

**Name**

groffp – *groff* output driver for Canon CaPSL printers

**Synopsis**

```
groffp [-l] [-c num-copies] [-F font-directory] [-o orientation] [-p paper-format] [-w width] [file ...]
groffp [--copies=num-copies] [--fontdir=font-directory] [--landscape] [--linewidth=width]
      [--orientation=orientation] [--papersize=paper-format] [file ...]
```

**groffp -h**

**groffp --help**

**groffp -v**

**groffp --version**

**Description**

This GNU *roff* output driver translates the output of *troff*(1) into a CaPSL and VDM format suitable for Canon LBP-4 and LBP-8 printers. Normally, *groffp* is invoked by *groff*(1) when the latter is given the “-T **lbp**” option. (In this installation, **ps** is the default output device.) Use *groff*’s -P option to pass any options shown above to *groffp*. If no *file* arguments are given, or if *file* is “-”, *groffp* reads the standard input stream. Output is written to the standard output stream.

**Typefaces**

The driver supports the Dutch, Swiss, and Swiss-Narrow scalable typefaces, each in the regular, bold, italic, and bold-italic styles. Additionally, the bitmapped, monospaced Courier and Elite typefaces are available in regular, bold, and italic styles; Courier at 8 and 12 points, Elite at 8 and 10 points. The following chart summarizes the *groff* font names used to access them.

Typeface	Roman	Bold	Italic	Bold-Italic
Dutch	TR	TB	TI	TBI
Swiss	HR	HB	HI	HBI
Swiss Narrow	HNR	HNB	HNI	HNBI
Courier	CR	CB	CI	
Elite	ER	EB	EI	

**Paper format, orientation, and device description file**

*groffp* supports paper formats “A4”, “**letter**”, “**legal**”, and “**executive**”. These are matched case-insensitively. The -p, --papersize option overrides any setting in the device description file *DESC*. If neither specifies a paper format, A4 is assumed.

In its *DESC* file, *groffp* (case-insensitively) recognizes an **orientation** directive accepting one mandatory argument, **portrait** or **landscape**. The first valid orientation directive encountered controls. The -l, -o, and --orientation command-line options override any setting in *DESC*. If none of the foregoing specify the orientation, portrait is assumed.

**Font description files**

In addition to the font description file directives documented in *groff\_font*(5), *groffp* recognizes **lbpname**, which maps the *groff* font name to the font name used internally by the printer. Its syntax is as follows.

```
lbpname printer-font-name
```

**lbpname**’s argument is case-sensitive. The printer’s font names are encoded as follows.

For bitmapped fonts, *printer-font\_name* has the form

```
N<base-font-name><font-style>
```

*base-font-name* is the font name as it appears in the printer’s font listings without the first letter, up to (but not including) the font size. *font-style* can be one of the letters **R**, **I**, or **B**, indicating the roman, italic, and bold styles, respectively. For instance, if the printer’s “font listing A” shows “Nelite12I.ISO\_USA”, the corresponding entry in the *groff* font description file is

```
lbpname NeliteI
```

You may need to modify *groffp* to add support for new bitmapped fonts, since the available font names and font sizes of bitmapped fonts (as documented above) are hard-coded into the program.

For scalable fonts, *printer-font-name* is identical to the font name as it appears in the printer’s “font listing A”. For instance, to select the “Swiss” font in bold-italic style, which appears in the font listing as “Swiss–BoldOblique”,

```
lbpname Swiss–BoldOblique
```

is the required directive, and this is what we find in the *groff* font description file *HBI* for the **lbp** device.

### Drawing commands

For compatibility with *grolj4*(1), an additional drawing command is available.

**VD'R** *dh dv*'

Draw a rule (solid black rectangle) with one corner at the drawing position, and the diagonally opposite corner at the drawing position +(*dh*,*dv*).

### Options

**-h** and **--help** display a usage message, while **-v** and **--version** show version information; all exit afterward.

**-c** *num-copies*

**--copies=***num-copies*

Produce *num-copies* copies of each page.

**-F** *font-directory*

**--fontdir=***font-directory*

Prepend directory *font-directory/devname* to the search path for font and device description files; *name* is the name of the device, usually **lbp**.

**-l**

**--landscape**

Format the document in landscape orientation.

**-o** *orientation*

**--orientation=***orientation*

Format the document in the given *orientation*, which must be “**portrait**” or “**landscape**”.

**-p** *paper-format*

**--papersize=***paper-format*

Set the paper format to *paper-format*, which must be a valid paper format as described above.

**-w** *width*

**--linewidth=***width*

Set the default line thickness to *width* thousandths of an em; the default is **40** (0.04 em).

### Environment

*GROFF\_FONT\_PATH*

lists directories in which to seek the selected output device’s directory of device and font description files. See *troff*(1) and *groff\_font*(5).

### Files

*/usr/local/share/groff/1.23.0/font/devlbp/DESC*

describes the **lbp** output device.

*/usr/local/share/groff/1.23.0/font/devlbp/F*

describes the font known as *F* on device **lbp**.

*/usr/local/share/groff/1.23.0/tmac/lbp.tmac*

defines macros for use with the **lbp** output device. It is automatically loaded by *troffrc* when the **lbp** output device is selected.

### See also

*groff*(1), *troff*(1), *groff\_out*(5), *groff\_font*(5), *groff\_char*(7)