

Name

`grolbp` – *groff* output driver for Canon CaPSL printers

Synopsis

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

```
grolbp -h
grolbp --help

grolbp -v
grolbp --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, *grolbp* 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 *grolbp*. If no *file* arguments are given, or if *file* is “-”, *grolbp* 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

grolbp 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, *grolbp* (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), *grolbp* 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 *grolbp* 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.

\D'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)