```
15-Aug-90 11:05:53 {PELE:MV:ENVOS}<LISPCORE>LIBRARY>UNIXCHAT.;3
 File created:
  changes to:
                (VARS UNIXCHATCOMS)
previous date:
               13-Jun-90 01:05:35 {PELE:MV:ENVOS}<LTSPCORE>LTBRARY>UNIXCHAT.:2
 Read Table:
               INTERLISP
    Package:
               INTERLISP
       Format:
                 XCCS
;; Copyright (c) 1989, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ UNIXCHATCOMS
        ^{(};; A Chat "protocol" that handles 1 host: SHELL, by opening a pty & fork to a csh.
         (FILES UNIXCOMM CHAT)
         (DECLARE%: EVAL@COMPILE DONTCOPY (FILES (LOADCOMP)
                                                       UNIXCOMM CHATDECLS))
               ;; Tell Chat about us: give host filter & opening fn.
                (FNS UNIX.HOST.FILTER UNIXCHAT.OPEN)
                (ADDVARS (CHAT.PROTOCOLTYPES (SHELL . UNIX.HOST.FILTER))
(CHAT.HOST.TO.PROTOCOL (SHELL . SHELL)))
                ;; make the BS key send DEL when talking to shell
                (ALISTS (CHAT.HOSTINFO SHELL)))
         (COMS
                                                                          ; pseudo ostype for Shell. Not sure if this is still needed. Make
                                                                          ; sure it survives logout
                (ADDVARS (NETWORKOSTYPES (SHELL . SHELL)))
                (PROP VARTYPE SYSTEMINITVARS)
                (ALISTS (SYSTEMINITVARS NETWORKOSTYPES)))
         (COMS
                                                                          ; telling unix about terminal
                (FNS UNIX.SENDSCREENPARAMS UNIX.SETDISPLAYTYPE LISP-TO-UNIX-TERMTYPE UNIX.PARAMS.CONFIRM)
                (INITVARS (CHAT.TO.UNIX.TERMINALS)
                        (UNIXCHAT.NOTICE.RESHAPE 'ASK)
                        (UNIXCHAT.TSET.DELAY 2000))
                (GLOBALVARS CHAT.TO.UNIX.TERMINALS UNIXCHAT.NOTICE.RESHAPE))
         (VARS (CHAT.ALLHOSTS (SORT (UNION ' (SHELL)
                                               CHAT.ALLHOSTS)
                                        (FUNCTION UALPHORDER)))
                (CHAT.HOSTMENU))))
;; A Chat "protocol" that handles 1 host: SHELL, by opening a pty & fork to a csh.
(FILESLOAD UNIXCOMM CHAT)
(DECLARE%: EVAL@COMPILE DONTCOPY
(FILESLOAD (LOADCOMP)
        UNIXCOMM CHATDECLS)
;; Tell Chat about us: give host filter & opening fn.
(DEFINEO
(UNIX.HOST.FILTER
                                                                          ; Edited 13-Apr-89 17:18 by bvm
  [LAMBDA (HOST)
     (if (AND (EQ \MACHINETYPE \MAIKO)
              (STRING.EQUAL HOST "SHELL"))
         then '(SHELL UNIXCHAT.OPEN])
(UNIXCHAT.OPEN
                                                                          ; Edited 15-Feb-90 15:01 by bvm
  [LAMBDA (HOST TERMTYPE)
    ;; Return input and output sides of a stream connection to the "host" SHELL.
     (AND (EQ \MACHINETYPE \MAIKO)
          (LET ((STR (CREATE-SHELL-STREAM TERMTYPE)))
                                                                          ; Tell chat that no login is necessary
                (LIST STR STR 'LOGOPTION 'NONE])
(ADDTOVAR CHAT.PROTOCOLTYPES (SHELL . UNIX.HOST.FILTER))
(ADDTOVAR CHAT.HOST.TO.PROTOCOL (SHELL . SHELL))
;; make the BS key send DEL when talking to shell
(ADDTOVAR CHAT.HOSTINFO [SHELL : KEYACTIONS ((BS (127 127])
```

```
;; pseudo ostype for Shell. Not sure if this is still needed. Make sure it survives logout
(ADDTOVAR NETWORKOSTYPES (SHELL . SHELL))
(PUTPROPS SYSTEMINITVARS VARTYPE ALIST)
(ADDTOVAR SYSTEMINITVARS (NETWORKOSTYPES (SHELL . SHELL)))
;; telling unix about terminal
(DEFINEO
(UNIX.SENDSCREENPARAMS
  [LAMBDA (STREAM HEIGHT WIDTH ASK)
                                                                          ; Edited 14-Feb-90 14:14 by bvm
     (if (SUBRCALL UNIX-HANDLECOMM 8)
         then
                                                                          ; It's implemented right
              [LET ((CONN (UNIX-CHANNEL STREAM)))
                    (AND CONN (SUBRCALL UNIX-HANDLECOMM 10 (\DTEST CONN 'SMALLP)
                                        (\DTEST HEIGHT 'SMALLP)
                                        (\DTEST WIDTH 'SMALLP]
      elseif (if ASK
                 then (UNIX.PARAMS.CONFIRM STREAM "size")
               elseif (STREAMPROP STREAM 'UNIXWINDOWSIZE (CONS WIDTH HEIGHT))
                                                                           ; Not the first time, so spawn a process to handle the interaction
                       (ADD.PROCESS \(\text{(UNIX.SENDSCREENPARAMS ', STREAM ', HEIGHT ', WIDTH T)}\)
                      NIL
               else
                                                                          ; First time, do it!
                    T)
         then (CL:FORMAT STREAM "stty rows ~D columns ~D~%%" HEIGHT WIDTH])
(UNIX.SETDISPLAYTYPE
  [LAMBDA (STREAM CODE NAME ASK)
                                                                          ; Edited 14-Feb-90 15:27 by bvm
    (LET (OLDTYPE)
          (if (AND NAME (if (SETQ OLDTYPE (STREAMPROP STREAM 'UNIXTERMTYPE))
                                                                          ; Not the first time
                              then
                                      ASK
                                        then (UNIX.PARAMS.CONFIRM STREAM "type")
                                          ; spawn a proc so we don't tie up the typeout proc (ADD.PROCESS `(UNIX.SETDISPLAYTYPE ', STREAM NIL ', NAME T))
                                     else
                                          NIL)
                           elseif (SUBRCALL UNIX-HANDLECOMM 8)
                              then (STREAMPROP STREAM 'UNIXTERMTYPE NAME)
                                                                          ; The open shell stream already told it the type, so just note it
                                                                          : now
                                   NIL
                           else
                                                                          ; First time, do it!
                                T))
               then [if (NOT OLDTYPE)
                             :: On the very first call, wait until there's some output. Newer chats do this before opening the stream, which is a big
                              ;; improvement. This is actually a race here with chat.typeout
                              (LET [(TIMER (SETUPTIMER 15000))
                                     (WINDOW (PROCESSPROP (THIS.PROCESS)
                                                      'WINDOW]
                                    (if [AND WINDOW (SETQ WINDOW (WINDOWPROP WINDOW 'CHATSTATE]
                                    then (replace (CHAT.STATE HELD) of WINDOW with T))
(until (OR (READP STREAM)
                                               (TIMEREXPIRED? TIMER))
                                       do (BLOCK))
                                    (if WINDOW
                                        then (replace (CHAT.STATE HELD) of WINDOW with NIL)
                                              (DISMISS UNIXCHAT.TSET.DELAY)
                    (CL:FORMAT STREAM "set noglob; eval 'tset ~@[-e^~A ~]-srIQ ~A'; set glob~%%"
                            [AND (NULL OLDTYPE)
                                        [(BS (CAAR (KEYACTION 'BS]
(if (EQ BS 127)
then "?"
                                  (LET
                            else (CL:CODE-CHAR (LOGOR BS (CHARCODE "@"] (LISP-TO-UNIX-TERMTYPE NAME))
                    (STREAMPROP STREAM 'UNIXTERMTYPE NAME))
(LISP-TO-UNIX-TERMTYPE
   [LAMBDA (TERMTYPE)
                                                                          ; Edited 14-Feb-90 14:20 by bvm
     (OR (CDR (ASSOC TERMTYPE CHAT.TO.UNIX.TERMINALS))
         (CL:STRING-DOWNCASE TERMTYPE])
(UNIX.PARAMS.CONFIRM
                                                                          ; Edited 31-Jan-90 16:00 by bvm
  [LAMBDA (STREAM TYPE)
     (CASE UNIXCHAT.NOTICE.RESHAPE
         ((T) T)
         (ASK (EQ (MENU (create MENU
                                  ITEMS _ '(("Stuff shell command to adjust terminal parms" T "Chat will inject a
                                                      command to set the terminal parameters.
```

You must be talking to a shell prompt for this to work.

(FUNCTION UALPHORDER)))

(PUTPROPS UNIXCHAT COPYRIGHT ("Venue & Xerox Corporation" 1989 1990))

(RPAQQ CHAT.HOSTMENU NIL)

(MEDLEY)UNIXCHAT.;1 28-Jun-2024 18:34:03Listed on 30-Jun-2024 13:13:31 --

	FUNCTION	ON INDEX	
LISP-TO-UNIX-TERMTYPE UNIX.HOST.FILTER			NIX.SETDISPLAYTYPE2 NIXCHAT.OPEN
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SYSTEMINITVARS2			