```
13-Jun-90 01:19:15 {DSK}<usr>local>lde>lispcore>library>VT100KP.;2
 File created:
  changes to:
                 (VARS VT100KPCOMS)
previous date:
                 7-Dec-87 15:46:07 {DSK}<usr>local>lde>lispcore>library>VT100KP.;1
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                  XCCS
"Copyright (c) 1985, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ VT100KPCOMS
        ((FNS BOTTOMHALFREGION BOXKEYPAD GETEDTKEYPAD GETKEYPAD GRIDBOXREGION INVERTPRINT KPCHARFROMXY
               TOPHALFREGION VT100KPCODE VT100KPFN VTCHAT.KPAPPLMODE)
          (BITMAPS KPARROWSBM)
          (ARRAY KPCHARARRAY)
          (VARS EDTKPH EDTKPHI)
          (ADDVARS (CHATMENUITEMS ("VT100 Keypad" (GETKEYPAD)
                                               "Brings up a VT100 keypad")))
         ;; Nuke CHATMENU so CHATMENUITEMS will reflect this change
          (VARS CHATMENU)))
(DEFINEO
(BOTTOMHALFREGION
   [LAMBDA (REGION)
                                                                              (* ejs%: "19-APR-83 12:13")
            (* * Function to return upper half of a region)
     (create REGION
             LEFT _ (fetch (REGION LEFT) of REGION)
WIDTH _ (fetch (REGION WIDTH) of REGION)
HEIGHT _ (LRSH (fetch (REGION HEIGHT) of REGION)
             BOTTOM _ (fetch (REGION BOTTOM) of REGION])
(BOXKEYPAD
                                                                              (* ejs%: "19-APR-83 13:41")
   [LAMBDA (WINDOW GRIDSPEC)
            (* * Box the VT100 keypad)
     (PROG (TY TX)
            (for y from 2 to 5 do (SETQ TY (BOTTOMOFGRIDCOORD Y GRIDSPEC))
(DRAWLINE 0 TY 168 TY 1 'REPLACE WINDOW))
            (SETQ TY (BOTTOMOFGRIDCOORD 1 GRIDSPEC))
            (DRAWLINE 0 TY (LEFTOFGRIDCOORD 3 GRIDSPEC)
TY 1 'REPLACE WINDOW)
            (SETQ TX (LEFTOFGRIDCOORD 1 GRIDSPEC))
(DRAWLINE TX (BOTTOMOFGRIDCOORD 1 GRIDSPEC)
TX 248 1 'REPLACE WINDOW)
            (SETQ TX (LEFTOFGRIDCOORD 2 GRIDSPEC))
(DRAWLINE TX 0 TX 248 1 'REPLACE WINDOW)
            (SETQ TX (LEFTOFGRIDCOORD 3 GRIDSPEC))
            (DRAWLINE TX 0 TX 248 1 'REPLACE WINDOW])
(GETEDTKEYPAD
                                                                              (* ejs%: "19-APR-83 14:16")
   [LAMBDA (WINDOW)
            (* * Function to make an EDT keypad)
     (PROG ((GRIDSPEC (create REGION
                                         1
                                 BOTTOM _ 1
WIDTH _ 40
HEIGHT _ 40
             [FONT (FONTCREATE '(HELVETICA 8]
             TMP TMP1 BR)
            (CLEARW WINDOW)
            (DSPFONT FONT WINDOW)
            (for label in edtkph do (centerprintinregion (car label)
                                                (TOPHALFREGION (GRIDBOXREGION (CAADR LABEL)
                                                                            (CDADR LABEL)
                                                                            GRIDSPEC))
                                                WINDOW))
            (CENTERPRINTINREGION "Line" [TOPHALFREGION (SETQ TMP (UNIONREGIONS (GRIDBOXREGION 0 0 GRIDSPEC)
                                                                                       (GRIDBOXREGION 1 0 GRIDSPEC)
                    WINDOW)
            (CENTERPRINTINREGION "Enter" [TOPHALFREGION (SETQ TMP1 (UNIONREGIONS (GRIDBOXREGION 3 0 GRIDSPEC)
                                                                                         (GRIDBOXREGION 3 1 GRIDSPEC]
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WINDOW)
           (CENTERPRINTINREGION "Help" (GRIDBOXREGION 1 4 GRIDSPEC)
                  WINDOW)
           (INVERTPRINT (WINDOWPROP WINDOW 'DSP)
           (for LABEL in EDTKPHI do (SETQ BR (BOTTOMHALFREGION (GRIDBOXREGION (CAADR LABEL)
                                                                             (CDADR LABEL)
                                                                             GRIDSPEC)))
                                     [BITBLT WINDOW NIL NIL WINDOW NIL NIL NIL NIL 'INVERT 'REPLACE NIL
                                             (create REGION
                                                    LEFT _ (IPLUS (fetch (REGION LEFT) of BR)
                                                                    1)
                                                    BOTTOM (IPLUS (LRSH (IDIFFERENCE (fetch (REGION HEIGHT)
                                                                                              of BR)
                                                                                     (FONTPROP FONT 'HEIGHT))
                                                                      (fetch (REGION BOTTOM) of BR))
                                                    WIDTH _ (IDIFFERENCE (fetch (REGION WIDTH) of BR)
                                                                     2)
                                                    HETGHT
                                                              (FONTPROP FONT 'HEIGHT]
                                     (CENTERPRINTINREGION (CAR LABEL)
                                            BR WINDOW))
           (SETQ BR (BOTTOMHALFREGION TMP))
          [BITBLT WINDOW NIL NIL WINDOW NIL NIL NIL NIL 'INVERT 'REPLACE NIL
                  (create REGION
                          LEFT _ (ADD1 (fetch (REGION LEFT) of BR))
BOTTOM _ (IPLUS (fetch (REGION BOTTOM) of BR)
                                            (LRSH (IDIFFERENCE (fetch (REGION HEIGHT) of BR)
                                                          (FONTPROP FONT 'HEIGHT))
                                                  1))
                          WIDTH _ (IDIFFERENCE (fetch (REGION WIDTH) of BR)
           HEIGHT _ (FONTPROP FONT 'HEIG
(CENTERPRINTINREGION "Open Line" BR WINDOW)
                                   (FONTPROP FONT 'HEIGHT]
           (SETQ BR (BOTTOMHALFREGION TMP1))
           [BITBLT WINDOW NIL NIL WINDOW NIL NIL NIL NIL 'INVERT 'REPLACE NIL
                  (create REGION
                          LEFT _ (ADD1 (fetch (REGION LEFT) of BR))
BOTTOM _ (IPLUS (fetch (REGION BOTTOM) of BR)
                                            (LRSH (IDIFFERENCE (fetch (REGION HEIGHT) of BR)
                                                          (FONTPROP FONT 'HEIGHT))
                          WIDTH _ (IDIFFERENCE (fetch (REGION WIDTH) of BR)
                                          2)
           HEIGHT _ (FONTPROP FONT (CENTERPRINTINREGION "Subs" BR WINDOW)
                                   (FONTPROP FONT 'HEIGHT]
           (SETQ BR (GRIDBOXREGION 0 4 GRIDSPEC))
           (BITBLT WINDOW NIL NIL WINDOW NIL NIL NIL 'INVERT 'REPLACE NIL (Create REGION
                                                                                             LEFT
                                                                                             (IPLUS (fetch (REGION LEFT)
                                                                                                       of BR)
                                                                                                    2)
                                                                                            BOTTOM
                                                                                             (IPLUS (fetch (REGION BOTTOM)
                                                                                                       of BR)
                                                                                                    2)
                                                                                            WIDTH
                                                                                             (IDIFFERENCE
                                                                                              (fetch (REGION WIDTH)
                                                                                                 of BR)
                                                                                              4)
                                                                                             HEIGHT
                                                                                             (IDIFFERENCE
                                                                                              (fetch (REGION HEIGHT)
                                                                                                 of BR)
                                                                                              4)))
            CENTERPRINTINREGION "Gold" BR WINDOW)
           (INVERTPRINT (WINDOWPROP WINDOW 'DSP)
                  NIL)
           (BITBLT KPARROWSBM 0 0 WINDOW (LEFTOFGRIDCOORD 0 GRIDSPEC)
                  (BOTTOMOFGRIDCOORD 5 GRIDSPEC)
                  NIL NIL 'INPUT 'REPLACE)
           (BOXKEYPAD WINDOW GRIDSPEC])
(GETKEYPAD
  [LAMBDA (WINDOW)
                                                                       (* ejs%: "13-May-85 16:27")
           (* * Function to return a window containing a VT100 keypad)
    (PROG [GRIDSPEC [BFONT (FONTCREATE ' (HELVETICA 18 BRR]
                  [LFONT (FONTCREATE ' (HELVETICA 10 BRR]
                  (KPWINDOW (OR WINDOW (LET [(POS (GETBOXPOSITION (WIDTHIFWINDOW 160)
                                                              (HEIGHTIFWINDOW 240 T]
                                               (CREATEW (create REGION
                                                                        (fetch (POSITION XCOORD) of POS)
                                                                 LEFT
                                                                 BOTTOM _ (fetch (POSITION YCOORD) of POS)
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WIDTH _ (WIDTHIFWINDOW 160)
                                                                  HEIGHT _ (HEIGHTIFWINDOW 240 T))
                                                        "VT100 Keypad"]
           (GRID (SETQ GRIDSPEC (create REGION
                                           BOTTOM _ 1
                                           WIDTH _ 40
                                           HEIGHT _ 40))
                 4 6 0 KPWINDOW)
           (CLEARW KPWINDOW)
           (DSPFONT BFONT KPWINDOW)
           (for J from 0 to 2 do (for I from 1 to 3 do (CENTERPRINTINREGION (MKSTRING (IPLUS (ITIMES J 3)
                                                                                                     I))
                                                                  (GRIDBOXREGION (SUB1 I)
                                                                          (ADD1 J)
                                                                          GRIDSPEC)
                                                                  KPWINDOW)))
           (CENTERPRINTINREGION "0" (UNIONREGIONS (GRIDBOXREGION 0 0 GRIDSPEC)
                                               (GRIDBOXREGION 1 0 GRIDSPEC))
                  KPWINDOW)
           (CENTERPRINTINREGION "--" (GRIDBOXREGION 3 3 GRIDSPEC)
                  KPWINDOW)
           (CENTERPRINTINGEGION "." (GRIDBOXREGION 2 0 GRIDSPEC)
                  KPWINDOW)
           (CENTERPRINTINGEGION "," (GRIDBOXREGION 3 2 GRIDSPEC)
                  KPWINDOW)
           (DSPFONT LFONT KPWINDOW)
           (for I from 0 to 3 do (CENTERPRINTINREGION (CONCAT "PF" (ADD1 I))
                                          (GRIDBOXREGION I 4 GRIDSPEC)
                                          KPWINDOW))
           (CENTERPRINTINREGION "ENTER" (UNIONREGIONS (GRIDBOXREGION 3 0 GRIDSPEC) (GRIDBOXREGION 3 1 GRIDSPEC))
                  KPWINDOW)
           (BITBLT KPARROWSBM 0 0 KPWINDOW (LEFTOFGRIDCOORD 0 GRIDSPEC)
                   (BOTTOMOFGRIDCOORD 5 GRIDSPEC)
                   NIL NIL 'INPUT 'REPLACE)
           (OR WINDOW (WINDOWPROP KPWINDOW 'BUTTONEVENTFN 'VT100KPFN))
           (BOXKEYPAD KPWINDOW GRIDSPEC])
(GRIDBOXREGION
  [LAMBDA (GRIDX GRIDY GRIDSPEC)
                                                                         (* ejs%: "18-APR-83 09:53")
           (* * Function to return the source system region of a grid box)
    (create REGION
                   (LEFTOFGRIDCOORD GRIDX GRIDSPEC)
            LEFT
            BOTTOM _ (BOTTOMOFGRIDCOORD GRIDY GRIDSPEC)
           WIDTH _ (fetch (REGION WIDTH) of GRIDSPEC)
HEIGHT _ (fetch (REGION HEIGHT) of GRIDSPEC])
(INVERTPRINT
                                                                         (* ejs%: "19-APR-83 13:18")
  [LAMBDA (DSP FLG)
    (COND
        (FLG (DSPSOURCETYPE 'INVERT DSP))
        (T (DSPSOURCETYPE 'INPUT DSP])
(KPCHARFROMXY
  [LAMBDA (X Y)
                                                                         (* ejs%: "19-APR-83 14:17")
           (* * Function to convert a mouse click to a VT100 keypad character)
    (PROG ((GRIDSPEC (create REGION
                               LEFT
           BOTTOM _ 1
WIDTH _ 40
HEIGHT _ 40)))
(RETURN (ELT KPCHARARRAY (IPLUS (GRIDXCOORD X GRIDSPEC)
                                                (ITIMES 4 (GRIDYCOORD Y GRIDSPEC])
(TOPHALFREGION
                                                                         (* ejs%: "19-APR-83 12:13")
  [LAMBDA (REGION)
           (* * Function to return upper half of a region)
    (create REGION
           LEFT _ (fetch (REGION LEFT) of REGION)
WIDTH _ (fetch (REGION WIDTH) of REGION)
            HEIGHT _ (LRSH (fetch (REGION HEIGHT) of REGION)
                             1)
            BOTTOM _ (IPLUS (fetch (REGION BOTTOM) of REGION)
                              (LRSH (fetch (REGION HEIGHT) of REGION)
                                     11)
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```
(VT100KPCODE
  [LAMBDA (CHAT.STATE VT100.STATE VALUE)
                                                                                 (* ejs%: "13-May-85 16:29")
            (* * Function to return string for keypad hit)
    (PROG ((KPMODE (fetch (VT100.STATE KEYPADMODE) of VT100.STATE))
             (CMODE (fetch (VT100.STATE CURSORMODE) of VT100.STATE)))
            (RETURN (COND
                          [(FMEMB VALUE '(UP DOWN LEFT RIGHT))
                           (COND
                               (CMODE (SELECTQ VALUE
(UP "ŸOA")
                                             (DOWN "ŸOB")
(RIGHT "ŸOC")
                                             (LEFT "ŸOD")
                               (T (SELECTQ VALUE
(UP "Ÿ[A")
(DOWN "Ÿ[B")
(RIGHT "Ÿ[C")
                                        (LEFT "Ÿ[D")
                          (T (COND
                                  (KPMODE (SELECTQ VALUE
(0 "ŸOp")
(1 "ŸOq")
                                                 (2 "ŸOr")
                                                 (3 "ŸOs")
                                                 (4 "ŸOt")
                                                 (5 "ŸOu")
                                                 (6 "ŸOv")
                                                 (7 "ŸOw")
                                                 (8 "ŸOx")
                                                 (9 "ŸOy")
                                                 (%, "ŸOn")
(%, "ŸOn")
                                                 (ENTER "ŸOM")
                                                 (PF1 "ŸOP")
(PF2 "ŸOQ")
(PF3 "ŸOR")
                                                 (PF4 "ŸOS")
                                  (T (SELECTO VALUE
(0 "0")
(1 "1")
                                           (2 "2")
                                           (3 "3")
                                           (4 "4")
                                           (5 "5")
                                           (6 "6")
(7 "7")
                                           (8 "8")
                                           (9 "9")
                                           (- "-")
                                           (%. ".")
(%, ",")
(ENTER "
                                           (PF1 "ŸOP")
                                           (PF2 "ŸOQ")
                                           (PF3 "ŸOR")
                                           (PF4 "ŸOS")
                                           ""])
(VT100KPFN
  [LAMBDA (WINDOW)
                                                                                 (* ejs%: "18-Nov-85 14:15")
    (PROG ((X (LASTMOUSEX WINDOW))
              (Y (LASTMOUSEY WINDOW))
             (GRIDSPEC (create REGION
                                  LEFT .
                                  BOTTOM _ 0
WIDTH _ 40
             HEIGHT _ 40))
(CHAT.STATE (WINDOWPROP (PROCESS.WINDOW (TTY.PROCESS))
                                     'CHATSTATE))
             VT100.STATE REGION VALUE GX GY)
            (COND
                ((MOUSESTATE UP)
                 (RETURN))
                ((NOT (INSIDEP (DSPCLIPPINGREGION NIL WINDOW)
                                X Y))
                 (MENU (create MENU
                                 ITEMS _ '(("EDT Keypad" (GETEDTKEYPAD WINDOW)
```

"Put up an EDT Keypad")

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("Plain Keypad" (GETKEYPAD WINDOW)
                                                                "Put up a Plain keypad"))
                                      CENTERFLG _ T))
                    (RETURN)))
              (COND
                  [(type? CHAT.STATE CHAT.STATE)
                    (SETQ VT100.STATE (fetch (CHAT.STATE TERM.STATE) of CHAT.STATE))
                        ((NOT (type? VT100.STATE VT100.STATE))
                          (RETURN]
                  (T (RETURN)))
              (SETQ GX (GRIDXCOORD X GRIDSPEC))
(SETQ GY (GRIDYCOORD Y GRIDSPEC))
              [SETQ REGION (COND
                                     ((OR (AND (EQ GX 0)
                                                    (EQ GY 0))
                                             (AND (EO GX 1)
                                                    (EQ GY 0)))
                                       (UNIONREGIONS (GRIDBOXREGION 0 0 GRIDSPEC)
                                                 (GRIDBOXREGION 1 0 GRIDSPEC)))
                                     ((OR (AND (EQ GX 3)
                                                    (EQ GY 0))
                                             (AND (EQ GX 3)
                                     (EQ GY 1)))

(UNIONREGIONS (GRIDBOXREGION 3 0 GRIDSPEC)

(GRIDBOXREGION 3 1 GRIDSPEC)))

(T (GRIDBOXREGION GX GY GRIDSPEC]
              (BITBLT WINDOW NIL NIL WINDOW NIL NIL NIL 'INVERT 'REPLACE NIL REGION)
              (SETQ VALUE (KPCHARFROMXY X Y))
              (UNTILMOUSESTATE UP)
              (BITBLT WINDOW NIL NIL WINDOW NIL NIL NIL 'INVERT 'REPLACE NIL REGION) (BKSYSBUF (VT100KPCODE CHAT.STATE VT100.STATE VALUE])
(VTCHAT.KPAPPLMODE
  [LAMBDA (CHAT.STATE VT100.STATE FLG)
                                                                                             (* ejs%: "13-May-85 16:08")
              (* * Set or reset keypad application mode)
     (replace (VT100.STATE KEYPADMODE) of VT100.STATE with FLG])
(RPAQQ KPARROWSBM
(RPAO KPCHARARRAY
        (READARRAY-FROM-LIST 24 'POINTER 0
                  '(0 0 %. ENTER 1 2 3 ENTER 4 5 6 %, 7 8 9 - PF1 PF2 PF3 PF4 UP DOWN LEFT RIGHT NIL)))
(RPAQQ EDTKPH
         ("Select" (2 . 0))
("Word" (0 . 1))
("Eol" (1 . 1))
("Char" (2 . 1))
("Advance" (0 . 2))
           ("Advance" (U . 2, ("Backup" (1 . 2)) ("Cut" (2 . 2)) ("Del C" (3 . 2))
           ("Page" (0 . 3))
("Sect" (1 . 3))
           ("Append" (2 . 3))
           ("Del W" (3 . 3))
("Fndnxt" (2 . 4))
("Del L" (3 . 4)))
(RPAQQ EDTKPHI
         EDIKPHI
(("Reset" (2 . 0))
("Case" (0 . 1))
("Del Eol" (1 . 1))
("Specins" (2 . 1))
("Bottom" (0 . 2))
("Top" (1 . 2))
("Paste" (2 . 2))
("Und C" (3 . 2))
("Cmnd" (0 . 3))
           ("Cmnd" (0 . 3))
("Fill" (1 . 3))
("Replace" (2 . 3))
("Und W" (3 . 3))
           ("Find" (2 . 4))
("Und L" (3 . 4))))
(ADDTOVAR CHATMENUITEMS ("VT100 Keypad" (GETKEYPAD)
                                               "Brings up a VT100 keypad"))
```

;; Nuke CHATMENU so CHATMENUITEMS will reflect this change

(RPAQQ CHATMENU NIL)

(PUTPROPS **VT100KP COPYRIGHT** ("Venue & Xerox Corporation" 1985 1987 1990))

{MEDLEY}library>VT100KP.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:13:32 --

FUNCTIO	N INDEX
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BOXKEYPAD1		KPCHARFROMXY					

VARIABLE INDEX

CHAITIBIO CHAITIBIOTIBIO .5 IDINII IDINII KIAKOWODA KICHAUKUTI .	CHATMENU6	CHATMENUITEMS .5	EDTKPH5	EDTKPHI5	KPARROWSBM5	KPCHARARRAY5
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