```
(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**
```
  [LAMBDA (WINDOW ICON)                                             (* sm "22-Jul-85 13:23")
    [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**
```
  [LAMBDA (LIST-OF-VAR-RANGE-DEFAULT MENU-FONT MIN-MENU-WIDTH)    (* sm "22-Jul-85 12:41")
    (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 (PROMPTFORWORD 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**
```
  [LAMBDA (W)                                                        (* sm "16-Jul-85 13:16")
    (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**
```
  [LAMBDA (MENU VALUE)                                               (* sm "16-Jul-85 13:08")
    (PROG (WINDOW ITEMS REG)
```

```
          (SETQ ITEMS (fetch ITEMS of MENU))
          (SETQ WINDOW (WFROMMENU MENU))
          (if (AND (EQP (LENGTH ITEMS)
                        1)
                   (LISTP (CADAR ITEMS)))
             then (DSPFILL (SETQ REG (MENUITEMREGION (CAR ITEMS)
                                                     MENU))
                           WHITESHADE
                           (QUOTE REPLACE)
                           WINDOW)
                  (DSPFONT (fetch MENUFONT of MENU)
                           WINDOW)
                  (MOVETO (IPLUS 2 (fetch LEFT of REG))
                          (IPLUS 2 (fetch BOTTOM of REG))
                          WINDOW)
                  (PRIN1 VALUE WINDOW)
             else (for ITEM in ITEMS do (SHADEITEM ITEM MENU WHITESHADE)
                                        (COND
                                          ((AND (BOUNDP (CADR ITEM))
                                                (EQUAL (EVAL (CADR ITEM))
                                                       (CAR ITEM)))
                                            (SHADEITEM ITEM MENU BLACKSHADE])
)

(RPAQ VB.ICON (READBITMAP))


(75 75 "OOOOOOOOOOOOOOOOOOON@" "OOOOOOOOOOOOOOOOOOOON@" "L@@@@@@@@@@@@@@@@@F@" "L@@@@@@@@@@@@@@@@@F@"
     "LOOOOOOOOOOOOOOOONF@" "LOFJLKOOOOOOOOOOONF@" "LOBMCKOOOOOOOOOONF@" "LOOOOOOOOOOOOOOOONF@"
     "LH@@@@@@@@@@@@@@@BF@" "LH@@@@@COOOOOOOOOJF@" "LH@@@@@B@B@DA@D@JF@" "LH@@@@@B@B@DA@D@JF@"
     "LH@@@@@COOOOOOOOOJF@" "LH@@@@@COOL@@D@@JF@" "LJKKCD@@COOL@@D@@JF@" "LKBJHDAEGOOOOOOOOOJF@"
     "LH@@@@@B@@@AOOOOJF@" "LJKK@@@@B@@@AOOOOJF@" "LKJJAEEEGOOOOOOOOOJF@" "LH@@@@@BAOAAAAA@JF@"
     "LJKKDN@@BAOAAAAA@JF@" "LKJJFHEEGOOOOOOOOOJF@" "LH@@@@@B@@@@@@@@@JF@" "LJ@JAH@@B@@@@@@@@@JF@"
     "LKKKMAEEGOOOOOOOOOJF@" "LH@@@@@B@@@@@@@@@JF@" "LJCKL@@@B@@@@@@@@@JF@" "LKJJEEEEGOOOOOOOOOJF@"
     "LH@@@@@B@DAOHDB@JF@" "LHJFI@@@B@DAOHDB@JF@" "LKKKDMEEEGOOOOOOOOOJF@" "LH@@@@@B@@COOL@@JF@"
     "LJKKJ@@@B@@COOL@@JF@" "LIJJEEEEGOOOOOOOOOJF@" "LH@@@@@COHA@B@D@JF@" "LKIIL@@@COHA@B@D@JF@"
     "LJBEBEEEGOOOOOOOOOJF@" "LH@@@@@B@@@@@@@@@JF@" "LKJF@@@@B@@@@@@@@@JF@" "LJCBEEEEGOOOOOOOOOJF@"
     "LH@@@@@B@@@@@OOOOJF@" "LJCJH@@@B@@@@OOOOJF@" "LKKJBNEEEGOOOOOOOOOJF@" "LH@@@@@@@@@@@@@@@@BF@"
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     "L@@@@@@@@@@@@@@@@@F@" "OOOOOOOOOOOOOOOOON@" "OOOOOOOOOOOOOOOOON@")

(RPAQ VB.MASK (READBITMAP))


(75 75 "OOOOOOOOOOOOOOOOON@" "OOOOOOOOOOOOOOOOOON@" "OOOOOOOOOOOOOOOOOON@" "OOOOOOOOOOOOOOOOOON@"
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FUNCTION INDEX

VARIABLE INDEX