

File created: 5-Oct-89 11:00:18 {ICE}<DENBER>LISP>LYRIC>DIALPHONE.;6

changes to: (FNS DIALPHONE)  
(VARS DIALPHONECOMS)

previous date: 24-Jul-89 15:27:55 {ICE}<DENBER>LISP>LYRIC>DIALPHONE.;5

Read Table: XCL

Package: INTERLISP

Format: XCCS

```
(RPAQQ DIALPHONECOMS ((FNS DIALPHONE)
  (INITVARS (DIALHISTSIZE 10)
    (DIALITEMS)
    (DIALMENU)
    (DIALPREFIX "ATDT")
    (DIALSUFFIX (CHARACTER 13))
    (LASTNUMBERDIALED)
    (PHONEBILLNUMBER))
  (BITMAPS PHONEMAP)))
```

(DEFINEQ

(DIALPHONE

(LAMBDA (NUMBER DMENU BUTTON)

; Edited 5-Oct-89 10:52 by MJD

;; Phone dialing program for Hayes-compatible modems on the RS-232 port. Creates a global var. DIALMENU (which it tries to attach to an  
;; AddressBook window), and uses global strings PHONEBILLNUMBER - your local extension, and LASTNUMBERDIALED. Prompts for a  
;; number from the user if NUMBER is not provided.

```
(NLSETQ (PROG ((ATOZ ' (A B C D E F G H I J K L M N O P Q R S T U V W X Y Z))
  MODEMLST MODEMSTR RS232STREAM DIALWINDOW)
  (|if| (AND (NOT NUMBER)
    (NOT DIALMENU))
    |then|
      ;; 1st-time-only initializations (also skip this if the first call is programmatic):
      ;; Note - no error checking:
      (OR PHONEBILLNUMBER (SETQ PHONEBILLNUMBER (PROMPTFORWORD "What is your extension
        number?" NIL NIL PROMPTWINDOW)))
      (OR PHONEBILLNUMBER (SETQ PHONEBILLNUMBER ""))
      (SETQ DIALMENU (|create| MENU
        ITEMS _ (LIST (LIST (EVAL PHONEMAP)
          NIL "Dials a phone number.))
        MENUOUTLINESIZE _ 2
        MENUFONT _ (FONTCREATE 'HELVETICA 12 'BOLD)
        WHENSELECTEDFN _ 'DIALPHONE))
      (SETQ DIALWINDOW (|for| W |in| (OPENWINDOWS) |when| (EQ (WINDOWPROP W 'TITLE)
        ' |Address Book|)
        |do| (RETURN W)))
      (|if| (NOT DIALWINDOW)
        |then| (PRINTOUT T "I couldn't find an AddressBook window to attach the Dial menu.
          Click left in the window you want it attached to, or in the
          Background to make a free-standing menu.")
          (UNTILMOUSESTATE LEFT)
          (SETQ DIALWINDOW (WHICHW)))
      (|if| DIALWINDOW
        |then| (ATTACHMENU DIALMENU DIALWINDOW 'TOP 'LEFT)
        |else| (ADDMENU DIALMENU))
      (RETURN DIALWINDOW))

;; The NLSETQ keeps this from breaking if the modem is already in use:
(SETQ RS232STREAM (OPENSTREAM '{RS232} 'OUTPUT))
(SETQ LASTNUMBERDIALED
  (|if| (NUMBERP (MKATOM NUMBER))
    |then|
      ;; We were invoked programmatically:
      NUMBER
    |else|
      ;; Called from menu, so get a number to dial:
      (|if| (EQ BUTTON 'LEFT)
        |then|
          ;; Wants to type it in:
          (PROMPTFORWORD "Number please:" LASTNUMBERDIALED NIL PROMPTWINDOW)
        |else|
          ;; Wants to select from history list:
          (MENU (|create| MENU
            ITEMS _ DIALITEMS
            TITLE _ "Number please:")))))

(|if| (NOT LASTNUMBERDIALED)
  |then|
    ;; Didn't give a number, so wrap it up right here:
    (CLOSEF RS232STREAM)
    (SETQ LASTNUMBERDIALED "") ; So it won't print "NIL" next time.
    (PRINTOUT PROMPTWINDOW "...aborted." T)
    (RETURN NIL))
(|push| DIALITEMS LASTNUMBERDIALED) ; Add to history list.
```

```

(|if| (GREATERP (LENGTH DIALITEMS)
  DIALHISTSIZE)
|then|
  (CL:NBUPTLAST DIALITEMS 1))
(SETQ MODEMSTR (CONCAT LASTNUMBERDIALED))
(|if| (INTERSECTION (UNPACK MODEMSTR)
  (APPEND ATOZ (L-CASE ATOZ))))
|then| ;; It's got letters! Turn them into numbers:
  (SETQ MODEMLST (UNPACK MODEMSTR))
  (|for| N |from| 2 |to| 9 |as| GROUP |in| ' ((A B C)
    (D E F)
    (G H I)
    (J K L)
    (M N O)
    (P R S)
    (T U V)
    (W X Y))
    |do| (|for| LETTER |in| GROUP |do| (DSUBST N LETTER MODEMLST)))
  (SETQ MODEMSTR (CONCATLIST MODEMLST))
(SETQ MODEMSTR (|if| (ILEQ (NCHARS MODEMSTR)
  5)
|then| ;; Just another extension:
  (CONCAT MODEMSTR ", ")
|else| (|if| (ILEQ (NCHARS MODEMSTR)
  8)
|then| ;; It's a local call (7 digits +optional "-"), so dial 9 first:
  (CONCAT "9" MODEMSTR)
|else| ;; Long distance, so dial 8 first and add local no. for billing:
  (|if| (STRING-EQUAL (SUBSTRING MODEMSTR 1 2)
    "8*")
|then| ;; It's an Intelnet number:
  (CONCAT (RPLSTRING MODEMSTR 1 "8," )
    ", " PHONEBILLNUMBER)
|else| ;; It's outside:
  (CONCAT "8," MODEMSTR ", " PHONEBILLNUMBER))))))

;; Dial the number and hang up:
(PRIN1 (CONCAT DIALPREFIX MODEMSTR ";H0" DIALSUFFIX)
  RS232STREAM)
(PRINTOUT PROMPTWINDOW "...dialing...")
(FORCEOUTPUT RS232STREAM)
(CLOSEF RS232STREAM)
(PRINTOUT PROMPTWINDOW "OK" T)
(RETURN LASTNUMBERDIALED)))

)

(RPAQ? DIALHISTSIZE 10)

(RPAQ? DIALITEMS )

(RPAQ? DIALMENU )

(RPAQ? DIALPREFIX "ATDT")

(RPAQ? DIALSUFFIX (CHARACTER 13))

(RPAQ? LASTNUMBERDIALED )

(RPAQ? PHONEBILLNUMBER )

(RPAQ? PHONEMAP
  
  )

```

; Ensure buffer is dumped.  
; Cleanup & exit.

FUNCTION INDEX

DIALPHONE .....1

VARIABLE INDEX

DIALHISTSIZE .....2	DIALMENU .....2	DIALSUFFIX .....2	PHONEBILLNUMBER .....2
DIALITEMS .....2	DIALPREFIX .....2	LASTNUMBERDIALED .....2	PHONEMAP .....2