

NAME

tfmtodit - create font files for use with groff -Tdvi

SYNOPSIS

nr a 1

tfmtodit [**-sv**] [**-g***gf_file*] [**-k***skewchar*] *tfm_file map_file font*

DESCRIPTION

tfmtodit creates a font file for use with **groff -Tdvi**. *tfm_file* is the name of the T_EX font metric file for the font. *map_file* is a file giving the groff names for characters in the font; this file should consist of a sequence of lines of the form:

```
n c1 c2 ...
```

where *n* is a decimal integer giving the position of the character in the font, and *c1*, *c2*,... are the groff names of the character. If a character has no groff names but exists in the tfm file, then it will be put in the groff font file as an unnamed character. *font* is the name of the groff font file. The groff font file is written to *font*.

The **-s** option should be given if the font is special (a font is *special* if **troff** should search it whenever a character is not found in the current font.) If the font is special, it should be listed in the **fonts** command in the DESC file; if it is not special, there is no need to list it, since **troff** can automatically mount it when it's first used.

To do a good job of math typesetting, groff requires font metric information not present in the tfm file. The reason for this is that T_EX has separate math italic fonts whereas groff uses normal italic fonts for math. The additional information required by groff is given by the two arguments to the **math_fit** macro in the Metafont programs for the Computer Modern fonts. In a text font (a font for which **math_fitting** is false), Metafont normally ignores these two arguments. Metafont can be made to put this information in the gf file by loading the following definition after **cmbase** when creating **cm.base**:

```
def ignore_math_fit(expr left_adjustment,right_adjustment) =
special "adjustment";
numspecial left_adjustment*16/designsize;
numspecial right_adjustment*16/designsize;
enddef;
```

For the EC font family, load the following definition after **exbase** (it is probably easiest to patch **exbase.mf** locally):

```
def ignore_math_fit(expr left_adjustment,right_adjustment) =
ori_special "adjustment";
ori_numspecial left_adjustment*16/designsize;
ori_numspecial right_adjustment*16/designsize;
enddef;
```

The gf file created using this modified **cm.base** or **exbase** should be specified with the **-g** option. The **-g** option should not be given for a font for which **math_fitting** is true.

OPTIONS

It is possible to have whitespace between a command line option and its parameter.

- v** Print the version number.
- s** The font is special. The effect of this option is to add the **special** command to the font file.
- kn** The skewchar of this font is at position *n*. *n* should be an integer; it may be given in decimal, or with a leading **0** in octal, or with a leading **0x** in hexadecimal. The effect of this option is to ignore any kerns whose second component is the specified character.
- g***gf_file*
gf_file is a gf file produced by Metafont containing special and numspecial commands giving additional font metric information.

FILES

`/usr/share/groff/1.22.3/font/devdvi/DESC` Device description file.

`/usr/share/groff/1.22.3/font/devdvi/F` Font description file for font *F*.

SEE ALSO

[groff\(1\)](#), [grodvi\(1\)](#), [groff_font\(5\)](#)

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