

NAME

foo2zjs-wrapper – Convert Postscript into a ZJS printer stream

SYNOPSIS

foo2zjs-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2zjs-wrapper is a Foomatic compatible printer wrapper for the **foo2zjs** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Zenographics ZjStream printer format for driving the Minolta/QMS 2300 DL network color laser printer and other Zenographics-based printers.

This script can be used in a standalone fashion, but is intended to be called from a printer spooler system which uses the Foomatic printer database.

COMMAND LINE OPTIONS**Normal Options**

These are the options used to select the parameters of a print job that are usually controlled on a per job basis.

-c Print in color (else monochrome).

-C *colormode*

Color correction mode [0].

- 1 Photos (using m2300w CRDs)
- 2 Photos and text (using m2300w CRDs)
- 3 Graphics and text (using m2300w CRDs)
- 10 ICM color profile (using -G *.icm file)

-d *duplex*

Duplex code to send to printer [1].

| 1 off | 2 long edge | 3 short edge

-m *media*

Media code to send to printer [1].

	2300DL	2200DL	HP 1018	HP P1102	HP
Media	HP 1005		HP 1020	HP P1606	CP1025
	-z0	-z0	-z1	-z2	-z3
standard	1	1	1	1	1
transparency	2	2	2	2	2
envelope	257	na	267	267	267
letterhead	259	na	513	513	513
bond	na	na	260	260	260
thick	261	4	261	na	na
postcard	262	na	na	na	na
rough	na	na	263	263	263
heavy	na	na	262	262	262
labels	263	3	263	265	265
vellum	na	na	273	273	273
medium	na	na	na	282	282
extraheavy	na	na	na	283	283
color	na	na	512	512	512
light	na	na	258	258	258
preprinted	na	na	514	514	514
prepunched	na	na	515	515	515

recycled na na 516 516 516

-p *paper*

Paper size code to send to printer [1].

	MC 2300DL	HP 1018	HP P1102	HP
Paper	HP 1005	HP 1020	HP P1606	CP1025
	-z0	-z1	-z2	-z3
letter	1	1	1	1
legal	5	5	5	5
executive	7	7	7	7
A4	9	9	9	9
A5	11	11	11	11
B5jis	13	13	13	13
env #10	20	20	20	20
env DL	27	27	27	27
env CL	28	28	28	28
env B5	34	34	34	34
env Monarch	37	37	37	37
postcard (japan)	na	260	43	43
B5iso	na	259	na	na
A6	na	262	70	70
double postcard rotated	na	261	82	82
16k 197x273	na	257	257	257
fanfold german legal	na	258	258	258
16k 184x260	na	na	263	263
16k 195x270	na	na	264	264
photo 4x6	na	na	na	268
photo 5x8	na	na	na	269
photo 10x15	na	na	na	270

-n *copies*

Number of copies [1].

-r *xresxyres*

Set device resolution in pixels/inch [1200x600].

-s *source*

Source (Input Slot) code to send to printer [7].

1	upper	4	manual
2	lower	7	auto

-t Draft mode. Every other pixel is white.**-T** *density*

Print density (1-5). The default is 3 (medium).

-2 -3 -4 -5 -6 -8 -9 -10 -12 -14 -15 -16 -18

Print in N-up. Requires the **psutils** package.

-o *orient*

Orientation used for N-up.

Portrait	-op	(normal)
Landscape	-ol	(rotated 90 degrees anticlockwise)
Seascape	-os	(rotated 90 degrees clockwise)

Printer Tweaking Options

These are the options used to customize the operation of **foo2zjs** for a particular printer.

-u *xoff* *xyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [varies with paper size]. The defaults should work on the 2200DL and 2300DL, and have not been tested on any other printers.

-l *xoff* *xyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [varies with paper size]. The defaults should work on the 2200DL and 2300DL, and have not been tested on any other printers.

-L *mask*

Send the logical clipping values from **-u/-l** in the ZjStream. **foo2zjs-wrapper** always runs Ghostscript with the ideal page dimensions, so that the scale of the image is correct, regardless whether or not the printer has unprintable regions. This option is used to move the position of the clipped image back to where it belongs on the page. The default is to send the amount which was clipped by **-u** and **-l**, and should be good in most cases.

- 0 don't send any logical clipping amounts
- 1 only send Y clipping amount
- 2 only send X clipping amount
- 3 send both X and Y clipping amounts

-P

Do not send START_PLANE codes on monochrome output. May be needed by some monochrome-only printers, such as the HP LaserJet 1000.

-X *padlen*

Add extra zero padding to the end of BID segments. The default is 16 bytes. Padding 16 bytes of zeroes is needed for older ZjStream printers, such as the Minolta 2200DL and HP LaserJet 1000, and seems harmless to newer ones, such as the Minolta 2300DL. So the default should be good for all cases.

-z *model*

Model. Default is 0.

- 0 KM 2300DL / HP 1000 / HP 1005
- 1 HP 1018 / HP 1020 / HP 1022
- 2 HP Pro P1102 / P1566 / P1606dn
- 3 HP Pro CP1025

Color Tweaking Options

These are the options used to control the quality of color output. Color correction is currently a WORK IN PROGRESS.

-g *gsopts*

Additional options to pass to Ghostscript, such as **-g“-dDITHERPPI=nnn”**, etc. This option may appear more than once.

-G *profile.icm*

Convert *profile.icm* to a Postscript color rendering dictionary (CRD) using **foo2zjs-icc2ps** and adjust the printer colors by using the Postscript **setcolorrendering** operator. (WORK IN PROGRESS).

-G *gamma-file.ps*

Prepend *gamma-file.ps* to the Postscript input to perform color correction using the **setcolortransfer** Postscript operator. For example, the file might contain:
{0.333 exp} {0.333 exp} {0.333 exp} {0.333 exp} setcolortransfer

-I *intent*

Select profile intent from the ICM file. 0=Perceptual, 1=Colorimetric, 2=Saturation, 3=Absolute. Default is 0 (perceptual).

Debugging Options

These options are used for debugging **foo2zjs** and its wrapper.

-S *plane*

Output just a single color plane from a color print and print it on the black plane. The default is to output all color planes.

- 1 Cyan
- 2 Magenta
- 3 Yellow
- 4 Black

-D *level*

Set Debug level [0].

EXAMPLES

Create a monochrome ZjStream from a Postscript document, examine it, and then print it using a RAW print queue:

```
foo2zjs-wrapper testpage.ps > testpage.zm
zjsdecode < testpage.zm
lpr -P raw testpage.zm
```

Create a color ZjStream stream from a Postscript document:

```
foo2zjs-wrapper -c testpage.ps > testpage.zc
```

FILES

/usr/bin/foo2zjs-wrapper

SEE ALSO

foo2zjs(1), **zjsdecode(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2zjs.rkkda.com/>