```
16-May-90 11:59:31 {DSK}<usr>local>lde>lispcore>sources>AFONT.;2
 File created:
  changes to:
                 (VARS AFONTCOMS)
previous date:
                14-Sep-87 11:59:36 {DSK}<usr>local>lde>lispcore>sources>AFONT.;1
 Read Table:
                INTERLISP
    Package:
                INTERLISP
       Format:
                  XCCS
;; Copyright (c) 1984, 1985, 1986, 1987, 1990 by Venue & Xerox Corporation. All rights reserved.
(RPAQQ AFONTCOMS
        ((XCL:FILE-ENVIRONMENTS "AFONT")
         (DECLARE%: EVAL@COMPILE DONTCOPY (RECORDS BOUNDINGBOX FONTBOUNDINGBOX)
                  (CONSTANTS noInfoCode))
               \CREATESTARFONT \READACFONTBOXES \READACFONTFILE \ACCHARMAGELIST \ACCHARWIDTHLIST \GETFBB
         \ACCHARPOSLIST \ACROTATECHAR \READFONTWDFILE \FACECODE \FAMILYCODE \FINDFONT)
[INITVARS (INTERPRESSFONTDIRECTORIES '("{Erinyes}<Lyric>Fonts>"]
         (MACROS \POSITIONFONTFILE)))
(XCL:DEFINE-FILE-ENVIRONMENT "AFONT" : PACKAGE "IL"
    :READTABLE "INTERLISP"
    :COMPILER :COMPILE-FILE)
(DECLARE%: EVAL@COMPILE DONTCOPY
(DECLARE%: EVAL@COMPILE
(RECORD BOUNDINGBOX (
            (* * The bounding box for a character in an AC file)
                         BBOX
                                                                             (* Offset from the left edge of the bounding box to the
                                                                             character's origin)
                                                                             (* Offset from the bottom of the bounding box to the character's
                         BBOY
                         origin)
                         BBDX
                                                                               Width of the character's bounding box in pixels)
                                                                             (* Height of the bounding box in bits
                                                                              -1 if this character doesn't really exist)
                                                                              (* Width of the character's image
                         RASTERWIDTHX
                                                                              (i.e., the escapement for this character) in raster bits)
                         RASTERWIDTHY
                                                                               Amount this char moves in Y, in raster units.)
                         ))
(RECORD FONTBOUNDINGBOX (FBBBDX FBBBDY FBBBOX FBBBOY))
(DECLARE%: EVAL@COMPILE
(RPAQQ nolnfoCode 32768)
(CONSTANTS noInfoCode)
(DEFINEO
(\CREATESTARFONT
                                                                             (* gbn " 1-Oct-85 18:29")
   [LAMBDA (FAMILY PSIZE FACE ROTATION DEVICE CHARSET)
    ;; the Build font descriptor for an Interpress NS font. If we can't find widths info for that font, return NIL
    ;; Widths array is fully allocated, with zeroes for characters with no information. An array is not allocated for fixed WidthsY. DEVICE is PRESS or ;; INTERPRESS
     (DECLARE (GLOBALVARS INTERPRESSFONTDIRECTORIES \ASCIITONS))
                                                                             ; RESETLST to make sure the fontfiles get closed
     (RESETLST
                [(CS (OR CHARSET \DEFAULTCHARSET))
         (PROG
                  (NSMICASIZE (FIXR (FQUOTIENT (ITIMES PSIZE 2540)
                                                72)))
                  (FD (create FONTDESCRIPTOR
                               FONTDEVICE _ DEVICE
                               FONTFAMILY _ FAMILY
                               FONTSIZE _ PSIZE
                               FONTFACE
                                          _ FACE
                               \SFFACECODE _ (\FACECODE FACE)
ROTATION _ ROTATION
                               OTHERDEVICEFONTPROPS
                                                          \ASCIITONS
                               FONTSCALE _ (CONSTANT (FQUOTIENT 2540 72]
                 (RETURN (if
                              (NOT (\GETCHARSETINFO CS FD T))
                               then
                                                                             ; return NIL and let FONTCREATE decide whether or not to
                                                                             ; cause an error
```

else FD)))))))

```
(\READACFONTBOXES
                                                                            jds "15-Jun-85 11:48")
  [LAMBDA (FILE STARTCHAR ENDCHAR)
                                                                           GETACCHARSPECS returns (bbox bboy bbdx bbdy)
                                                                           if bbdx and bbdy are both zero, then treat it as a space.
                                                                           Move to the start of AC file's width info.
    (SETFILEPTR FILE 48)
    (for x from Startchar to Endchar collect
                                                                          Now collect the 4 bounding box values into a list
                                                (create BOUNDINGBOX
                                                       RASTERWIDTHX _
                                                                         (PROG1 (\WIN FILE)
                                                                          ; Read a fraction, and truncate it to an integer # of raster bits
                                                                              (\WIN FILE))
                                                       RASTERWIDTHY _
                                                                         (PROG1 (\WIN FILE)
                                                                          ; Read a fraction, and truncate it to an integer # of raster bits
                                                                              (\WIN FILE))
                                                       BBOX _ (SIGNED (\WIN FILE)
                                                                       BITSPERWORD)
                                                       BBOY (SIGNED (\WIN FILE)
                                                                       BITSPERWORD)
                                                       BBDX (SIGNED (\WIN FILE)
                                                                       BITSPERWORD)
                                                       BBDY _ (SIGNED (\WIN FILE)
                                                                       BITSPERWORD])
(\READACFONTFILE
                                                                          ; Edited 1-Sep-87 10:04 by Snow
  [LAMBDA (STRM FAMILY SIZE FACE PAD.LEFT DONT.PAD.RIGHT)
    :: Read an AC-format font file. Assumes that the file is open and has already been determined to be of type AC.
    [ COND
        ((RANDACCESSP STRM)
         (RESETSAVE NIL (LIST (FUNCTION CLOSEF?)
                                 STRM)))
           ;; This is necessary unless we figure out how to read the AC file sequentially. When we figure this out, we can factor the RESETSAVE ;; back in \READDISPLAYFONTFILE
           (SETQ STRM (OPENSTREAM (CLOSEF? STRM)
                                'INPUT))
           (RESETSAVE NIL (LIST (FUNCTION CLOSEF?)
                                   STRM))
           (COPYBYTES STRM (SETQ STRM (OPENSTREAM '{NODIRCORE} 'BOTH]
    (SETFILEPTR STRM 28)
                                                                          ; Starting at 28 skips the family and face bytes.
    (PROG [FBBLIST STARTCHAR ENDCHAR CHARWIDTHLIST CHARIMAGEWIDTHLIST LEFTKERNS OFFSETS WIDTHS IMAGEWIDTHS
                   FONTDESC FBBBITMAP CHARBITMAP STARTWORDLIST BBOXLIST DUMMYCHAROFFSET DUMMYWIDTH
                   (CSINFO (create CHARSETINFO
                                    IMAGEWIDTHS
                                                     (\CREATECSINFOELEMENT)
                                    LEFTKERN _ (\CREATEKERNELEMENT]
           (SETO STARTCHAR (BIN STRM))
                                                                          : Get the first and last characters in this font
           (SETQ ENDCHAR (BIN STRM))
           (SETO BBOXLIST (\READACFONTBOXES STRM STARTCHAR ENDCHAR))
                                                                          ; Read the list of bounding boxes for all the chars in the font
           (SETO FBBLIST (\GETFBB BBOXLIST)
           (SETQ CHARWIDTHLIST (\ACCHARIMAGELIST BBOXLIST))
                                                                          ; And the escapement for each character.
           (SETQ CHARIMAGEWIDTHLIST (\ACCHARWIDTHLIST BBOXLIST FBBLIST)
                                                                          ; Create the list of character widths for the characters in the font.
           (COND
               ([EVERY (CDR CHARWIDTHLIST)
                        (FUNCTION (LAMBDA (WID)
                                      (OR (ZEROP WID)
                                          (EQP WID (CAR CHARWIDTHLIST]
                                                                           Fixed-pitch font. Make the dummy character (for non-existent
                                                                           chars) the same width.
                (SETQ DUMMYWIDTH (CAR CHARWIDTHLIST)))
                                                                          ; Otherwise, make the dummy 6 wide.
               (T
                  (SETQ DUMMYWIDTH 6)))
           (COND
               ((NULL (REMOVE 0 CHARIMAGEWIDTHLIST))
                (ERROR "No raster images" NIL)
                (RETURN)))
                LEFTKERNS (FETCH (CHARSETINFO LEFTKERN) OF CSINFO))
           (FOR I FROM STARTCHAR TO ENDCHAR AS BOX IN BBOXLIST DO
                                                                           set the left kerning values. the default value is ZERO which is
                                                                           set when the element is created. Currently it is an array
                                                                          ; because kerning values can be negative values.
                                                                             (\FSETLEFTKERN LEFTKERNS I
                                                                                      (FFETCH (BOUNDINGBOX BBOX)
                                                                                         OF BOX)))
           (SETO IMAGEWIDTHS (fetch (CHARSETINFO IMAGEWIDTHS) of CSINFO))
           (for I from 0 to (ADD1 \MAXTHINCHAR) do (\FSETIMAGEWIDTH IMAGEWIDTHS I DUMMYWIDTH))
           (SETQ WIDTHS (fetch (CHARSETINFO WIDTHS) of CSINFO))
           (for I from 0 to (ADD1 \MAXTHINCHAR) do (\FSETWIDTH WIDTHS I DUMMYWIDTH)
                                                                            SETQ IMAGEWIDTHS (ARRAY 258
                                                                          (QUOTE (BITS 16)) DUMMYWIDTH 0))
     ;; Create the array of character widths, assuming the dummy width for all characters--we'll write over it later
```

```
do ;; Fill in the image widths (the width of the image, as against how far to space over after printing the character)
       (\FSETIMAGEWIDTH IMAGEWIDTHS X (COND
                                              ((ZEROP Y)
                                              (T (IPLUS Y (COND
                                                               (PAD.LEFT 1)
                                                               (T 0))
                                                          (COND
                                                             (DONT.PAD.RIGHT 0)
                                                             (T 11
                                                              ; And the array of image escapements
(for X from STARTCHAR to ENDCHAR as Y in CHARWIDTHLIST do (\FSETWIDTH WIDTHS X Y))
[replace Charsetdescent of Csinfo with (IMAX 0 (IMINUS (fetch (FONTBOUNDINGBOX FBBBOY) of FBBLIST]
[replace CHARSETASCENT of CSINFO with (IMAX 0 (IPLUS (fetch (FONTBOUNDINGBOX FBBBDY) of FBBLIST)
                                                          (fetch (FONTBOUNDINGBOX FBBBOY) of FBBLIST]
[replace Charsetbitmap of Csinfo with (seto Charbitmap (bitmapcreate (iplus (seto dummycharoffset
                                                                                      (for (X STARTCHAR)
                                                                                         to ENDCHAR
                                                                                         sum (\FGETWIDTH
                                                                                                       IMAGEWIDTHS X
                                                                                                       )))
                                                                                     DUMMYWTDTH)
                                                                     (fetch (FONTBOUNDINGBOX FBBBDY)
                                                                        of FBBLIST1
(SETQ OFFSETS (fetch (CHARSETINFO OFFSETS) of CSINFO))
(for I from 0 to (ADD1 \MAXTHINCHAR) do (\FSETOFFSET OFFSETS I DUMMYCHAROFFSET))
(SETO STARTWORDLIST (\ACCHARPOSLIST STRM STARTCHAR ENDCHAR))
(bind (destleft _ 0) for nthchar from startchar to endchar as bblist in bboxlist as startword
(bind (DESTLEFT
   in startwordlist as charwidth in charwidthlist
                                                              ; \ACCHARPOSLIST returns NIL if no raster exists for the code
   do (PROG (RASTERINFO BBOX BBBITMAP BBBMBASE)
              (COND
                 ((NULL STARTWORD)
                  ;; This character has no image; use the dummy char's offset (already in the offset and width arrays from earlier)
                  (add DESTLEFT (\FGETWIDTH IMAGEWIDTHS NTHCHAR))
                  (\FSETWIDTH WIDTHS NTHCHAR DUMMYWIDTH)
                  (\FSETIMAGEWIDTH IMAGEWIDTHS NTHCHAR DUMMYWIDTH)
                  (GO L2)))
             (SETFILEPTR STRM STARTWORD)
                                                              ; If could flush this, would work on non-randaccessp devices
              (SETQ RASTERINFO (\WIN STRM))
                 ((EQ -1 (fetch BBDY of BBLIST))
                  (\FSETWIDTH WIDTHS NTHCHAR DUMMYWIDTH)
                  (\FSETIMAGEWIDTH IMAGEWIDTHS NTHCHAR DUMMYWIDTH)
                  (GO L2)))
                                                              : \ACCHARPOSLIST returns NIL if no raster exists for the code
             (SETQ BBOX (fetch BBOX of BBLIST))
             (COND
                 ((AND (ZEROP
                                (fetch BBDX of BBLIST))
                                (fetch BBDY of BBLIST)))
                                                               The image is zero wide or zero high. Don't bother reading a
                        (ZEROP
                                                               bitmap image
                 ((SETQ BBBITMAP (BITMAPCREATE (TIMES 16 (FOLDLO RASTERINFO 1024))
                                            (IMOD RASTERINFO 1024)))
                  (SETO BBBMBASE (fetch BITMAPBASE of BBBITMAP))
                  ;; STARTWORD is the characters raster information word. The high 6 bits record number of words per scan line and
                  ;; the lower 10 bits is the same as bbdx bbdx. The raster for the char follows STARTWORD
                  (\BINS STRM BBBMBASE 0 (TIMES 2 (FOLDLO RASTERINFO 1024)
                                                     (IMOD RASTERINFO 1024)))
                  (SETO BBBITMAP (\ACROTATECHAR BBBITMAP))
                                                              ; here is the place to add a rotation function to manipulate the
                                                               character images coming off *.ac
                  (BITBLT BBBITMAP 0 0 CHARBITMAP [PLUS DESTLEFT (IMAX 0 (COND
                                                                                      (PAD.LEFT (ADD1 BBOX))
                                                                                      (T BBOX)
                          (DIFFERENCE (fetch BBOY of BBLIST)
                                  (fetch (FONTBOUNDINGBOX FBBBOY) of FBBLIST))
                           (\FGETWIDTH IMAGEWIDTHS NTHCHAR)
                          (CADDDR BBLIST)
                          'INPUT
                          'REPLACE)
                                                              ; ADD1 to BBOX because we add an empty column to each
                                                               ; raster image to the left
             (\FSETOFFSET OFFSETS NTHCHAR DESTLEFT)
        ;; on screen ac fonts, there are no spaces stored so that the width of the char is exactly that of the character image without any
        ;; spacing columns
              (add DESTLEFT (\FGETWIDTH IMAGEWIDTHS NTHCHAR))
                                                               add 2 because of the two blank columns we add; one on either
        L2
                                                               : side of the ac raster image
       ))
(BITBLT NIL 0 0 CHARBITMAP (ADD1 DUMMYCHAROFFSET)
        (IDIFFERENCE DUMMYWIDTH 2)
```

```
(\ACCHARPOSLIST
```

[LAMBDA (FILE STARTCHAR ENDCHAR)

FBBBOX _ MINBBOX FBBBOY _ MINBBOY])

(* jds "10-NOV-83 20:19")

; \ACCHARPOSLIST returns the word position of the raster for

: the nth character of the file

[SETFILEPTR FILE (IPLUS 48 (ITIMES 16 (ADD1 (IDIFFERENCE ENDCHAR STARTCHAR]

```
(bind hiword loword [directorystart _ (iplus 48 (itimes 16 (add1 (idifference endchar startchar]
                          first (SETFILEPTR FILE DIRECTORYSTART) for x from Startchar to Endchar
                         collect (SETQ HIWORD (\WIN FILE))
                                                  (SETQ LOWORD (\WIN FILE))
                                                                                                                                                                                                                                                      ; If the position of the acchar is given as -1,-1 then the raster
                                                                                                                                                                                                                                                     does not exist so return nil
                                                  (COND
                                                            ((AND (IEQP HIWORD 65535)
                                                                                    (IEQP LOWORD 65535))
                                                            (T (IPLUS
                                                                                                 (LLSH HIWORD 17)
                                                                                                  (LLSH LOWORD 1)
                                                                                                  DIRECTORYSTART])
(\ACROTATECHAR
                                                                                                                                                                                                                                                    ; Edited 28-Jul-87 18:49 by Snow
        [LAMBDA (BITMAP)
              ;; (prog (new.bitmap (width (|fetch| (bitmap bitmapwidth) |of| bitmap)) (height (|fetch| (bitmap bitmapheight) |of| bitmap))) (setq new.bitmap;; (bitmapcreate height width)) (|for| y |from| 0 |to| (sub1 height) |do| (|for| x |from| 0 |to| (sub1 width) |bind| (y1 _ (idifference (sub1 height) y)) |do| ;; (bitmapbit new.bitmap y1 x (bitmapbit bitmap x y)))) (return new.bitmap))
               (ROTATE-BITMAP-LEFT BITMAP))
(\READFONTWDFILE
                                                                                                                                                                                                                                                    (* jds " 2-Jan-86 12:34")
        [LAMBDA (FILE FD WIDTHS SCALE)
              ;; Widths array is fully allocated, with zeroes for characters with no information. An array is not allocated for fixed WidthsY. DEVICE is PRESS or ;; INTERPRESS
            (* (RESETLST (* ; "RESETLST to make sure the fontfiles get closed") (PROG (FIXEDFLAGS FIRSTCHAR LASTCHAR TEM WIDTHSY) (SETFILEPTR FILE (LLSH (\FIXPIN FILE) 1)) (* ; "Locate the segment") (replace (FONTDESCRIPTOR FBBOX) of FD with (SIGNED (\WIN FILE) BITSPERWORD)) (replace \SFDescent of FD with (IMINUS (SIGNED (\WIN FILE) BITSPERWORD)))) (* ; "Descent is -FBBOY") (replace (FONTDESCRIPTOR FBBDX) of FD with (SIGNED (\WIN FILE) BITSPERWORD))) (replace \SFHeight of FD with (SIGNED (\WIN FILE) BITSPERWORD)))
                                                                                                                                                                                                                                                    (replace \SFHeight of FD with (SIGNED (\WIN FILE) BITSPERWORD)) (* ;
"Height is FBBDY") (replace \SFWidths of FD with WIDTHS)
(SETQ FIRSTCHAR (fetch FIRSTCHAR of FD))
                                                                                                                                                                                                                                                             "First and last 'real' characters in the font")
                                                                                                                                                                                                                                                      SETQ LASTCHAR (fetch LASTCHAR of FD))
(COND (SCALE (* ; "Dimensions are relative, must be scaled")
(replace (FONTDESCRIPTOR FBBOX) of FD with
                                                                                                                                                                                                                                                     (IQUOTIENT (ITIMES (fetch (FONTDESCRIPTOR FBBOX) of FD) SCALE) 1000)) (replace \SFDescent of FD with (IQUOTIENT (ITIMES (fetch \SFDescent of FD) SCALE) 1000))
                                                                                                                                                                                                                                                 INDUSTRIES (INDUSTRIES OF TOWN SECRETA WIDTHS I TOWN SECRETA WIDTHS I TEMPON (INDUSTRIES OF TOWN)

(IQUOTIENT (ITIMES (fetch \SFDescent of FD) SCALE) 1000))

(replace (FONTDESCRIPTOR FBBDX) of FD with (IQUOTIENT (ITIMES (fetch \SFDescent of FD) with (IQUOTIENT (ITIMES (fetch \SFHeight of FD with (IQUOTIENT (ITIMES (fetch \SFHeight of FD) SCALE) 1000)))

(replace \SFAscent of FD with (IDIFFERENCE (fetch \SFHeight of FD)) (fetch \SFDescent of FD)))

(SETQ FIXEDFLAGS (LRSH \BIN FILE) (*);

"Skip the spares") (COND ((EQ 2 (LOGAND FIXEDFLAGS 2)) (SETQ TEM (WIN FILE)) (*);

"The fixed flags") (\SIN FILE) (*);

"Skip the spares") (COND ((EQ 2 (LOGAND FIXEDFLAGS 2)) (SETQ TEM (\WIN FILE)) (*);

"The fixed width for this font") (COND ((AND SCALE (NOT (ZEROP TEM))))

(SETQ TEM (IQUOTIENT (ITIMES TEM SCALE) 1000)))))

(for I from FIRSTCHAR to LASTCHAR do (SETA WIDTHS I TEM))) (T (AIN WIDTHS FIRSTCHAR (ADD1 (IDIFFERENCE LASTCHAR FIRSTCHAR))) FILE)

(for I from FIRSTCHAR to LASTCHAR when (EQ noInfoCode (ELT WIDTHS I)) do (SETA WIDTHS I) (IQUOTIENT (ITIMES (ELT WIDTHS I)) (COND (SCALE (TOND (SC
                                                                                                                                                                                                                                                      (EQ noInfoCode (ELT WIDTHSY I)) do
(SETA WIDTHSY I 0)) (COND (SCALE
(for I from FIRSTCHAR to LASTCHAR do
(SETA WIDTHSY I (IQUOTIENT
                                                                                                                                                                                                                                                      (ITIMES (ELT WIDTHSY I) SCALE) 1000)))))))))
```

```
∆FACECODE
                                                                                   (* rmk%: "27-FEB-81 12:16")
   [LAMBDA (FACE)
      (IPLUS (SELECTQ (fetch (FONTFACE EXPANSION) of FACE)
                     (REGULAR 0)
                     (COMPRESSED 6)
                     (EXPANDED 12)
                     (SHOULDNT))
               (SELECTQ (fetch (FONTFACE WEIGHT) of FACE)
                     (MEDIUM 0)
                     (BOLD 2)
                     (LIGHT 4)
                     (SHOULDNT))
               (SELECTQ (fetch (FONTFACE SLOPE) of FACE)
                     (REGULAR 0)
                     (ITALIC 1)
                     (SHOULDNT1)
 (\FAMILYCODE
   [LAMBDA (FAMILY WSTRM)
                                                                                   (* rmk%: "11-Sep-84 10:54")
       Returns the family CODE for FAMILY in a standard widths file, leaving the file positioned at the beginning of the next file entry. Returns NIL if
      ;; FAMILY not found. If FAMILY is T, returns the code for the first family in the index.
      (SETFILEPTR WSTRM 0)
      (bind TYPE CODE LENGTH (NCHARS
                                              (NCHARS FAMILY))
             (NEXT _ 0) do (SETFILEPTR WSTRM NEXT)
                               (SETQ TYPE (\BIN WSTRM))
                               (SETQ LENGTH (\BIN WSTRM))
                               (add NEXT (LLSH (IPLUS LENGTH (LLSH (LOGAND TYPE 15)
                                                                            8))
                               (SELECTQ (LRSH TYPE 4)
                                    (1 (SETQ CODE (\WIN WSTRM))
                                        (COND
                                            ([OR (EQ FAMILY T)
                                                   (AND (EQ NCHARS (\BIN WSTRM))
                                                         (for I from 1 to NCHARS always (EQ (\BIN WSTRM)
                                                                                                   (NTHCHARCODE FAMILY I]
                                                                                   ; Move file to next entry
                                              (SETFILEPTR WSTRM NEXT)
                                              (RETURN CODE))))
                                    (0 (RETURN NIL))
                                    NIL])
 (\FINDFONT
   [LAMBDA (FD WSTRM PRESSMICASIZE NSMICASIZE DONTCHECK)
                                                                                   ; Edited 2-Apr-87 14:39 by bvm:
      ;; Finds the widths information for the specified FAMILY, FACECODE, MSIZE, and ROTATION. The FIRSTCHAR and LASTCHAR of the font are
      ;; filled in, since we have to read past those to check the size. If successful, returns the size found in the widths file, with zero indicating that
       dimensions in the widths file are relative, leaving the file pointing just after the Rotation word of the font. --- If DONTCHECK, then assumes that
     ;; difficisions in the widths life are relative, leaving the life pointing just tall the forties new fourid size FAMILYCODE
                                                                                  ; "This is the right family/face (DONTCHECK must come last,
                                                                                   so the file reads get done.)") (replace FIRSTCHAR of FD with (\BIN WSTRM)) (replace LASTCHAR of FD with
(IBIN WSTRM)) (replace LASTCHAR OF POWITH
(NBIN WSTRM)) (COND ((AND (OR
(ZEROP (SETQ SIZE (WIN WSTRM))))
(LESSP (ABS (FQUOTIENT (IDIFFERENCE
(OR PRESSMICASIZE NSMICASIZE) SIZE) PRESSMICASIZE)
) FUZZ)) (EQ ROTATION (\WIN WSTRM))) (replace \SFFACECODE of FD with FACECODE) (RETURN SIZE)))))) (0 (RETURN NIL)) NIL)
(SETFILEPTR WSTRM NEXT)))
      (HELP])
 (RPAQ? INTERPRESSFONTDIRECTORIES '("{Erinyes}<Lyric>Fonts>"))
 (DECLARE%: EVAL@COMPILE
 (PUTPROPS \POSITIONFONTFILE MACRO
             ((WSTRM NSMICASIZE FIRSTCHAR LASTCHAR FAMILY FACECODE) (* gbn "25-Jul-85 02:15")
                                                                                    sets FIRSTCHAR LASTCHAR, and positions the file correctly
              ;; Finds the widths information for the specified FAMILY, FACECODE, MSIZE, and ROTATION. FIRSTCHAR and LASTCHAR are
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```
;; passed in since we have to read past those to check the size. If successful, returns the size found in the widths file, with zero indicating
;; that dimensions in the widths file are relative, leaving the file pointing just after the Rotation word of the font. --- Returns NIL if the ;; font is not found
(bind type length size famcode filefam fileface (next \_ 0) first (or (setq famcode (\FamilyCode (or family t)
               (RETURN NIL))
       (SETQ TYPE (\BIN WSTRM))
        (SETQ LENGTH (\BIN WSTRM))
        (add NEXT (LLSH (IPLUS LENGTH (LLSH (LOGAND TYPE 15)
                             1))
        (SELECTQ (LRSH TYPE 4)
              (4 (SETQ FILEFAM (\BIN WSTRM))
                  (SETQ FILEFACE (\BIN WSTRM))
                                                                      ; This is the right family/face
                  [COND
                      ((OR (EQ FAMILY T)
                             (EQ FAMILY NIL)
                             (AND (IEQP FILEFAM FAMCODE)
                                   (IEQP FILEFACE FACECODE)))
                       (SETQ FIRSTCHAR (\BIN WSTRM))
(SETQ LASTCHAR (\BIN WSTRM))
                       (COND
                           ((AND (OR (ZEROP (SETQ SIZE (\WIN WSTRM)))
(LESSP (ABS (FQUOTIENT (IDIFFERENCE NSMICASIZE SIZE)
                                                                 NSMICASIZE))
                                                 0.02))
                                   (ZEROP (\WIN WSTRM)))
                             (RETURN SIZE])
              (0 (RETURN NIL))
             NIL)
        (SETFILEPTR WSTRM NEXT))))
```

(PUTPROPS **AFONT COPYRIGHT** ("Venue & Xerox Corporation" 1984 1985 1986 1987 1990))

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