | ( | \ \ \ awake.command.process | context | NIL)
                                                             else
                                                                       ;; this should never happen, now, because completion is unwind protected in \sedit, and so
                                                                       ;; disintegration will have happened under completion. if by chance we screwed up, then the context ;; will still be there, so go ahead and waste it. IT CAN HAPPEN IF SOMEBODY RETFROMs \\settick{setting} setting the context is the context of the context is the context in the context in the context in the context is the context in the 
                                                                        (|\\\disintegrate.context|
                                                                                                                             |context|))
|context|)
                                          |else| (|printout| (|\\\get.prompt.window| |c
T "Can't close. SEdit is busy")
                                                     'DON\'T))))
(|\\\\setup.context|
    (LAMBDA (|context|)
                                                                                                                               ; Edited 6-Apr-88 14:20 by bane
;;; confirm that this context is setup. that means either setting up a new context or verifying the structure in an old one.
        (|if| (NULL (|fetch| |ContextLock | |of| |context|))
               |then| ;; this is a new sedit. setup its profile, and then the context itself
                           (|\\\setup.profile| (|fetch| |Profile| |of| |context|)
                                        |context|)
           (|\\\setup.new.context| |context|)
|elseif| (EQ (|fetch| |ContextLock| |of| |context|)
                                : REFETCH)
               |then|
                          ;; this is a context that was shrunk, and thus we need to refetch when we verify the structure to see if there were any changes made
                           ;; while we were asleep. Also must replace the ContextLock
                           (|replace| |ContextLock | |of | |context | |with | (CREATE.MONITORLOCK (CONCAT
                                                                                                                                                                     |\\\\name
                                                                                                                                                                  (|fetch| |IconTitle|
                                                                                                                                                                        |of| |context|))))
                           (|\\\verify.structure| |context|)
           |else| ;; This must be an SEdit getting restarted (eg HardReset). Do a verify without refetching
                      (|\\\verify.structure| |context| |nil| T))))
(|\\\\complete|
     (LAMBDA (|context| |charcode| |active?|)
                                                                                                                               ; Edited 6-Apr-88 14:20 by bane
;;; entry point into completing an sedit. called when window is closed or process otherwise dies. active? is T when sedit is to remain active after
   completion, like from the 'complete' command. must grab lock because can be called outside of the command loop (perhaps even as programmer
;;; interface?).
        (WITH.MONITOR (|fetch| |ContextLock | |of | |context|)
                    \\\close.open.node | context |)
                (|if| (AND |active? | (EQMEMB:CLOSE-ON-COMPLETION (|fetch| |EditOptions | |of| |context|)))
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;; if we're supposed to close on completion, but his complete command says we're trying to stay active, then just close the
                        ;; window and return. sedit will notice the window has closed and it will complete normally on the way out.
                         (CLOSEW (|fetch| |DisplayWindow| |of| |context|))
             |else| (|\\\\handle.completion| |context|)
                     (|if| |active?|
                           |then|
                                  ;; if still open then verify structure to get edit date fix. this is a hack. the markaschangedfn doesn't succeed in verifying
                                  ;; because sedit isn't under \\getkey since this command is running, and thus cannot be woken up. if edit dates were
                                  ;; external this could be removed.
                                  (|\\\verify.structure| |context| NIL T)
                                  ;; if we're remaining active, eg ^X, give the tty away. no point in doing this if we're closing, because the process dying
                                  ;; will give it away, and may not have the tty when closing either.
                       |else| (LET ((|window| (|fetch| |DisplayWindow| |of| |context|)))
(WINDOWPROP |window| 'PROCESS NIL)
                                       (|if|
                                           (OPENWP (WINDOWPROP | window | 'ICONWINDOW))
                                           then
                                                   ;; window was shrunk. just let the region manager know, and mark the context so we know to refetch
                                                   ;; when we get restarted
                                                   (SEDIT.SAVE.WINDOW.REGION |context| :SHRINK) (|replace| |ContextLock| |of| |context| |with| :REFETCH)
                                        |else| :: window wasn't shrunk, so context is now dead.
                                                 (SEDIT.SAVE.WINDOW.REGION | context | : CLOSE)
                                                (|\\\disintegrate.context| | context|)))))
           ;; can be called as a command, so must return T
           T)))
(|\\\\sedit|
   (LAMBDA (|context|)
                                                                                          ; Edited 6-Apr-88 15:04 by bane
;;; this is the driver loop. read and process characters until the window is closed, and then exit. The commonlisp printer flgs for atomic printing are
;;; rebound specially here, so global changes won't affect existing contexts. First check to see if the system is trying to restart SEdit on a dead context, ;;; and punt if so.
      (|if| (NEQ (|fetch| |ContextLock| |of| |context|)
                    |Dead|)
           |then|
           ;; this SEdit is okay, or new
           (XCL:WITH-PROFILE
            (|fetch| |Profile| |of| |context|)
(|\|\\setup.context| |context|)
             (|\\\setup.window.and.process| |context|)
             (LET
              ((|lock| (|fetch| |ContextLock| |of| |context|))
(|default.char.handler| (|fetch| |DefaultCharHandler| |of| (|fetch| |Environment| |of| |context|)))
                  command.table (|fetch| |CommandTable | |of| (|fetch| |Environment | |of| |context|)))
                 window| (|fetch| |DisplayWindow| |of| |context|))
promptwindow| (GETPROMPTWINDOW |window|))
              | charcode | command | this.char.escaped | (DECLARE (SPECVARS | this.char.escaped | ) )
              (|while| (OPENWP |window|)
                  |do|
                  ;; if something funny happens (e.g. the window is closed) \awake.command.process will cause \getkey to return NIL. If a menu item ;; is selected, \getkey will return the command form as a list.
                  (|if| (NULL (ERSETQ
                                                                                          ; catch errors at top of loop
                                          (SETQ | charcode | ( | \ \ \ getkey | | context | ))
                                          (WITH.MONITOR | lock |
                                               (|if|
                                                     |charcode|
                                                     |then| (\\CARET.DOWN |window|)
                                                                \\\\selection.down
                                                                                           |context|)
                                                             (lifl
                                                                  (LISTP | charcode | )
                                                                  |then|
                                                                          ;; a command generated externally. the variable command gets used later, so it
                                                                          :; must be set here
                                                                                   command charcode)
                                                                          (SETQ | this.char.escaped | NIL)
                                                                          (|printout| |promptwindow| T)
(APPLY (CAR |command|)
                                                                                   (LIST*
                                                                                            |context | NIL (CDR |command |)))
                                                               |elseif| |this.char.escaped|
                                                                  |then|
                                                                                          ; an escaped char
                                                                          (APPLY* |default.char.handler| |context| |charcode|)
                                                              (SETQ | this.char.escaped | NIL)
|elseif| (AND (OR (SETQ | command | (|\\\lookup.command | | charcode |
                                                                                                                     |command.table|))
                                                                                                                                         (GETSYNTAX
                                                                                     (SETQ | command | ( | \\\lookup.command |
                                                                                                                                            charcode )
                                                                                                                     |command.table|)))
                                                                               (APPLY (CAR | command | ) (LIST* | context | | charcode | (CDR | command | ))))
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|then| ;; this is a valid command or syntax char, and it has already been handled
                                                         |else| ;; none of the above, or else the command didn't want to run. treat as normal input
                                                                (APPLY* |default.char.handler| |context| |charcode|))
                                                       (|if| (OR (NOT | command |)
                                                           (NOT (FMEMB (CAR | command |)

'(|\\\undo| \\\redo|))))

|then| (|replace| |UndoUndoList| |of| |context| |with| NIL)))
                                          ;; unless the user is typing too fast to keep up, fix up the window
                                          |then| ;; on catching of errors, re-update to capture what was undone to run the command, like the current selection
                            (|\\\update| |context| T)))
            ;; exit the loop after the window is closed (or shrunk), and thus it's complete time.
             (|\\\\complete| | context|)))))
(|\\\\handle.completion|
  ; Edited 5-Apr-88 16:15 by bane
                                                (LISTP | fn |)
|then| (CAR | fn |)
                                              |else| |fn|)
                                                    context (|fetch| |Structure | |of| (|\\\subnode | 1 (|fetch| |Root|
                                                                                                                       |of| |context|)))
                                                     (CDR (LISTP | fn | ))))))
                (|replace| |ChangedStructure?| |Of| |context | |with| NIL))
|UndoList | |Of| |context | |with| NIL)
|UndoUndoList | |Of| |context | |with| NIL)))
     (|replace|
)
(PUTPROPS SEDIT-PATCH COPYRIGHT ("Venue & Xerox Corporation" 1988 1990))
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