

File created: 15-Jul-88 16:33:54 {MCS:MCS:STANFORD}<LANE>READDISPLAYFONT.;2

changes to: (VARS READDISPLAYFONTCOMS)

previous date: 3-May-88 10:33:05 {MCS:MCS:STANFORD}<LANE>READDISPLAYFONT.;1

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

```
::  
::  
:: Copyright (c) 1988 by Stanford University. All rights reserved.
```

(RPAQQ **READDISPLAYFONTCOMS**

```
(( * Redefinition of DISPLAY font functions to facilitate addition of new font types)  
(FNS \READDISPLAYFONTFILE FONTFILEFORMAT)  
(ADDVARS (DISPLAYFONTTYPES (AC \READACFONTFILE)  
      (STRIKE \READSTRIKEFONTFILE)))  
(GLOBALVARS DISPLAYFONTTYPES)  
(DECLARE%: DONTCOPY (RECORDS DISPLAYFONTTYPE)))
```

(\* \* Redefinition of DISPLAY font functions to facilitate addition of new font types)

(DEFINEQ

(**READDISPLAYFONTFILE**

```
[LAMBDA (FAMILY SIZE FACE ROTATION DEVICE CHARSET) ; Edited 3-May-88 10:31 by cdl  
(DECLARE (GLOBALVARS DISPLAYFONTEXTENSIONS DISPLAYFONTDIRECTORIES))  
(bind FONTFILE FONTTYPE CSINFO STREAM for EXTENSION inside DISPLAYFONTEXTENSIONS  
  when (SETQ FONTFILE (\FINDFONTFILE FAMILY SIZE FACE ROTATION DEVICE CHARSET DISPLAYFONTDIRECTORIES  
    (LIST EXTENSION)))  
  do ; (* Use CLOSE? to avoid redundant CLOSEF in AC font file case)  
    (RESETLST  
      [RESETSAVE NIL `(CLOSEF? , (SETQ STREAM (OPENSTREAM FONTFILE 'INPUT)  
        (if (SETQ FONTTYPE (ASSOC (FONTFILEFORMAT STREAM T)  
          DISPLAYFONTTYPES))  
          then (SETQ CSINFO (with DISPLAYFONTTYPE FONTTYPE (APPLY* READFN STREAM FAMILY SIZE FACE)))  
          else (SHOULDNT)))  
      (RETURN CSINFO)])
```

(**FONTFILEFORMAT**

```
[LAMBDA (STREAM LEAVEOPEN) ; Edited 3-May-88 10:26 by cdl  
  (* Returns the font format of STREAM)  
  [OR (OPENP STREAM 'INPUT)  
    (SETQ STREAM (OPENSTREAM STREAM 'INPUT)  
    (PROG1 (OR (LET [(EXTENSION (FILENAMEFIELD (FULLNAME STREAM)  
      'EXTENSION])  
    (* AC and Strike files count on side effects of this function so we have to handle them separately for now)
```

```
      (if (AND [NOT (FMEMB EXTENSION ' (AC STRIKE]  
        (ASSOC EXTENSION DISPLAYFONTTYPES))  
        then EXTENSION))  
      (SELECTC (\WIN STREAM)  
        ((LIST (LLSH 1 15)  
          (LOGOR (LLSH 1 15)  
            (LLSH 1 13)))
```

(\* If high bit of type is on, then must be strike. If 2nd bit is on, must be strike-index, and we punt.  
We don't care about the 3rd bit)

(\* first word has high bits (onebit index fixed)%. Onebit means "new-style font" %, index is 0 for simple strike, 1 for index,  
and fixed is if all chars have max width. Lisp doesn't care about "fixed")

```
  ' STRIKE)  
  ((LOGOR (LLSH 16 8)  
    12)
```

(\* This is the length of a standard index header. Other files could also have this value, but it's a pretty good discriminator)

(\* Skip to byte 25; do it with BINS so works for non-randaccesssp devices.  
This skips the standard name header, then look for type 3 in the following header)

```
(FRPTQ 22 (\BIN STREAM)) ; (* (SETFILEPTR STREAM 25))  
(AND (EQ 3 (LRSH (\BIN STREAM)  
  4))  
  ' AC))
```

```
{MEDLEY}<obsolete>lispusers>READDISPLAYFONT.;1  (FONTFILEFORMAT cont.)
```

Page 2

```
      NIL))
      (OR LEAVEOPEN (CLOSEF STREAM))))))

)

(ADDTOTVAR DISPLAYFONTTYPES (AC \READACFONTFILE)
          (STRIKE \READSTRIKEFONTFILE))

(DECLARE%: DOEVAL@COMPILE DONTCOPY

(GLOBALVARS DISPLAYFONTTYPES)
)

(DECLARE%: DONTCOPY

(DECLARE%: EVAL@COMPILE

(RECORD DISPLAYFONTTYPE (TYPE READFN))
)
)

(PUTPROPS READDISPLAYFONT COPYRIGHT ("Stanford University" 1988))
```

FUNCTION INDEX

|                      |   |                            |   |
|----------------------|---|----------------------------|---|
| FONTFILEFORMAT ..... | 1 | \READDISPLAYFONTFILE ..... | 1 |
|----------------------|---|----------------------------|---|

RECORD INDEX

|                       |   |
|-----------------------|---|
| DISPLAYFONTTYPE ..... | 2 |
|-----------------------|---|

VARIABLE INDEX

|                        |   |
|------------------------|---|
| DISPLAYFONTTYPES ..... | 2 |
|------------------------|---|