

File created: 22-Jul-85 13:26:35 {DSK}<LISPPFILES>UTILITIES>VARBROWSER.;2

changes to: (FNS VARBROWSER VB.CREATE-LIST-OF-EQ-WIDTH-MENUS VB.CREATE-ICON-WINDOW)
(VARS VARBROWSERCOMS VB.MASK VB.ICON)

previous date: 16-Jul-85 13:22:23 {DSK}<LISPPFILES>UTILITIES>VARBROWSER.;1

Read Table: OLD-INTERLISP-FILE

Package: INTERLISP

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(RPAQQ **VARBROWSERCOMS** ((FNS VARBROWSER VB.CREATE-ICON-WINDOW VB.CREATE-LIST-OF-EQ-WIDTH-MENUS
VB.UPDATE-ALL-MENUS VB.UPDATE-MENU)
(VARS VB.ICON VB.MASK)))

(DEFINEQ

(VARBROWSER

```
[LAMBDA (LIST-OF-VAR-RANGE-DEFAULT W-POSITION W-TITLE MENU-FONT VAR-NAMES-FONT MIN-MENU-WIDTH MAX-NAME-WIDTH)
  (* sm "22-Jul-85 13:22")
  (PROG (W W-REGION W-WIDTH W-HIGHT MENU-LIST POSITION-DECREMENT FIRST-POSITION MAX-MENU-WIDTH
    MENU-ITEM-HEIGHT INIT-VALUE)
    (if (NOT (AND MENU-FONT (FONTP MENU-FONT)))
      then (SETQ MENU-FONT (FONTCREATE (QUOTE GACHA)
        8)))
    [if (NOT (AND VAR-NAMES-FONT (FONTP MENU-FONT)))
      then (SETQ VAR-NAMES-FONT (FONTCREATE (QUOTE HELVETICA)
        8
        (QUOTE BOLD]
    (if (NULL MIN-MENU-WIDTH)
      then (SETQ MIN-MENU-WIDTH 5))
    [SETQ MAX-NAME-WIDTH (OR MAX-NAME-WIDTH (APPLY (QUOTE MAX)
      (for v in LIST-OF-VAR-RANGE-DEFAULT
        collect (NCHARS (CAR V)
          (SETQ MIN-MENU-WIDTH (ITIMES MIN-MENU-WIDTH (CHARWIDTH (CHARCODE M)
            MENU-FONT)))
          (SETQ X-OFFSET (ITIMES MAX-NAME-WIDTH (CHARWIDTH (CHARCODE M)
            VAR-NAMES-FONT)))
          (SETQ MENU-LIST (VB.CREATE-LIST-OF-EQ-WIDTH-MENUS LIST-OF-VAR-RANGE-DEFAULT MENU-FONT MIN-MENU-WIDTH))
          (SETQ MAX-MENU-WIDTH (fetch IMAGEWIDTH of (CAR MENU-LIST)))
          (SETQ W-WIDTH (IPLUS MAX-MENU-WIDTH 10 X-OFFSET))
          [SETQ MENU-ITEM-HEIGHT (ADD1 (fetch ITEMHEIGHT of (CAR MENU-LIST)
            (SETQ W-HEIGHT (IPLUS (ITIMES (LENGTH MENU-LIST)
              MENU-ITEM-HEIGHT)
                20))
            (SETQ FIRST-POSITION (IDIFFERENCE W-HEIGHT (IPLUS 20 MENU-ITEM-HEIGHT)))
            (SETQ POSITION-DECREMENT (MINUS MENU-ITEM-HEIGHT))
            (SETQ W-REGION (if W-POSITION
              then (SETQ W-REGION (CREATEREGION (fetch XCOORD of W-POSITION)
                (fetch YCOORD of W-POSITION)
                W-WIDTH W-HEIGHT))
              else (GETBOXREGION W-WIDTH W-HEIGHT NIL NIL NIL "Specify position for varbrowser
                window")))
            (SETQ W (CREATEW W-REGION (OR W-TITLE "Varbrowser window")))
            (WINDOWPROP W (QUOTE ICONFN)
              (QUOTE VB.CREATE-ICON-WINDOW))
            (for M in MENU-LIST as VAR-VALUES-DEFAULTE in LIST-OF-VAR-RANGE-DEFAULT as Y from FIRST-POSITION
              by POSITION-DECREMENT do (MOVETO 3 Y W)
                (DSPFONT VAR-NAMES-FONT W)
                (printout W (CAR VAR-VALUES-DEFAULTE))
                (DRAWCURVE (LIST (create POSITION
                  XCOORD _ (DSPXPOSITION NIL W)
                  YCOORD _ (DSPYPOSITION NIL W))
                  (create POSITION
                  XCOORD _ X-OFFSET
                  YCOORD _ Y))
                  NIL
                  (QUOTE (ROUND 1))
                  (QUOTE (1 3))
                  W)
                (ADDMENU M W (create POSITION
                  XCOORD _ X-OFFSET
                  YCOORD _ Y))
            (COND
              ((CDDR VAR-VALUES-DEFAULTE)
                (SETQ INIT-VALUE (CADDR VAR-VALUES-DEFAULTE))
                (SET (CAR VAR-VALUES-DEFAULTE)
                  INIT-VALUE))
              [(BOUNDP (CAR VAR-VALUES-DEFAULTE))
                (SETQ INIT-VALUE (EVAL (CAR VAR-VALUES-DEFAULTE)
                  (T (SETQ INIT-VALUE NIL))))
                (VB.UPDATE-MENU M INIT-VALUE))
            (WINDOWPROP W (QUOTE OPENFN))
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      (QUOTE VB.UPDATE-ALL-MENUS))
      (WINDOWPROP W (QUOTE EXPANDFN)
      (QUOTE VB.UPDATE-ALL-MENUS))
      (RETURN W])

```

(VB.CREATE-ICON-WINDOW

(* sm "22-Jul-85 13:23")

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[LAMBDA (WINDOW ICON)
[COND
  ((NULL ICON)
   (SETQ ICON (TITLEDICONW (create TITLEDICON
                                ICON _ VB.ICON
                                MASK _ VB.MASK
                                TITLEREG _ (CREATEREGION 3 3 65 40))
                          (WINDOWPROP WINDOW (QUOTE TITLE))
                          (FONTCREATE (QUOTE GACHA)
                                      8]
                                ICON]))

```

(VB.CREATE-LIST-OF-EQ-WIDTH-MENUS

(* sm "22-Jul-85 12:41")

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[LAMBDA (LIST-OF-VAR-RANGE-DEFAULT MENU-FONT MIN-MENU-WIDTH)
  (PROG (TEMP-MENU-LIST MAX-WIDTH)
    [SETQ MAX-WIDTH (APPLY (QUOTE MAX)
                          (for VAR-RANGE-DEFAULT in LIST-OF-VAR-RANGE-DEFAULT
                            collect (if (CADR VAR-RANGE-DEFAULT)
                                        then [ITIMES (LENGTH (CADR VAR-RANGE-DEFAULT))
                                                  (APPLY (QUOTE MAX)
                                                        (for VALUE in (CADR VAR-RANGE-DEFAULT)
                                                          collect (IPLUS (STRINGWIDTH (MKSTRING VALUE)
                                                                    MENU-FONT)
                                                                    8]
                                                                else MIN-MENU-WIDTH])
                                (RETURN (for VAR-RANGE-DEFAULT in LIST-OF-VAR-RANGE-DEFAULT
                                        collect (create MENU
                                                       ITEMS _ [if (CADR VAR-RANGE-DEFAULT)
                                                                    then (for V in (CADR VAR-RANGE-DEFAULT)
                                                                      collect (LIST V (CAR VAR-RANGE-DEFAULT)))
                                                                    else (LIST (LIST " " (LIST (CAR VAR-RANGE-DEFAULT)
                                                                    MENUROWS _ 1
                                                                    MENUFONT _ MENU-FONT
                                                                    CENTERFLG _ T
                                                                    ITEMWIDTH _ [IQUOTIENT MAX-WIDTH (MAX 1 (LENGTH (CADR VAR-RANGE-DEFAULT)
                                                                    WHENSELECTEDFN _
                                                                    (QUOTE (LAMBDA (ITEM MEN KEY)
                                                                      (PROG (NEW-VAL REG WIND)
                                                                        (SETQ WIND (WFROMMENU MEN))
                                                                        (if (LISTP (CADR ITEM))
                                                                            then
                                                                              (DSPFILL (SETQ REG (MENUITEMREGION ITEM MEN))
                                                                                          WHITESHADE
                                                                                          (QUOTE REPLACE)
                                                                                          WIND)
                                                                              (DSPFONT (fetch MENUFONT of MEN)
                                                                                          WIND)
                                                                              (MOVETO (IPLUS 2 (fetch LEFT of REG))
                                                                                          (IPLUS 2 (fetch BOTTOM of REG))
                                                                                          WIND)
                                                                              [SETQ NEW-VAL (MKATOM (PROMPTFORWARD NIL NIL NIL WIND
                                                                                          NIL (QUOTE TTY)
                                                                                          (SET (CAADR ITEM)
                                                                                          NEW-VAL)
                                                                                          (RPLACA ITEM NEW-VAL)
                                                                                          else
                                                                                          (for I in (fetch ITEMS of MEN)
                                                                                          do
                                                                                          (SHADEITEM I MEN WHITESHADE))
                                                                                          (SET (CADR ITEM)
                                                                                          (CAR ITEM))
                                                                                          (SHADEITEM ITEM MEN BLACKSHADE])
                                                                      (PROG (NEW-VAL REG WIND)
                                                                        (SETQ WIND (WFROMMENU MEN))
                                                                        (if (LISTP (CADR ITEM))
                                                                            then
                                                                              (DSPFILL (SETQ REG (MENUITEMREGION ITEM MEN))
                                                                                          WHITESHADE
                                                                                          (QUOTE REPLACE)
                                                                                          WIND)
                                                                              (DSPFONT (fetch MENUFONT of MEN)
                                                                                          WIND)
                                                                              (MOVETO (IPLUS 2 (fetch LEFT of REG))
                                                                                          (IPLUS 2 (fetch BOTTOM of REG))
                                                                                          WIND)
                                                                              [SETQ NEW-VAL (MKATOM (PROMPTFORWARD NIL NIL NIL WIND
                                                                                          NIL (QUOTE TTY)
                                                                                          (SET (CAADR ITEM)
                                                                                          NEW-VAL)
                                                                                          (RPLACA ITEM NEW-VAL)
                                                                                          else
                                                                                          (for I in (fetch ITEMS of MEN)
                                                                                          do
                                                                                          (SHADEITEM I MEN WHITESHADE))
                                                                                          (SET (CADR ITEM)
                                                                                          (CAR ITEM))
                                                                                          (SHADEITEM ITEM MEN BLACKSHADE])

```

(VB.UPDATE-ALL-MENUS

(* sm "16-Jul-85 13:16")

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[LAMBDA (W)
  (PROG (VAR-NAME)
    (for ONE-MENU in (WINDOWPROP W (QUOTE MENU))
      do (VB.UPDATE-MENU ONE-MENU (if (BOUNDP (if [LISTP (SETQ VAR-NAME (CADAR (fetch ITEMS of ONE-MENU]
                                                                    then (SETQ VAR-NAME (CAR VAR-NAME))
                                                                    else VAR-NAME))
                                      then (EVAL VAR-NAME)
                                      else NIL)))
    (RETURN W])

```

(VB.UPDATE-MENU

(* sm "16-Jul-85 13:08")

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[LAMBDA (MENU VALUE)
  (PROG (WINDOW ITEMS REG)

```


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