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***Rocky Enterprise Linux 9.2 Manual Pages on command 'foomatic-rip.1'***

**\$ man foomatic-rip.1**

FOOMATIC-RIP(1)

General Commands Manual

FOOMATIC-RIP(1)

## NAME

foomatic-rip - Universal print filter/RIP wrapper

## SYNOPSIS

General Options:

foomatic-rip [-v] [-q] <mode-specific options>

Spooler-less printing filter:

foomatic-rip [-P <printer> | --ppd <ppdfile> ] [-J <jobtitle> ] [-o <option>=<value> [...] ] [<files>]

CUPS filter:

foomatic-rip <jobid> <user> <jobtitle> <numcopies> <options> [<file>]

## DESCRIPTION

foomatic-rip is a universal print filter which can be used as CUPS filter or stand-alone

for spooler-less, direct printing. It has the following features:

? It translates PostScript and PDF from standard input or a file to the printer's native language on standard output.

? The translation is done with an external renderer, usually Ghostscript (gs(1)). If no translation is needed (PostScript printer) the renderer's command line reduces to cat(1). The way how this translation is done is described in a PPD file.

? Printer capabilities, how to handle user options, and how to build the renderer command line is always described by PPD files, these PPD files usually come from Foomatic or can be the ones supplied by the manufacturers of PostScript printers. The PPD files are the

same for both CUPS and direct printing.

? foomatic-rip works with CUPS and for direct printing (without spooler), where the latter is mainly for testing and debugging. The mode is selected by the command line options and environment variables which are supplied to foomatic-rip.

? foomatic-rip does not only apply option settings supplied by the user through the command line of the printing command, but also searches the entire job for embedded option settings (only PostScript jobs). Here not only settings which affect the whole job are taken into account, but also settings in the page headers, which are only valid for the page where they were found, so applications which produce PostScript code with page-specific printer option settings are fully supported.

## DIRECT, SPOOLER-LESS PRINTING

### Options

-v verbose mode for debugging. WARNING: This will create a file in /tmp that contains the debugging information. This opens a security loophole and should not be used in production.

-q quiet mode - minimal information output

-P <printer>

<printer> is the configured printer which should be used for this job.

--ppd <ppdfile>

The PPD file <ppdfile> should be applied for processing this job.

-o <option>=<value>

Option settings for this job.

<files> The file(s) to be printed.

foomatic-rip will print from standard input unless at least one file to be printed is specified on the command line. If your printer PPD file is stored as /etc/direct/<printer>.ppd or ~/.foomatic/direct/<printer>.ppd you can use it by simply specifying "-P <printer>".

Put a line

\*FoomaticRIPPostPipe: "| <command>"

into the PPD file, right after \*PPD-Adobe: "4.3", where <command> is a command into which you want to re-direct the output data. Due to the restrictions of PPD files <, >, and " are not allowed in the <command>, replace them as follows:

-----  
< &lt;  
> &gt;  
" &quot;  
' &apos;  
& &amp;

This way you can print directly to your printer, use

\*FoomaticRIPPostPipe: "| cat &gt; /dev/lp0"

or

\*FoomaticRIPPostPipe: "| cat &gt; /dev/usb/lp0"

for local parallel or USB printers. To make normal users able to print this way add them

to the group lp and make sure that the appropriate printer device file /dev/... is group-writable for the lp group.

for a TCP/Socket/JetDirect printer with the host name printer listening on port 9100 you need this:

\*FoomaticRIPPostPipe: "| /usr/bin/nc -w 1 printer 9100"

Note the "-w 1" in the "nc" command line, it makes "nc" exiting immediately after the data is transferred to the printer.

\*FoomaticRIPPostPipe: "| rlpr -Plp@printserver"

directs your jobs to the LPD printer queue lp on the machine named printserver.

See also <http://www.openprinting.org/direct-doc.html>

## PRINTING WITH SPOOLER

See the documentation on the OpenPrinting Web site: <http://www.openprinting.org/>

## CONFIGURATION FILE

The file /etc/cups/foomatic-rip.conf or if it is not readable the file /etc/foomatic/filter.conf is read whenever foomatic-rip is executed. It allows one to configure the behavior of foomatic-rip as follows (lines beginning with # are comments and therefore get ignored):

debug: 0|1

Turns on (1) or off (0) the debug mode. This is equivalent to supplying the --debug command line option. Default setting is 0.

echo: [<path>/]<executable>

Sets the path to an echo(1) executable which supports -n.

gspath: [<path>]/<executable>

Sets the path to the Ghostscript (gs(1)) executable. To be used if Ghostscript is at a non-standard location or if an alternative Ghostscript should be used.

execpath: <path>[:<path>]...

Sets the \$PATH variable to be used by foomatic-rip.

cupsfilterpath: <path>[:<path>]...

Sets the directories (colon-separated) in which foomatic-rip searches for CUPS filters.

preferred\_shell: [<path>]/<executable>

Sets the preferred shell to use when executing FoomaticRIPCommandLine and friends. Several PPD files use shell constructs that require a more modern shell like bash, zsh, or ksh.

## FILES

/etc/cups/ppd/<printer>.ppd

/etc/direct/<printer>.ppd

The PPD files of the currently defined printers

/etc/cups/foomatic-rip.conf

/etc/foomatic/filter.conf

Configuration file for foomatic-rip

## EXIT STATUS

foomatic-rip returns 0 unless something unexpected happens.

## AUTHOR

Till Kamppeter <till.kamppeter@gmail.com> with parts of Manfred Wassmann's <manolo@NCC-1701.B.Shuttle.de> man pages for the Foomatic 2.0.x filters.

## BUGS

None so far.

Please send bug reports to the OpenPrinting bug tracker:

<http://bugs.linuxfoundation.org/>

Use "OpenPrinting" as the product and "cups-filters" as the component.