

NAME

arm2hpd1 – Add HP download header/trailer to an ARM ELF binary.

SYNOPSIS

arm2hpd1 [*options*] arm-binary.img > hpd1.dl

DESCRIPTION

arm2hpd1 adds an HP download header/trailer to an ARM ELF binary. If the file already has an HP header, just copy it to stdout.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-D *level*

Set Debug level [0].

EXAMPLES

Add an HPDL header to a HP LaserJet 1005.

```
$ arm2hpd1 sihpl005.img > sihpl005.dl
```

FILES

/usr/local/bin/arm2hpd1, **/usr/share/foo2*/firmware/**

SEE ALSO

foo2zjs(1)

AUTHOR

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<http://foo2zjs.rkkda.com/>

NAME

ddstdecode – Decode a Ricoh DDST stream into human readable form.

SYNOPSIS

ddstdecode [*options*] <*ddst-file*

DESCRIPTION

ddstdecode decodes a Ricoh DDST stream into human readable form.

A Ricoh DDST stream is the printer language used by some Ricoh printers. From what I can tell, it is pbmtojbg(1) wrapped with some PjL.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

 Set Debug level [0].

EXAMPLES

Decode an Ricoh DDST stream file created by a Ricoh SP112.

```
$ ddstdecode -h ~/testpage-ricoh-sp112.prn
0:  33%-12345X@PJL
f:  @PJL SET  TIMESTAMP=2017/03/16 16:53:16
37: @PJL SET  FILENAME=testpage.pdf
57: @PJL SET  COMPRESS=JBIG
6f: @PJL SET  USERNAME=rick
87: @PJL SET  COVER=OFF
9b: @PJL SET  HOLD=OFF
ae: @PJL SET  PAGESTATUS=START
c9: @PJL SET  COPIES=1
dc: @PJL SET  MEDIASOURCE=TRAY1
f8: @PJL SET  MEDIATYPE=PLAINRECYCLE
119: @PJL SET  PAPER=LETTER
130: @PJL SET  PAPERWIDTH=5100
14a: @PJL SET  PAPERLENGTH=6600
165: @PJL SET  RESOLUTION=600
17e: @PJL SET  IMAGELEN=60604
197: DDST_JBIG_DATA_BEGIN 60604 bytes
      DL = 0, D = 0, P = 1, - = 0, XY = 5100 x 6600
      L0 = 128, MX = 0, MY = 0
      Order  = 3  ILEAVE SMID
      Options = 72  LRLTWO TPBON
      52 stripes, 0 layers, 1 planes
ee53: DDST_JBIG_DATA_END
ee53: @PJL SET  DOTCOUNT=1765571
ee6e: @PJL SET  PAGESTATUS=END
ee87: @PJL EOJ
ee91:  33%-12345X
```

FILES

/usr/local/bin/ddstdecode

SEE ALSO

foo2ddst-wrapper(1), foo2ddst(1), pbmtojb(1)

AUTHOR

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NAME

foo2ddst-wrapper – Convert Postscript into a DDST printer stream

SYNOPSIS

foo2ddst-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2ddst-wrapper is a Foomatic compatible printer wrapper for the **foo2ddst** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to DDST printer format for driving the Ricoh Aficio SP 112, the Ricoh Aficio SP 201, and other DDST-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.

-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].

Media	Code
plain&recycled	1
paper	2
thin	3
thick	4
recycled	5

-p paper

Paper size code to send to printer [1].

1	letter	5	A4
2	legal	6	A5
3	executive	7	A6
4	invoice(5.5x8.5)	8	B5 JIS
		10	16k 197x273
11	16k 184x260	12	16k 195x270

-n copies

Number of copies [1].

-r xresxyres

Set device resolution in pixels/inch [600x600].

-s source

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

1	upper	2	manual
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-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 **foo2ddst** 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. **foo2ddst-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

Debugging Options

These options are used for debugging **foo2ddst** and its wrapper.

-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:

```
foo2ddst-wrapper testpage.ps > testpage.ddst
ddstdecode < testpage.ddst
lpr -P raw testpage.ddst
```

FILES

/usr/local/bin/foo2ddst-wrapper

SEE ALSO

foo2ddst(1), **ddstdecode(1)**

<https://github.com/madlynx/ricoh-sp100>

AUTHOR

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NAME

foo2ddst – Convert Ghostscript pbmraw into a DDST printer stream

SYNOPSIS

foo2ddst [*options*] <*pbmraw-file*> *ddst-file*

DESCRIPTION

foo2ddst converts Ghostscript pbmraw to monochrome DDST streams, for driving the Ricoh Aficio SP 112, the Ricoh Aficio SP 201, and other DDST-based printers.

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.

-d *duplex*

Duplex code to send to printer [1].

1	off	2	long edge	3	short edge
---	-----	---	-----------	---	------------

-g *xpixxypix*

Set page dimensions in pixels [5100x6600].

-m *media*

Media code to send to printer [1].

Media	Code
plain&recycled	1
paper	2
thin	3
thick	4
recycled	5

-p *paper*

Paper code to send to printer [1].

1	letter	5	A4
2	legal	6	A5
3	executive	7	A6
4	invoice(5.5x8.5)	8	B5 JIS
		10	16k 197x273
11	16k 184x260	12	16k 195x270

-n *copies*

Number of copies [1].

-r *xresxyres*

Set device resolution in pixels/inch [600x600].

-s *source*

Source (InputSlot) code to send to printer [7].

1	tray 1	2	manual
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-t

Draft mode. Every other pixel is white.

-T *density*

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

-J *filename*
 Filename string to send to printer.

-U *username*
 Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2ddst** for a particular printer.

-u *xoff xloff*
 Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoff xloff*
 Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L *mask*
 Send logical clipping amounts implied by -u/-l in the ZjStream [3].

- 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

-A AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.

-B BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

Debugging Options

These options are used for debugging **foo2ddst**.

-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 black and white DDST stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2ddst -r1200x600 -g10200x6600 -p1 >testpage.zm
```

FILES

/usr/local/bin/foo2ddst

SEE ALSO

foo2ddst-wrapper(1), ddstddecode(1)
<https://github.com/madlynx/ricoh-sp100>

AUTHOR

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NAME

foo2hbpl2-wrapper – Convert Postscript into a ZJS printer stream

SYNOPSIS

foo2hbpl2-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2hbpl2-wrapper is a Foomatic compatible printer wrapper for the **foo2hbpl2** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Zenographics ZjStream printer format for driving the Dell 1355, Dell C1765, Epson AcuLaser M1400, Epson AcuLaser CX17NF, Fuji Xerox DocuPrint CM205, Fuji Xerox DocuPrint CM215, Fuji Xerox DocuPrint P205, Xerox Phaser 3010, Xerox Phaser 3040, Xerox WorkCentre 3045 MFP, and Xerox WorkCentre 6015 MFP 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].

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].

Media	HBPL
plain	1
bond	2
lwcad	3
lwgcard	4
labels	5
envelope	6
recycled	7
plain2	8
bond2	9
lwcad2	10
lwgcard2	11
recycled2	12

-p *paper*

Paper size code to send to printer [1].

Paper	HBPL
A4	1
B5jis	2
A5	3

letter	4
executive	5
fanfold german legal	6
folio	6
legal	7
env#10	9
envMonarch	10
envC5	11
envDL	12

-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 **foo2hbpl2** for a particular printer.

-u *xoffxyoff*

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 *xoffxyoff*

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. **foo2hbpl2-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.

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 **foo2hbp12** 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:

```
foo2hbp12-wrapper testpage.ps > testpage.prn
hbp12decode < testpage.prn
lpr -P raw testpage.prn
```

Create a color ZjStream stream from a Postscript document:

```
foo2hbp12-wrapper -c testpage.ps > testpage.prn
```

FILES

/usr/local/bin/foo2hbpl2-wrapper

SEE ALSO

foo2hbpl2(1), hbpldecode(1)

AUTHOR

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NAME

foo2hbp12 – Convert Ghostscript pbmraw or bitcmyk format into a ZJS printer stream

SYNOPSIS

foo2hbp12 [*options*] <*pbmraw-file*> *hbpl2-file*

foo2hbp12 [*options*] <*bitcmyk-file*> *hbpl2-file*

foo2hbp12 [*options*] <*pksmraw-file*> *hbpl2-file*

DESCRIPTION

foo2hbp12 converts Ghostscript pbmraw, bitcmyk, or pksmraw output formats to monochrome or color HBPL version 2 streams, for driving the Dell 1355, Dell C1765, Epson AcuLaser M1400, Epson AcuLaser CX17NF, Fuji Xerox DocuPrint CM205, Fuji Xerox DocuPrint CM215, Fuji Xerox DocuPrint M215, Fuji Xerox DocuPrint P205, Xerox Phaser 3010, Xerox Phaser 3040, Xerox WorkCentre 3045 MFP, and Xerox WorkCentre 6015 MFP printers.

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 Force color mode if autodetect doesn't work.

-d *duplex*

Duplex code to send to printer [1].

1	off	2	long edge	3	short edge
---	-----	---	-----------	---	------------

-g *xpixxypix*

Set page dimensions in pixels [10200x6600].

-m *media*

Media code to send to printer [1].

Media	HBPL
plain	1
bond	2
lwcad	3
lwgcard	4
labels	5
envelope	6
recycled	7
plain2	8
bond2	9
lwcad2	10
lwgcard2	11
recycled2	12

-p *paper*

Paper code to send to printer [1].

Paper	HBPL
A4	1
B5jis	2
A5	3

letter	4
executive	5
fanfold german legal	6
folio	6
legal	7
env#10	9
envMonarch	10
envC5	11
envDL	12

- n** *copies*
Number of copies [1].
- r** *xresxyres*
Set device resolution in pixels/inch [1200x600].
- s** *source*
Source (InputSlot) code to send to printer [7].

1	upper	4	manual
2	lower	7	auto
- t** Draft mode. Every other pixel is white.
- J** *filename*
Filename string to send to printer.
- U** *username*
Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2hbpl2** for a particular printer.

- u** *xoffxyoff*
Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].
- l** *xoffxyoff*
Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].
- L** *mask*
Send logical clipping amounts implied by -u/-l in the ZjStream [3].

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 black and white only printers, such as the HP LaserJet 1000.
- A** AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.
- B** BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.
- 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.

Debugging Options

These options are used for debugging **foo2hbpl2**.

-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 black and white ZJS stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2hbpl2 -r1200x600 -g10200x6600 -p1 >testpage.zm
```

Create a color ZJS stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g10200x6600 -r1200x600 -sDEVICE=bitcmk
-sOutputFile=- - < testpage.ps
| foo2hbpl2 -r1200x600 -g10200x6600 -p1 >testpage.zc
```

FILES

`/usr/local/bin/foo2hbpl2`

SEE ALSO

`foo2hbpl2-wrapper(1)`, `hbpldecode(1)`

AUTHOR

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NAME

foo2hiperc-wrapper – Convert Postscript into a HIPERC printer stream

SYNOPSIS

foo2hiperc-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2hiperc-wrapper is a Foomatic compatible printer wrapper for the **foo2hiperc** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to the Oki HIPERC printer format for driving the Oki C310dn, C3100, C3200, C3300n, C3400n, C5100n, C5500n, C5600n and the C5800n HIPERC 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].

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 [0].

Media	HIPERC
plain	0
labels	1
transparency	2

-p *paper*

Paper size code to send to printer [2].

1	A4	2	letter
3	legal	-	-
5	A5	6	B5jis
7	A6	8	env Monarch
9	env DL	10	env C5
11	env #10	12	executive
13	env #9	14	legal 13.5"
15	A3	16	tabloid/ledger

-n *copies*

Number of copies [1].

-r *xresxyres*

Set device resolution in pixels/inch [600x600].

-s *source*

Source (Input Slot) code to send to printer [0].

0	auto select		
1	tray1	2	tray2
3	multi	4	manual

-t Draft mode. Every other pixel is white.**-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 **foo2hiperc** for a particular printer.

-u *xoff yoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [varies with paper size].

-l *xoff yoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [varies with paper size].

-L *mask*

Send the logical clipping values from -u/-l in the HIPERC stream. **foo2hiperc-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

-z *model*

Model is 0 for non-A3 sized printers, and 1 for A3/Tabloid/Ledger sized printers (i.e. C810, etc.). The default is 0.

-Z *compressed*

Use uncompressed (0) or compressed (1) JBIG data.

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 **foo2hiperc** 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 HIPERC stream from a Postscript document, examine it, and then print it using nc(1) or netcat(1):

```
foo2hiperc-wrapper testpage.ps > testpage.hc
hipercdecode < testpage.hc
nc 192.168.1.NNN 9100 < testpage.hc
```

Create a color HIPERC stream from a Postscript document:

```
foo2hiperc-wrapper -c testpage.ps > testpage.hc
```

FILES

/usr/local/bin/foo2hiperc-wrapper

SEE ALSO

foo2hiperc(1), **hipercdecode(1)**

AUTHOR

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NAME

foo2hiperc – Convert Ghostscript pbmraw or bitcmk format into a HIPERC printer stream

SYNOPSIS

foo2hiperc [*options*] <*pbmraw-file*> *hiperc-file*

foo2hiperc [*options*] <*bitcmk-file*> *hiperc-file*

foo2hiperc [*options*] <*pksmraw-file*> *hiperc-file*

DESCRIPTION

foo2hiperc converts Ghostscript pbmraw, bitcmk, or pksmraw output formats to monochrome or color HIPERC streams, for driving the Oki C310dn, C3100, C3200, C3300n, C3400n, C5100n, C5500n, C5600n, and the C5800n HIPERC printers.

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 Force color mode if autodetect doesn't work.

-d duplex

Duplex code to send to printer [1].

1	off	2	long edge	3	short edge
---	-----	---	-----------	---	------------

-g xpixxypix

Set page dimensions in pixels [5100x6600].

-m media

Media code to send to printer [0].

Media	HIPERC
plain	0
labels	1
transparency	2

-p paper

Paper code to send to printer [2].

1	A4	2	letter
3	legal	-	-
5	A5	6	B5jis
7	A6	8	env Monarch
9	env DL	10	env C5
11	env #10	12	executive
13	env #9	14	legal 13.5"
15	A3	16	tabloid/ledger

-n copies

Number of copies [1].

-r xresxyres

Set device resolution in pixels/inch [600x600].

-s source

Source (InputSlot) code to send to printer [0].

0	auto select	2	tray2
1	tray1	4	manual
3	multi		

-t Draft mode. Every other pixel is white.

-J *filename*
Filename string to send to printer.

-U *username*
Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2hiperc** for a particular printer.

-u *xoff* *xyoff*
Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoff* *xyoff*
Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L *mask*
Send logical clipping amounts implied by -u/-l in the HIPERC stream [3].

- 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

-A AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.

-B BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

-Z *compressed*
Use uncompressed (0) or compressed (1) JBIG data.

Debugging Options

These options are used for debugging **foo2hiperc**.

-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 black and white HIPERC stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r600x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2hiperc -r600x600 -g5100x6600 -p0 >testpage.zm
```

Create a color HIPERC stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g5100x6600 -r600x600 -sDEVICE=bitcmk
-sOutputFile=- - < testpage.ps
```

```
| foo2hiperc -r600x600 -g5100x6600 -p0 >testpage.zc
```

FILES

`/usr/local/bin/foo2hiperc`

SEE ALSO

`foo2hiperc-wrapper(1)`, `hipercdecode(1)`

AUTHOR

Rick Richardson <rick.richardson@comcast.com>
<http://foo2hiperc.rkkda.com/>

NAME

foo2hp – Convert Ghostscript pbmraw or bitcmk format into a ZJS printer stream

SYNOPSIS

foo2hp [*options*] <*pbmraw-file*> >*zjs-file*

foo2hp [*options*] <*bitcmk-file*> >*zjs-file*

foo2hp [*options*] <*cups-file*> >*zjs-file*

DESCRIPTION

foo2hp converts Ghostscript pbmraw, bitcmk, or cups output formats to monochrome or color ZJS streams, for driving the Hewlett-Packard 2600n color laser printer and other Zenographics-based printers.

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.

-b *bits* Bits per plane if autodetect doesn't work (1 or 2) [1].

-c Force color mode if autodetect doesn't work.

-d *duplex*

Duplex code to send to printer [1].

| 1 off | 2 long edge | 3 short edge

-g *xpixxypix*

Set page dimensions in pixels [10200x6600].

-m *media*

Media code to send to printer [1].

Media	HPLJ 2600n
plain	1
preprinted	514
letterhead	513
transparency	2
prepunched	515
labels	265
bond	260
recycled	516
color	512
tough	276
envelope	267
light	258
heavy	262
cardstock	261
lightglossy	268
glossy	269
heavyglossy	270
cover	277
photo	278

-p *paper*

Paper code to send to printer [1].

1	letter	9	A4
5	legal	11	A5
7	executive	13	B5jis
20	env #10	27	env DL
28	env C5	34	env B5
37	env Monarch		

-n *copies*

Number of copies [1].

-r *xresxyres*

Set device resolution in pixels/inch [600x600].

-s *source*

Source (InputSlot) code to send to printer [7].

1	tray 2	7	auto
2	tray 1		

-t Draft mode. Every other pixel is white.**-J** *filename*

Filename string to send to printer.

-U *username*

Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2hp** for a particular printer.

-u *xoffxyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoffxyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L *mask*

Send logical clipping amounts implied by -u/-l in the ZjStream [3].

- 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

-O *c,m,y,k*

Alignment of CMYK in rows. The default is 0,0,0,0.

-P Do not send START_PLANE codes on monochrome output. May be needed by some black and white only printers, such as the HP LaserJet 1000.**-A** AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmyk input only.**-B** BlackClears: K=1 forces C,M,Y to 0. Works with bitcmyk input only.**-X** *padlen*

Add extra zero padding to the end of BID segments. The default is 16 bytes.

Debugging Options

These options are used for debugging **foo2hp**.

-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 black and white ZJS stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r600x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2hp -r600x600 -g5100x6600 -p1 >testpage.zm
```

Create a color ZJS stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g5100x6600 -r600x600 -sDEVICE=bitcmyk
-sOutputFile=- - < testpage.ps
| foo2hp -r600x600 -g5100x6600 -p1 >testpage.zc
```

FILES

/usr/local/bin/foo2hp

SEE ALSO

foo2hp2600-wrapper(1), **zjsdecode(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2hp.rkkda.com/>

NAME

foo2hp2600-wrapper – Convert Postscript into a ZJS printer stream

SYNOPSIS

foo2hp2600-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2hp2600-wrapper is a Foomatic compatible printer wrapper for the **foo2hp** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Zenographics ZjStream printer format for driving the Hewlett-Packard 2600n 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.

-b *bits* Number of bits per plane. 1 or 2. [1].

-c Print in color (else monochrome).

-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].

Media	HPLJ 2600n
plain	1
preprinted	514
letterhead	513
transparency	2
prepunched	515
labels	265
bond	260
recycled	516
color	512
tough	276
envelope	267
light	258
heavy	262
cardstock	261
lightglossy	268
glossy	269
heavyglossy	270
cover	277
photo	278

-p *paper*

Paper size code to send to printer [1].

1	letter	9	A4
5	legal	11	A5
7	executive	13	B5jis
20	env #10	27	env DL
28	env C5	34	env B5
37	env Monarch		

-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	tray 2	4	manual/tray 1
2	tray 3	7	auto

-t Draft mode. Every other pixel is white.**-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 **foo2hp** for a particular printer.

-u *xoffxyoff*

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 *xoffxyoff*

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. **foo2hp2600-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

-O *parm=val*

Alignment of CMYK. *parm* is c, m, y, or k. *val* is in rows. Multiple options are allowed. The default is "-Oc=0 -Om=0 -Oy=0 -Ok=0".

-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: Model: 0=HP CLJ 1600/2600n; 1=HP CLJ CP1215

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. If *profile.icm* is none.icm, then prepare for ordering a ICM custom printer profile (i.e. from www.ICCFactory.com).

-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 **foo2hp** 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:

```
foo2hp2600-wrapper testpage.ps > testpage.zm
zjsdecode < testpage.zm
lpr -P raw testpage.zm
```

Create a color ZjStream stream from a Postscript document:

```
foo2hp2600-wrapper -c testpage.ps > testpage.zc
```

FILES

/usr/local/bin/foo2hp2600-wrapper

SEE ALSO

foo2hp(1), zjsdecode(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2hp.rkkda.com/>

NAME

foo2lava-wrapper – Convert Postscript into a LAVAFLOW or OPL printer stream

SYNOPSIS

foo2lava-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2lava-wrapper is a Foomatic compatible printer wrapper for the **foo2lava** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Zenographics LAVAFLOW printer format for driving the Konica Minolta magicolor 1600W color laser printer, the Konica Minolta magicolor 1680MF/1690MF AIO printer, the Konica Minolta magicolor 2480/2490 MF AIO printer, the Konica Minolta magicolor 2530 DL network color laser printer, and other Zenographics-based LAVAFLOW 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 [0].

Media	2530DL
plain	0
transparency	4
thick stock	20
envelope	22
letterhead	23
postcard	25
labels	26
recycled	27

-p *paper*

Paper size code to send to printer [2].

1	executive	25	A5
2	letter	26	A4
3	legal	45	B5jis
80	env Monarch	65	B5iso
81	env #10	90	env DL
91	env C5	92	env B5
835	4x6" photo	837	10x15cm photo

-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 [255].

1	Tray 1	255	auto
4	Tray 2		

-t Draft mode. Every other pixel is white.**-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 **foo2lava** for a particular printer.

-u *xoff yoff*

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 yoff*

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 LAVAFLOW stream. **foo2lava-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

-z *model*

Model. The default is [0].

model	protocol	Description
0	LAVAFLOW	magicolor 2490 MF

0	LAVAFLOW	magicolor 2530 DL
1	OPL	magicolor 2480 MF
2	LAVAFLOW	magicolor 1600W
2	LAVAFLOW	magicolor 1680MF
2	LAVAFLOW	magicolor 1690MF

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 **foo2lava** 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 LAVAFLOW stream from a Postscript document, examine it, and then print it using a RAW print queue:

```
foo2lava-wrapper testpage.ps > testpage.zm
lavadecode < testpage.zm
lpr -P raw testpage.zm
```

Create a color LAVAFLOW stream from a Postscript document:

```
foo2lava-wrapper -c testpage.ps > testpage.zc
```

FILES

/usr/local/bin/foo2lava-wrapper

SEE ALSO

foo2lava(1), lavadecode(1) opldecode(1)

AUTHOR

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

NAME

foo2lava – Convert Ghostscript pbmraw or bitcmk format into a LAVAFLOW or a OPL printer stream

SYNOPSIS

foo2lava [*options*] <*pbmraw-file*> >*lava-file*

foo2lava [*options*] <*bitcmk-file*> >*lava-file*

foo2lava [*options*] <*pksmraw-file*> >*lava-file*

DESCRIPTION

foo2lava converts Ghostscript pbmraw, bitcmk, or pksmraw output formats to monochrome or color LAVAFLOW or OPL streams, for driving the Konica Minolta magicolor 2530 DL network color laser printer, the Konica Minolta magicolor 2480/2480 MF AIO printer, and other Zenographics-based LAVAFLOW printers.

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 Force color mode if autodetect doesn't work.

-d duplex

Duplex code to send to printer [1].

| 1 off | 2 long edge | 3 short edge

-g xpixxypix

Set page dimensions in pixels [10200x6600].

-m media

Media code to send to printer [0].

Media	2530DL
plain	0
transparency	4
thick stock	20
envelope	22
letterhead	23
postcard	25
labels	26
recycled	27

-p paper

Paper code to send to printer [2].

1	executive	25	A5
2	letter	26	A4
3	legal	45	B5jis
80	env Monarch	65	B5iso
81	env #10	90	env DL
91	env C5	92	env C6
835	4x6" photo	837	10x15cm photo

- n** *copies*
Number of copies [1].
- r** *xresxyres*
Set device resolution in pixels/inch [1200x600].
- s** *source*
Source (InputSlot) code to send to printer [255].

1	Tray 1	255	auto
4	Tray 2		
- t** Draft mode. Every other pixel is white.
- J** *filename*
Filename string to send to printer.
- U** *username*
Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2lava** for a particular printer.

- u** *xoffxyoff*
Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].
- l** *xoffxyoff*
Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].
- L** *mask*
Send logical clipping amounts implied by -u/-l in the LAVAFLOW stream [3].

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
- A** AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmyk input only.
- B** BlackClears: K=1 forces C,M,Y to 0. Works with bitcmyk input only.
- z** *model*
Model. The default is [0].

model	protocol	Description
0	LAVAFLOW	magicolor 2490 MF
0	LAVAFLOW	magicolor 2530 DL
1	OPL	magicolor 2480 MF
2	LAVAFLOW	magicolor 1600W
2	LAVAFLOW	magicolor 1680MF
2	LAVAFLOW	magicolor 1690MF

Debugging Options

These options are used for debugging **foo2lava**.

- 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 black and white LAVAFLow stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2lava -r1200x600 -g10200x6600 -p1 >testpage.zm
```

Create a color LAVAFLow stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g10200x6600 -r1200x600 -sDEVICE=bitcmk
-sOutputFile=- - < testpage.ps
| foo2lava -r1200x600 -g10200x6600 -p1 >testpage.zc
```

FILES

/usr/local/bin/foo2lava

SEE ALSO

foo2lava-wrapper(1), lavadecode(1)

AUTHOR

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<http://foo2zjs.rkkda.com/>

NAME

foo2oak-wrapper – Convert Postscript into an OAKT printer stream

SYNOPSIS

foo2oak-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2oak-wrapper is a Foomatic compatible printer wrapper for the **foo2oak** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Oak Technology OAKT printer format for driving the HP Color LaserJet 1500 laser printer, Kyocera KM-1636/KM-2035 copiers, and other OAKT-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.

-b *bits* Number of bits per plane (1 or 2) [1].

-c Print in color (else monochrome).

-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].

Media	HP CLJ 1500	KM-1635
	-z0	-z1
autoselect	0	0
plain	1	1
preprinted	2	2
letterhead	3	3
transparency	4	4
prepunched	5	5
labels	6	6
bond	7	7
recycled	8	8
color	9	9
cardstock	10	10
envelope	11	11
light	13	na
tough	14	na
vellum	na	15
rough	na	16
thick	na	19
highqual	na	20

-p *paper*

Paper size code to send to printer [1].

1	letter	3	ledger
5	legal	6	statement
7	executive	8	A3
9	A4	11	A5
12	B4	13	B5jis
14	folio	19	env9
20	env10	27	envDL
28	envC5	30	envC4
37	envMonarch	257	A6
258	B6	259	B5iso
260	env6		

-n *copies*

Number of copies [1].

-r *xresxyres*

Set device resolution in pixels/inch [600x600].

-s *source*

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

1	tray1	2	tray2
4	manual	7	auto

-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 **foo2oak** for a particular printer.

-u *xoffxyoff*

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 *xoffxyoff*

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 OAKT stream. **foo2oak-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

-z *model*

Model is 0 for the HP Color LaserJet 1500, and 1 for the Kyocera KM-1635/KM-2035 copiers. The default is 0.

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 **foo2oak** 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 OAKT stream from a Postscript document, examine it, and then print it using a RAW print queue:

```
foo2oak-wrapper testpage.ps > testpage.oak
oakdecode < testpage.oak
lpr -P raw testpage.oak
```

Create a color OAKT stream from a Postscript document:

```
foo2oak-wrapper -c testpage.ps > testpage.oak
```

FILES

/usr/local/bin/foo2oak-wrapper

SEE ALSO

foo2oak(1), **oak(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2oak.rkkda.com/>

NAME

foo2oak – Convert Ghostscript pbmraw, pgmraw or bitcmrk format into an OAKT printer stream

SYNOPSIS

foo2oak [*options*] <*pbmraw-file*> *OAKT-file*

foo2oak [*options*] <*pgmraw-file*> *OAKT-file*

foo2oak [*options*] <*bitcmrk-file*> *OAKT-file*

DESCRIPTION

foo2oak converts Ghostscript pbmraw or bitcmrk output formats to monochrome or color OAKT streams, for driving the HP Color LaserJet 1500 laser printer, Kyocera KM-1636/KM-2035 copiers, and other OAKT-based printers.

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 Force color mode if autodetect doesn't work.

-d duplex

Duplex code to send to printer [1].

1 off | 2 long edge | 3 short edge

-g xpixxypix

Set page dimensions in pixels [10200x6600].

-m media

Media code to send to printer [1].

Media	Code
autoselect	0
plain	1
preprinted	2
letterhead	3
transparency	4
prepunched	5
labels	6
bond	7
recycled	8
color	9
cardstock	10
envelope	11
light	13
tough	14
vellum	15
rough	16
thick	19
highqual	20

-p paper

Paper code to send to printer [1].

1	letter	3	ledger
5	legal	6	statement
7	executive	8	A3
9	A4	11	A5
12	B4	13	B5jis
14	folio	19	env9
20	env10	27	envDL
28	envC5	30	envC4
37	envMonarch	257	A6
258	B6	259	B5iso
260	env6		

-n *copies*

Number of copies [1].

-r *xresxyres*

Set device resolution in pixels/inch [600x600].

-s *source*

Source (InputSlot) code to send to printer [7].

1	tray1	2	tray2
4	manual	7	auto

-J *filename*

Filename string to send to printer.

-U *username*

Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2oak** for a particular printer.

-u *xoffxyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoffxyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L *mask*

Send logical clipping amounts implied by -u/-l in the OAKT stream [3].

- 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

-A AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.

-B BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

-M *mirror*

Mirror bytes. Mirror is 0 for Kyocera KM-1635/KM-2035 and 1 for the HP Color LaserJet 1500. The default is 1.

-z *model*

Model is 0 for the HP Color LaserJet 1500, and 1 for the Kyocera KM-1635/KM-2035 copiers. The default is 0.

Debugging Options

These options are used for debugging **foo2oak**.

-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 black and white OAKT stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r600x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2oak -r600x600 -g5100x6600 -p1 >testpage.oak
```

Create a color OAKT stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g5100x6600 -r600x600 -sDEVICE=bitcmyk
-sOutputFile=- - < testpage.ps
| foo2oak -r600x600 -g5100x6600 -p1 >testpage.oak
```

FILES

/usr/local/bin/foo2oak

SEE ALSO

foo2oak-wrapper(1), oakdecode(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2oak.rkkda.com/>

NAME

foo2qpdf-wrapper – Convert Postscript into a QPDL printer stream

SYNOPSIS

foo2qpdf-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2qpdf-wrapper is a Foomatic compatible printer wrapper for the **foo2qpdf** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Samsung/Xerox QPDL printer format for driving the Samsung CLP-300, CLX-2160, CLX-3160, CLP-315, CLX-3175, CLP-600, CLP-610, CLP-620, CLP-360, CLP-365, and Xerox Phaser 6110 QPDL 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 CRD

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 [0].

Media	QPDL
plain	0
thick	1
thin	2
bond	3
color	4
card	5
labels	6
envelope	7
preprinted	8
cotton	9
recycled	10
transparency	11
archive	12

-p *paper*

Paper size code to send to printer [0].

0	letter	1	legal
2	A4	3	executive
6	env #10	7	env Monarch
8	env C5	9	env DL
11	B5jis	12	B5iso
16	A5	17	A6
23	env C6	24	folio
25	env 6.75	26	env #9
28	oficio		

-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 [255].

1	auto	2	manual
3	multi	4	tray1

-t Draft mode. Every other pixel is white.**-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 **foo2qpdf** for a particular printer.

-u *xoffxyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [varies with paper size].

-l *xoffxyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [varies with paper size].

-L *mask*

Send the logical clipping values from -u/-l in the QPDL stream. **foo2qpdf-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

-z *model*

Printer model. Model 0 is the default.

model	Description
0	CLP-300, CLX-2160, CLX-3160

- 1 CLP-600
- 2 CLP-310, CLP-315, CLP-610, CLX-3175
- 3 CLP-620, CLP-360, CLP-365

Color Tweaking Options

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

-a *parm=val*

Color Adjust. *parm* is b, c, s, cr, mg, yb for brightness, contrast, saturation, cyan-red balance, magenta-green balance, and yellow-blue balance. *val* is 0 to 100. Multiple options are allowed. The default is "-ab=50 -ac=50 -as=50 -acr=50 -amg=50 -ayb=50". This only works when the -z3 (e.g. CLP-365) model is set!

-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 **foo2qpdf** 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 QPDF stream from a Postscript document, examine it, and then print it using a RAW print queue:

```
foo2qpdf-wrapper testpage.ps > testpage.zm
qpdfdecode < testpage.zm
lpr -P raw testpage.zm
```

Create a color QPDF stream from a Postscript document:

```
foo2qpdf-wrapper -c testpage.ps > testpage.zc
```

FILES

/usr/local/bin/foo2qpdL-wrapper

SEE ALSO

foo2qpdL(1), qpdLdecode(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2qpdL.rkkda.com/>

NAME

foo2qpd1 – Convert Ghostscript pbmraw or bitcmk format into a QPDL printer stream

SYNOPSIS

foo2qpd1 [*options*] <*pbmraw-file*> *qpd1-file*

foo2qpd1 [*options*] <*bitcmk-file*> *qpd1-file*

foo2qpd1 [*options*] <*pksmraw-file*> *qpd1-file*

DESCRIPTION

foo2qpd1 converts Ghostscript pbmraw, bitcmk, or pksmraw output formats to monochrome or color QPDL streams, for driving the Samsung CLP-300, CLX-2160, CLP-600, CLX-3160, CLP-610 CLP-620, CLP-360, CLP-365, and the Xerox Phaser 6110 QPDL printers.

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 Force color mode if autodetect doesn't work.

-d duplex

Duplex code to send to printer [1].

1 off | 2 long edge | 3 short edge

-g xpixxypix

Set page dimensions in pixels [10200x6600].

-m media

Media code to send to printer [0].

Media	QPDL
plain	0
thick	1
thin	2
bond	3
color	4
card	5
labels	6
envelope	7
preprinted	8
cotton	9
recycled	10
transparency	11
archive	12

-p paper

Paper code to send to printer [0].

0	letter	1	legal
2	A4	3	executive
6	env #10	7	env Monarch
8	env C5	9	env DL
11	B5jis	12	B5iso
16	A5	17	A6
23	env C6	24	folio
25	env 6.75	26	env #9
28	oficio	21	custom

-n *copies*

Number of copies [1].

-r *xresxyres*

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

-s *source*

Source (InputSlot) code to send to printer [255].

1	auto	2	manual
3	multi	4	tray1

-t Draft mode. Every other pixel is white.

-J *filename*

Filename string to send to printer.

-U *username*

Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2qpd1** for a particular printer.

-a *b,c,s,cr,mg,yb*

Color Adjust: brightness, contrast, saturation, cyan-red balance, magenta-green balance, and yellow-blue balance from 0 to 100. The default is 50,50,50,50,50,50. This only works when the -z3 (e.g. CLP-365) model is set!

-u *xoffxyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoffxyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L *mask*

Send logical clipping amounts implied by -u/-l in the QPDL stream [3].

- 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

-A AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.

-B BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

-z *model*

Printer model. Model 0 is the default.

model	Description
0	CLP-300, CLX-2160, CLX-3160
1	CLP-600
2	CLP-310, CLP-315, CLP-610, CLX-3175
3	CLP-620, CLP-360, CLP-365

Debugging Options

These options are used for debugging **foo2qpdf**.

-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 black and white QPDF stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2qpdf -r1200x600 -g10200x6600 -p0 >testpage.zm
```

Create a color QPDF stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g10200x6600 -r1200x600 -sDEVICE=bitcmk
-sOutputFile=- - < testpage.ps
| foo2qpdf -r1200x600 -g10200x6600 -p0 >testpage.zc
```

FILES

/usr/local/bin/foo2qpdf

SEE ALSO

foo2qpdf-wrapper(1), **qpdfdecode(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.com>
<http://foo2qpdf.rkkda.com/>

NAME

foo2slx-wrapper – Convert Postscript into a SLX printer stream

SYNOPSIS

foo2slx-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2slx-wrapper is a Foomatic compatible printer wrapper for the **foo2slx** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to Software Imaging K.K. SLX printer format for driving the Lexmark C500 network color laser printer and other SLX-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).

-m *media*

Media code to send to printer [0].

Media	SLX
plain	0
transparency	1
labels	2
thick1	3
envelope1	4
thin	5
thick2	6
envelope2	7
middle	8
special	9

-p *paper*

Paper size code to send to printer [6].

6	letter	2	A4
9	legal	4	B5
8	executive	5	B5iso
10	env #10	11	env DL

-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 [0].

0	auto	1	cassette1
---	------	---	-----------

-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 **foo2slx** for a particular printer.

-u xoff yoff

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 yoff

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. **foo2slx-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

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 **foo2slx** 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:

```
foo2slx-wrapper testpage.ps > testpage.zm
slxdecode < testpage.zm
lpr -P raw testpage.zm
```

Create a color ZjStream stream from a Postscript document:

```
foo2slx-wrapper -c testpage.ps > testpage.zc
```

FILES

/usr/local/bin/foo2slx-wrapper

SEE ALSO

foo2slx(1), **slxdecode(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2slx.rkkda.com/>

NAME

foo2slx – Convert Ghostscript pbmraw or bitcmrk format into a SLX printer stream

SYNOPSIS

foo2slx [*options*] <*pbmraw-file*> *slx-file*

foo2slx [*options*] <*bitcmrk-file*> *slx-file*

foo2slx [*options*] <*pksmraw-file*> *slx-file*

DESCRIPTION

foo2slx converts Ghostscript pbmraw, bitcmrk, or pksmraw output formats to monochrome or color SLX streams, for driving the Lexmark C500 network color laser printer and other SLZ-based printers. The SLX stream is a variant of ZjStream produced by Software Imaging K.K.

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 Force color mode if autodetect doesn't work.

-g *xpixxypix*
Set page dimensions in pixels [10200x6600].

-m *media*
Media code to send to printer [0].

Media	SLX
plain	0
transparency	1
labels	2
thick1	3
envelope1	4
thin	5
thick2	6
envelope2	7
middle	8
special	9

-p *paper*
Paper code to send to printer [6].

6	letter	2	A4
9	legal	4	B5
8	executive	5	B5iso
10	env #10	11	env DL

-n *copies*
Number of copies [1].

-r *xresxyres*
Set device resolution in pixels/inch [1200x600].

-s *source*
Source (InputSlot) code to send to printer [0].

| 0 auto | 1 cassette1

Printer Tweaking Options

These are the options used to customize the operation of **foo2slx** for a particular printer.

-u *xoff* *xyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoff* *xyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L *mask*

Send logical clipping amounts implied by -u/-l in the ZjStream [3].

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

-A AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.

-B BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

Debugging Options

These options are used for debugging **foo2slx**.

-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 black and white SLX stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2slx -r1200x600 -g10200x6600 -p1 >testpage.zm
```

Create a color SLX stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g10200x6600 -r1200x600 -sDEVICE=bitcmk
-sOutputFile=- - < testpage.ps
| foo2slx -r1200x600 -g10200x6600 -p1 >testpage.zc
```

FILES

/usr/local/bin/foo2slx

SEE ALSO

foo2slx-wrapper(1), **slxdecode(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
http://foo2slx.rkkda.com/

NAME

foo2xqx-wrapper – Convert Postscript into a XQX printer stream

SYNOPSIS

foo2xqx-wrapper [*options*] [*ps-file*]

DESCRIPTION

foo2xqx-wrapper is a Foomatic compatible printer wrapper for the **foo2xqx** printer driver. This script reads a Postscript *ps-file* or standard input and converts it to XQX printer format for driving the HP LaserJet P1005/P1006/P1007/P1008, the HP LaserJet P1505, the HP LaserJet P2014, the HP LaserJet M1005 MFP, the HP LaserJet M1120 MFP, the HP LaserJet Pro M1132s MFP, the HP LaserJet Pro M1212nf MFP, and other XQX-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.

-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].

Media	M1005
standard	1
transparency	2
envelope	257
letterhead	259
thick	261
postcard	262
labels	263

-p paper

Paper size code to send to printer [1].

1	letter	9	A4
5	legal	11	A5
7	executive	13	B5
20	env #10	27	env DL
28	env C5	34	env B5
37	env Monarch	257	16k 197x273
263	16k 184x260	263	16k 195x270

-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 **foo2xqx** for a particular printer.

-u *xoff yoff*

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 yoff*

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. **foo2xqx-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

Debugging Options

These options are used for debugging **foo2xqx** and its wrapper.

-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:

```
foo2xqx-wrapper testpage.ps > testpage.xqx
qxdecode < testpage.xqx
lpr -P raw testpage.xqx
```

FILES

/usr/local/bin/foo2xqx-wrapper

SEE ALSO

foo2xqx(1), xqxdecode(1)

AUTHOR

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NAME

foo2xqx – Convert Ghostscript pbmraw into a XQX printer stream

SYNOPSIS

foo2xqx [*options*] <*pbmraw-file*> *xqx-file*

DESCRIPTION

foo2xqx converts Ghostscript pbmraw to monochrome XQX streams, for driving the HP LaserJet P1005/P1006/P1007/P1008, the HP LaserJet P1505, the HP LaserJet P2014, the HP LaserJet M1005 MFP, the HP LaserJet M1120 MFP, the HP LaserJet Pro M1132s MFP, the HP LaserJet Pro M1212nf MFP, and other XQX-based printers.

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.

-d duplex

Duplex code to send to printer [1].

1	off	2	long edge	3	short edge
---	-----	---	-----------	---	------------

-g xpixypix

Set page dimensions in pixels [10200x6600].

-m media

Media code to send to printer [1].

Media	M1005
standard	1
transparency	2
envelope	257
letterhead	259
thick	261
postcard	262
labels	263

-p paper

Paper code to send to printer [1].

1	letter	9	A4
5	legal	11	A5
7	executive	13	B5
20	env #10	27	env DL
28	env C5	34	env B5
37	env Monarch	257	16k 197x273
263	16k 184x260	264	16k 195x270

-n copies

Number of copies [1].

-r xresxyres

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

-s source

Source (InputSlot) 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).
- J *filename***
Filename string to send to printer.
- U *username***
Username string to send to printer.

Printer Tweaking Options

These are the options used to customize the operation of **foo2xqx** for a particular printer.

- u *xoff* *xyoff***
Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].
- l *xoff* *xyoff***
Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].
- L *mask***
Send logical clipping amounts implied by -u/-l in the ZjStream [3].
 - 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
- A** AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.
- B** BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

Debugging Options

These options are used for debugging **foo2xqx**.

- 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 black and white XQX stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2xqx -r1200x600 -g10200x6600 -p1 >testpage.zm
```

FILES

/usr/local/bin/foo2xqx

SEE ALSO

foo2xqx-wrapper(1), xqxdecode(1)

AUTHOR

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NAME

foo2zjs-pstops – Add PS code for foo2*-wrapper

SYNOPSIS

foo2zjs-pstops [*options*] [*file*]

DESCRIPTION

Add PS code for foo2zjs-wrapper.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

- a** Accurate screens code.
- c** CIE Color.
- n** Neuter CUPS cupsPSLevel2
- r** Rotate 90 degrees clockwise.
- w** Well Tempered Screens code.
- D level**
Set Debug level [0].

FILES

/usr/local/bin/foo2zjs-pstops

SEE ALSO

foo2hp2600-wrapper(1), **foo2lava-wrapper(1)**, **foo2oak-wrapper(1)**, **foo2qpdf-wrapper(1)**, **foo2slx-wrapper(1)**, **foo2xqx-wrapper(1)**, **foo2zjs-wrapper(1)**

AUTHOR

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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].

Paper	MC 2300DL	HP 1018	HP P1102	HP
	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 -18Print 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/local/bin/foo2zjs-wrapper

SEE ALSO

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

AUTHOR

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<http://foo2zjs.rkkda.com/>

NAME

foo2zjs – Convert Ghostscript pbmraw or bitcmk format into a ZJS printer stream

SYNOPSIS

foo2zjs [options] <pbmraw-file> >zjs-file

foo2zjs [options] <bitcmk-file> >zjs-file

foo2zjs [options] <pksmraw-file> >zjs-file

DESCRIPTION

foo2zjs converts Ghostscript pbmraw, bitcmk, or pksmraw output formats to monochrome or color ZJS streams, for driving the Minolta/QMS 2300 DL network color laser printer and other Zenographics-based printers.

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 Force color mode if autodetect doesn't work.

-d duplex
Duplex code to send to printer [1].
| 1 off | 2 long edge | 3 short edge

-g xpixxpix
Set page dimensions in pixels [10200x6600].

-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 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 (InputSlot) 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).

-J *filename*

Filename string to send to printer.

-U *username*

Username string to send to printer.

Printer Tweaking OptionsThese are the options used to customize the operation of **foo2zjs** for a particular printer.**-u** *xoffxyoff*

Set the offset of the start of the printable region from the upper left corner, in pixels [0x0].

-l *xoffxyoff*

Set the offset of the end of the printable region from the lower right corner, in pixels [0x0].

-L mask

Send logical clipping amounts implied by -u/-l in the ZjStream [3].

- 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 black and white only printers, such as the HP LaserJet 1000.

-A AllIsBlack: convert C=1,M=1,Y=1 to just K=1. Works with bitcmk input only.

-B BlackClears: K=1 forces C,M,Y to 0. Works with bitcmk input only.

-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

Debugging Options

These options are used for debugging **foo2zjs**.

-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 black and white ZJS stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -r1200x600 -sDEVICE=pbmraw
-sOutputFile=- - < testpage.ps
| foo2zjs -r1200x600 -g10200x6600 -p1 >testpage.zm
```

Create a color ZJS stream:

```
gs -q -dBATCH -dSAFER -dQUIET -dNOPAUSE
-sPAPERSIZE=letter -g10200x6600 -r1200x600 -sDEVICE=bitcmk
-sOutputFile=- - < testpage.ps
| foo2zjs -r1200x600 -g10200x6600 -p1 >testpage.zc
```

FILES

/usr/local/bin/foo2zjs

SEE ALSO

foo2zjs-wrapper(1), **zjsdecode(1)**

AUTHOR

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<http://foo2zjs.rkkda.com/>

NAME

gipdddecode – Decode a GIPD stream into human readable form.

SYNOPSIS

gipdddecode [*options*] <*gipd-file*

DESCRIPTION

gipdddecode decodes a Granite Image Printer Driver (GIPD) stream into human readable form. Granite Systems was acquired by Monotype Imaging.

A GIPD stream is the printer language used by the Lexmark X500 and the Dell 1125 MFP printers.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

 Set Debug level [0].

EXAMPLES

Decode an GIPD stream file.

```
$ gipdddecode -h x500-mono.prn
  0: OFST    0      len=128
 80: OFST    1      len=128
100: OFST    2      len=128
180: OFST    3      len=128
200: OFST    4      len=128
    [SNIP]
27d80: OFST  1275    len=128
27e00: \033%-12345X@PJL SET DISPINFOWHILEPRINT=OFF
27e2a: @PJL SET DISPATPAPERCHANG=OFF
27e49: @PJL SET JAMRECOVERY=ON
27e62: @PJL SET OUTPUTBLANKPAPER=OFF
27e81: @PJL SET PRINTSLOWLY=OFF
27e9b: @PJL SET REVERSEPRINT=OFF
27eb6: \033%-12345X
27ebf: GDIJ      len=108
      unk0=0, unk1=0, unk2=0, unk3=0, unk4=0
      unk5=16777221(0x1000005), unk6=0, unk7=0, unk8=0, paper=0
      0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
27f37: GDIP      len=52
      nplane = 1, w254 = 4896, h254 = 6110
      132018de, 0, 0, 0, 0, 1000000, 0, 0, 0, 0, 0, 0, 0,
27f77: GDIB      0      len=60 (0x3c)
27fcb: GDIB      1      len=252 (0xfc)
280df: GDIB      2      len=124 (0x7c)
28173: GDIB      3      len=956 (0x3bc)
28547: GDIB      4      len=1692 (0x69c)
28bfb: GDIB      5      len=572 (0x23c)
```

28e4f:	GDIB	6	len=17084 (0x42bc)
2d123:	GDIB	7	len=18108 (0x46bc)
317f7:	GDIB	8	len=8508 (0x213c)
3394b:	GDIB	9	len=1756 (0x6dc)
3403f:	GDIB	10	len=1596 (0x63c)
34693:	GDIB	11	len=892 (0x37c)
34a27:	GDIB	12	len=2332 (0x91c)
3535b:	GDIB	13	len=8380 (0x20bc)
3742f:	GDIB	14	len=3452 (0xd7c)
381c3:	GDIB	15	len=60 (0x3c)
38217:	GDIB	16	len=1468 (0x5bc)
387eb:	GDIB	17	len=2076 (0x81c)
3901f:	GDIB	18	len=284 (0x11c)
39153:	GDIB	19	len=1660 (0x67c)
397e7:	GDIB	20	len=2908 (0xb5c)
3a35b:	GDIB	21	len=156 (0x9c)
3a40f:	GDIB	22	len=188 (0xbc)
3a4e3:	GDIB	23	len=220 (0xdc)
3a5d7:	GDIB	24	len=60 (0x3c)
3a62b:	PIDG		
3a637:	JIDG		
Total Size = 75843 (0x12843)			

FILES

/usr/local/bin/gipdddecode

AUTHOR

Rick Richardson <rick.richardson@comcast.net>

NAME

hbpldecode – Decode a HBPL stream into human readable form.

SYNOPSIS

hbpldecode [*options*] <*hbpl-file*

DESCRIPTION

hbpldecode decodes a HBPL stream into human readable form. HBPL is Host Based Printer Language.

There are two versions of HBPL in existence.

Version one is an HBPL stream with JBIG2 (?) data. This data is used by the Dell 1250c, Dell C1660w, Epson AcuLaser C1700, Fuji-Xerox cp105b, and similar printers. These printers are unsupported.

Version two is an HBPL stream with JBIG encoded data. This data is used by the Xerox WorkCentre 6015, Fuji Xerox DocuPrint CM205, Dell 1355c, and similar printers. These printers are supported by foo2hbpl2-wrapper et al.

Both versions can be decoded by hbpldecode.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

Set Debug level [0].

EXAMPLES

Decode an HBPL stream file, version 1.

```
$ hbpldecode -h 1250c-mono.prn
0:      \033%-12345X@PJL JOB MODE=PRINTER
1f:     @PJL SET STRINGCODESET=UTF8
3b:     @PJL COMMENT DATE=06/01/2011
58:     @PJL COMMENT TIME=13:28:30
73:     @PJL COMMENT DNAME=empty - Notepad
96:     @PJL SET JOBATTR="@LUNA=rick"
b4:     @PJL SET COPIES=1
c6:     @PJL SET QTY=1
d5:     @PJL SET JOBATTR="@TRCH=OFF"
f2:     @PJL SET DUPLEX=OFF
106:    @PJL SET BINDING=LONGEDGE
120:    @PJL SET RENDERMODE=GRAYSCALE
13e:    @PJL SET ECONOMODE=OFF
155:    @PJL SET RET=ON
165:    @PJL SET JOBATTR="@IREC=OFF"
182:    @PJL SET JOBATTR="@HOAD=I0A00020F"
1a5:    @PJL SET JOBATTR="@JOAU=rick"
1c3:    @PJL SET JOBATTR="@CNAM=RICK-VB"
1e4:    @PJL SET IWAMANUALDUP=OFF
1fe:    @PJL SET IWAJAMRECOVERY=AUTO
21b:    @PJL SET JOBATTR="@MSIP=NORMAL"
```

```

23b:    @PJL SET PAPERDIRECTION=SEF
257:    @PJL SET RESOLUTION=600
26f:    @PJL SET BITSPERPIXEL=8
287:    @PJL SET JOBATTR="@DRDM=RASTER"
2a7:    @PJL SET JOBATTR="@TCPR=33"
2c3:    @PJL SET JOBATTR="@TUCR=33"
2df:    @PJL SET JOBATTR="@TTRC=33"
2fb:    @PJL SET JOBATTR="@TSCR=33"
317:    @PJL SET JOBATTR="@GCPR=33"
333:    @PJL SET JOBATTR="@GUCR=33"
34f:    @PJL SET JOBATTR="@GTRC=33"
36b:    @PJL SET JOBATTR="@GSCR=33"
387:    @PJL SET JOBATTR="@ICPR=34"
3a3:    @PJL SET JOBATTR="@IUCR=34"
3bf:    @PJL SET JOBATTR="@ITRC=34"
3db:    @PJL SET JOBATTR="@ISCR=34"
3f7:    @PJL SET JOBATTR="@TDFT=0"
412:    @PJL SET JOBATTR="@GDFT=0"
42d:    @PJL SET JOBATTR="@IDFT=0"
448:    @PJL ENTER LANGUAGE=HBPL
461:    RECTYPE 'A' [0x41]:
462:        81 a1: 0x0
465:        82 a2: 0x7
469:        83 a2: 0x1
46d:    RECTYPE 'C' [0x43]:
46e:        91 a1: 0x0
471:        92 a1: 0x1
474:        93 a1: 0x1
477:        94 a1: 0x0
47a:        95 c2: 0x0
480:        96 a1: 0x0
483:        97 c3: 0x0
489:        98 a1: 0x0
48c:        99 a4: 1 [PAGECNT]
492:        9a c4: 5104x6600 [WxH]
49c:        9b a1: 0x0
49f:        9c a1: 0x1
4a2:        9d a1: 0x9
4a5:        9e a1: 0x2
4a8:        9f a1: 0x5
4ab:        a0 a1: 0x8
4ae:        a1 a1: 0x0
4b1:        a2 c4: 5104x6600 [WxH]
4bb:    RECTYPE 'Q' [0x51]:
4bc:    RECTYPE 'R' [0x52]:
4bd:        a3 a1: 0x0
4c0:        a4 a2: 6457 (0x1939) bytes of data...
1dfe:    RECTYPE 'S' [0x53]:
1dff:    RECTYPE 'D' [0x44]:
1e00:    RECTYPE 'B' [0x42]:
1dff:    \033%-12345X@PJL EOJ

```

Decode an HBPL stream file, version 2.

```

$ hbpldecode -h 6015c-color.prn
  0:      33%-12345X@PJL JOB NAME=PRINTER
 20:      @PJL SET JOBATTR="HOST:dual.rkkda.org"
 48:      @PJL SET JOBATTR="USER:rick"
 66:      @PJL SET JOBATTR="DOCU:(stdin)"
 87:      @PJL SET JOBATTR="OWNR:rick"
 a5:      @PJL SET DUPLEX=OFF
 ba:      @PJL SET MEDIASOURCE=0
 d2:      @PJL SET RENDERMODE=COLOR
 ed:      @PJL SET RESOLUTION=600
106:      @PJL SET BITSPERPIXEL=2
11f:      @PJL SET COPIES=1
132:      @PJL ENTER LANGUAGE=HBPL
14c:      RECTYPE JP [Job Parameters]
00000000: 1b 4a 50 04 01 00 00 01 00 00 00 00 00 00 00 00 .JP.....
00000010: b0 bd ac 43 00 f0 cf 08 f4 9f ac 43 59 ba a0 43 ...C.... ..CY..C
00000020: f4 9f ac 43 00 e0 cd 08 9c ba a0 43 00 f0 cf 08 ...C.... ..C....
00000030: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
18c:      RECTYPE PS [Page Start]
00000000: 1b 50 53 3c 00 14 00 00 06 19 00 00 00 78 f4 01 .PS<.... ..x..
00000010: 90 03 00 00 04 01 01 00 58 02 e0 00 00 00 e0 00 ..... X.....
00000020: 00 00 e0 00 00 00 f0 00 00 00 00 00 00 00 00 .....
00000030: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
          w,h=5120x6406 res=600 color=1
          mediatype=Plain(1) papersize=Letter(4)
1cc:      Cyan BIH:
          DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
          L0 = 128, MX = 0, MY = 0
          Order = 0
          Options = 64 LRLTWO
          51 stripes, 0 layers, 1 planes
          ...cyan data skipped...
2ac:      Magenta BIH:
          DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
          L0 = 128, MX = 0, MY = 0
          Order = 0
          Options = 64 LRLTWO
          51 stripes, 0 layers, 1 planes
          ...magenta data skipped...
38c:      Yellow BIH:
          DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
          L0 = 128, MX = 0, MY = 0
          Order = 0
          Options = 64 LRLTWO
          51 stripes, 0 layers, 1 planes
          ...yellow data skipped...
46c:      Black BIH:
          DL = 0, D = 0, P = 1, - = 0, XY = 10240 x 6406
          L0 = 128, MX = 0, MY = 0
          Order = 0
          Options = 64 LRLTWO
          51 stripes, 0 layers, 1 planes
          ...black data skipped...
55c:      RECTYPE PE [Page End]

```



```
00000000: 1b 50 45 3c 00 00 00 00 77 00 00 00 7c 00 00 00 .PE<.... w...|...
00000010: 08 e0 cd 08 00 00 00 00 9c 55 ac bf f4 9f ac 43 ..... .U....C
00000020: e0 a3 ac 43 00 00 00 00 19 00 00 00 75 9e 99 43 ...C.... ..u..C
00000030: 00 21 99 43 00 00 00 00 01 00 00 00 9a 0e 99 43 .!.C.... .....C
59c:      \033%-12345X@PJL EOJ
```

FILES

/usr/local/bin/hbpldecode

SEE ALSO

foo2hbpl2-wrapper(1), foo2hbpl2(1)

AUTHOR

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<http://foo2hbpl.rkkda.com/>

NAME

hipercdecode – Decode a HIPERC stream into human readable form.

SYNOPSIS

hipercdecode [*options*] <*hiperc-file*

DESCRIPTION

hipercdecode decodes a HIPERC stream into human readable form. Uncompressed and JBIG formats are handled.

An HIPERC stream is the printer language used by the Oki Data C310dn, C3100, C3200n, C3250n, C3300n, C3400n, C5100n, C5250n, C5500n, C5600, and the C5800n printers.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

 Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

 Set Debug level [0].

EXAMPLES

Decode an HIPERC stream file created by foo2hiperc.

```
$ foo2hiperc-wrapper testpage.ps | hipercdecode -h
0:      \033%-12345X@PJL
f:      @PJL RDYMSG DISPLAY = "Unknown"
30:     @PJL SET OKIJOBACCOUNTJOB USERID="Unknown" JOBNAME="Unknown"
6e:     @PJL SET OKIAUXJOBINFO DATA="DocumentName=Unknown"
a2:     @PJL SET OKIAUXJOBINFO DATA="ComputerName=dual.rkkda.org"
dd:     @PJL SET OKIAUXJOBINFO DATA="ReceptionTime=00:00:00 2008/01/30"
11e:    @PJL SET OKIAUTOTRAYSWITCH=ON
13d:    @PJL SET OKIPAPERSIZECHECK=ENABLE
160:    @PJL SET RESOLUTION=600
179:    @PJL SET PAPER=LETTER
190:    @PJL SET OKITRAYSEQUENCE=PAPERFEEDTRAY
1b8:    @PJL SET OKIPAPERFEED=TRAY1
1d5:    @PJL SET OKIMEDIATYPE = PLAIN
1f4:    @PJL SET LPARM:PCL OKIPRINTMARGIN=INCH1D6
21f:    @PJL SET COPIES=1
232:    @PJL SET QTY=1
242:    @PJL SET HIPERCEFFECTIVEBLOCKSIZE=34799360
26e:    @PJL ENTER LANGUAGE=HIPERC
289:    RECTYPE 0 (len=52,0x34 cnt=1)
291:    BLKNUM 0, nbie=1, pn=3 [black] uc=0,0, wid=4864 ud=0,100
2a5:    BLKNUM 1 (len=20), uncompressed=1, bie:
DL = 48, D = 48, P = 49, - = 48, XY = 4864 x 6816
L0 = 256, MX = 0, MY = 0
Order  = 0
Options = 0
1 stripes, 0 layers, 49 planes
```

```

2bd:      RECTYPE 1 (len=155668,0x26014 cnt=1)
2c5:      BLKNUM 0 (len=4), plane=3, uc=0,0,0
2cd:      BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
262d1:    RECTYPE 1 (len=155668,0x26014 cnt=2)
262d9:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
262e1:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
4c2e5:    RECTYPE 1 (len=155668,0x26014 cnt=3)
4c2ed:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
4c2f5:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
722f9:    RECTYPE 1 (len=155668,0x26014 cnt=4)
72301:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
72309:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
9830d:    RECTYPE 1 (len=155668,0x26014 cnt=5)
98315:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
9831d:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
be321:    RECTYPE 1 (len=155668,0x26014 cnt=6)
be329:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
be331:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
e4335:    RECTYPE 1 (len=155668,0x26014 cnt=7)
e433d:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
e4345:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
10a349:   RECTYPE 1 (len=155668,0x26014 cnt=8)
10a351:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
10a359:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
13035d:   RECTYPE 1 (len=155668,0x26014 cnt=9)
130365:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
13036d:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
156371:   RECTYPE 1 (len=155668,0x26014 cnt=10)
156379:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
156381:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
17c385:   RECTYPE 1 (len=155668,0x26014 cnt=11)
17c38d:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
17c395:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
1a2399:   RECTYPE 1 (len=155668,0x26014 cnt=12)
1a23a1:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
1a23a9:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
1c83ad:   RECTYPE 1 (len=155668,0x26014 cnt=13)
1c83b5:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
1c83bd:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
1ee3c1:   RECTYPE 1 (len=155668,0x26014 cnt=14)
1ee3c9:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
1ee3d1:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
2143d5:   RECTYPE 1 (len=155668,0x26014 cnt=15)
2143dd:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
2143e5:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
23a3e9:   RECTYPE 1 (len=155668,0x26014 cnt=16)
23a3f1:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
23a3f9:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
2603fd:   RECTYPE 1 (len=155668,0x26014 cnt=17)
260405:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
26040d:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
286411:   RECTYPE 1 (len=155668,0x26014 cnt=18)
286419:   BLKNUM 0 (len=4), plane=3, uc=0,0,0
286421:   BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...

```

```

2ac425:    RECTYPE 1 (len=155668,0x26014 cnt=19)
2ac42d:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
2ac435:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
2d2439:    RECTYPE 1 (len=155668,0x26014 cnt=20)
2d2441:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
2d2449:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
2f844d:    RECTYPE 1 (len=155668,0x26014 cnt=21)
2f8455:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
2f845d:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
31e461:    RECTYPE 1 (len=155668,0x26014 cnt=22)
31e469:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
31e471:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
344475:    RECTYPE 1 (len=155668,0x26014 cnt=23)
34447d:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
344485:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
36a489:    RECTYPE 1 (len=155668,0x26014 cnt=24)
36a491:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
36a499:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
39049d:    RECTYPE 1 (len=155668,0x26014 cnt=25)
3904a5:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
3904ad:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
3b64b1:    RECTYPE 1 (len=155668,0x26014 cnt=26)
3b64b9:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
3b64c1:    BLKNUM 1 (len=155648), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
3dc4c5:    RECTYPE 1 (len=97300,0x17c14 cnt=27)
3dc4cd:    BLKNUM 0 (len=4), plane=3, uc=0,0,0
3dc4d5:    BLKNUM 1 (len=97280), Data=00 00 00 00 00 00 00 00 00 00 00 00 ...
3f40d9:    RECTYPE 255 (len=8,0x8 cnt=28)
3f40e1:    \033%-12345X

```

FILES

/usr/local/bin/hiperdecode

SEE ALSO

foo2hiperc-wrapper(1), foo2hiperc(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2hiperc.rkkda.com/>

NAME

foo2zjs-icc2ps - little cms PostScript converter.

SYNOPSIS

foo2zjs-icc2ps [*options*]

DESCRIPTION

lcms is a standalone CMM engine, which deals with the color management. It implements a fast transformation between ICC profiles. **foo2zjs-icc2ps** is little cms PostScript converter.

COMMAND LINE OPTIONS

- b** Black point compensation (CRD only).
- c <0,1,2>**
Precision (0=LowRes, 1=Normal (default), 2=Hi-res) (CRD only)
- i *profile***
Input profile: Generates Color Space Array (CSA).
- n <gridpoints>**
Alternate way to set precision, number of CLUT points (CRD only)
- o *profile***
Output profile: Generates Color Rendering Dictionary(CRD).
- t <0,1,2,3>**
Intent (0=Perceptual, 1=Colorimetric, 2=Saturation, 3=Absolute).
- u** Do NOT generate resource name on CRD.

FILES

/usr/share/foo2*/icm/*

SEE ALSO

foo2hiperc-wrapper(1), **foo2hp2600-wrapper(1)**, **foo2lava-wrapper(1)**, **foo2oak-wrapper(1)**, **foo2qpdl-wrapper(1)**, **foo2zjs-wrapper(1)**,

AUTHOR

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

NAME

lavadecode – Decode a LAVAFLOW stream into human readable form.

SYNOPSIS

lavadecode [*options*] <*lavaflow-file*

DESCRIPTION

lavadecode decodes a LAVAFLOW stream into human readable form.

A LAVAFLOW stream is the printer language used by some Konica Minolta printers, such as the KM magicolor 2530 DL.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

Set Debug level [0].

EXAMPLES

Decode an LAVAFLOW stream file created by foo2lava.

```
$ lavadecode -h < testpage.prn
0: \033%-12345X@PJL JOB NAME="stdin"
1f: \033%-12345X@PJL JOB USERNAME=""
3d: \033%-12345X@PJL JOB TIMESTAMP="07/20/2007"
66: \033%-12345X@PJL JOB OSINFO="Linux/2.6.20-1.2316.fc5"
99: \033%-12345X@PJL ENTER LANGUAGE=LAVAFLOW
bf: \033E RESET
c1: \033&l0S DUPLEX: [off]
c6: \033&l0G
cb: \033&u1200D X RESOLUTION: [1200]
d3: \033&l1X COPIES: [1]
d8: \033&x1X TRANSMIT ONCE COPIES: [1]
dd: \033&l0O ORIENTATION: [port]
e2: \033*r1U NBIE: [1]
e7: \033*g8W BW/COLOR: [8]
      fmt=2 np=1
      BLACK: X=1200, Y=600, unk=0, #=4(2)
f4: \033*b1234M COMPRESSION: [1234] (JBIG)
fc: \033&l2A PAGE SIZE: [letter]
101: \033&l255H PAPER SOURCE: [auto]
108: \033&l0M MEDIA TYPE: [plain]
10d: \033&l0E TOP MARGIN: [0]
112: \033*r9792S X RASTER: [9792,0x2640]
11a: \033*r6400T Y RASTER: [6400,0x1900]
122: \033&l0U
127: \033&l0Z
12c: \033*p200X X OFFSET: [200]
133: \033*p200Y Y OFFSET: [200]
```

```

13a: \033*r1A      [Page 1]
13f: \033*b20V     [black]
                    DL = 0, D = 0, P = 1, - = 0, XY = 9792 x 6400
                    L0 = 128, MX = 0, MY = 0
                    Order = 3 ILEAVE SMID
                    Options = 92 LRLTWO TPDON TPBON DPON
                    50 stripes, 0 layers, 1 planes
159: \033*b65536V  JBIG data (first) [65536,0x10000]
                    ff 02 c2 79 54 3e be e1 a0 de 08 9a b1 d2 c2 59
... ae 88 ef a7 c7 96 d3 96 a6 d7 2c 06 38 75 22 44
10162: \033*b26432W JBIG data (end) [26432,0x6740]
                    0e 89 66 ce 01 41 41 41 41 41 41 41 41 41 41
... 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
168ab: \033*x3887138K BLACK DOTS: [3887138]
168b6: \033*x58781662W BLACK WHITEDOTS: [58781662]
168c2: \033*rC      END PAGE
168c6: \033&l0H     PAPER SOURCE: [eject]
168cb: \033E        RESET
168cd: \033%-12345X

```

FILES

/usr/local/bin/lavadecode

SEE ALSO

foo2lava-wrapper(1), **foo2lava(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2lava.rkkda.com/>

NAME

oakdecode – Decode an OAKT printer stream into human readable form.

SYNOPSIS

oakdecode [*options*] <*OAKT-file*

DESCRIPTION

oakdecode decodes an OAKT printer stream into human readable form.

An OAKT printer stream is the printer language used by the HP Color LaserJet 1500 and other printers.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Baseline of .pbm file for saving decompressed planes.

-r *basename*

Baseline of .jbg file for saving raw planes

-i Suppress display of image records.

-o Print file offsets.

-D *level*

 Set Debug level [0].

EXAMPLES

Decode an OAKT file created by foo2oak.

```
$ oakdecode < testpage.oak
0d (80) 1 OTHER
0c (64) Wed Nov 05 16:30:50 2003          a07d3    100005    32001e
0a (80) testpage.pdf
14 (16) (no args)
28 (16) Source=Tray1
29 (80) PaperType=0 UNK8=2,0,0,0, blanks(63)
2a (32) Copies=1          UNK=0
2b (32) papercode=25      xwid=4648          ywid=9000          UNK=0
33 (64)
        u0      u1      w      h      resx      resy      nBits
        x0      x0      2128    4300    600      600      x1
15 (16) (no args)
        bih0      w      h      l0      bih5      dlen      plen      unk      yOff      P      subP
3c (64) 00010000 2176 256 256 58030020 1050 1056 000 64 3 0
        DL = 0, D = 0, P = 1, - = 0, XY = 2176 x 256
        L0 = 256, MX = 32, MY = 0
        Order   = 3  ILEAVE SMID
        Options = 88  LRLTWO TPDON TPBON
        1 stripes, 0 layers, 1 planes
3c (64) 00010000 2176 256 256 58030020 3668 3680 000 320 3 0
3c (64) 00010000 2176 256 256 58030020 1463 1472 000 640 3 0
3c (64) 00010000 2176 256 256 58030020 1975 1984 000 896 3 0
3c (64) 00010000 2176 224 224 58030020 2744 2752 000 1152 3 0
3c (64) 00010000 2176 256 256 58030020 988 992 000 1440 3 0
3c (64) 00010000 2176 256 256 58030020 2892 2896 000 1696 3 0
3c (64) 00010000 2176 256 256 58030020 3634 3648 000 1952 3 0
```



```

3c (64) 00010000 2176 256 256 58030020 3236 3248 000 2208 3 0
3c (64) 00010000 2176 256 256 58030020 2279 2288 000 2464 3 0
3c (64) 00010000 2176 256 256 58030020 3746 3760 000 2720 3 0
3c (64) 00010000 2176 200 200 58030020 2404 2416 000 2976 3 0
3c (64) 00010000 2176 256 256 58030020 3114 3120 000 3240 3 0
3c (64) 00010000 2176 96 96 58030020 1142 1152 000 3496 3 0
3c (64) 00010000 2176 256 256 58030020 2094 2112 000 3752 3 0
3c (64) 00010000 2176 256 256 58030020 1319 1328 000 4008 3 0
3c (64) 00010000 2176 36 36 58030020 208 224 000 4264 3 0
17 (16) (no args)
18 (16) UNK=0
0b (16) (no args)

```

FILES

/usr/local/bin/oakdecode

SEE ALSO

foo2oak-wrapper(1), foo2oak(1), jbg2pbm(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2oak.rkkda.com/>

NAME

opldecode – Decode a Raster Object (opl) stream into human readable form.

SYNOPSIS

opldecode [*options*] <*zjs-file*

DESCRIPTION

opldecode decodes a Raster Object (opl) stream into human readable form.

A Raster Object stream is the printer language used by some Konica Minolta printers, such as the KM magicolor 2480 MF.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

 Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

 Set Debug level [0].

EXAMPLES

Decode an Raster Object stream file created by foo2lava-wrapper -z1.

```
$ foo2lava-wrapper -z1 testpage.ps | opldecode -h
```

```
0:      Event=StartOfJob;
11:     OSVersion=WindowsXP;
25:     DrvVersion=2.0.1410.0;
3b:     Resolution=1200x600;
4f:     RasterObject.Compression=JBIG;
6d:     Sides=OneSided;
7c:     MediaSize=custom_size_8.5x11in;
9b:     MediaType=plain;
ab:     MediaInputTrayCheck=top;
c3:     RasterObject.BitsPerPixel=1;
df:     RasterObject.Planes=00FFFF,0,0,0,0,0,0;
106:    RasterObject.Width=9792;
11e:    RasterObject.Height=6400;
137:    RasterObject.Data#20=
```

```
DL = 0, D = 0, P = 1, - = 0, XY = 9792 x 6400
L0 = 128, MX = 0, MY = 0
Order   = 3  ILEAVE SMID
Options = 92  LRLTWO TPDON TPBON DPON
50 stripes, 0 layers, 1 planes
```

```
161:    RasterObject.Data#32768=
817a:   RasterObject.Data#32768=
10193:   RasterObject.Data#3168=
10e0b:   RasterObject.Planes=FF00FF,0,0,0,0,0,0;
10e32:   RasterObject.Width=9792;
10e4a:   RasterObject.Height=6400;
10e63:   RasterObject.Data#20=
```

```

DL = 0, D = 0, P = 1, - = 0, XY = 9792 x 6400
L0 = 128, MX = 0, MY = 0
Order   = 3   ILEAVE SMID
Options = 92   LRLTWO TPDON TPBON DPON
50 stripes, 0 layers, 1 planes
10e8d:   RasterObject.Data#32768=
18ea6:   RasterObject.Data#32768=
20ebf:   RasterObject.Data#19200=
259d8:   RasterObject.Planes=FFFF00,0,0,0,0,0,0,0;
259ff:   RasterObject.Width=9792;
25a17:   RasterObject.Height=6400;
25a30:   RasterObject.Data#20=

DL = 0, D = 0, P = 1, - = 0, XY = 9792 x 6400
L0 = 128, MX = 0, MY = 0
Order   = 3   ILEAVE SMID
Options = 92   LRLTWO TPDON TPBON DPON
50 stripes, 0 layers, 1 planes
25a5a:   RasterObject.Data#32768=
2da73:   RasterObject.Data#32768=
35a8c:   RasterObject.Data#32768=
3daa5:   RasterObject.Data#7056=
3f64d:   RasterObject.Planes=000000,0,0,0,0,0,0,0;
3f674:   RasterObject.Width=9792;
3f68c:   RasterObject.Height=6400;
3f6a5:   RasterObject.Data#20=

DL = 0, D = 0, P = 1, - = 0, XY = 9792 x 6400
L0 = 128, MX = 0, MY = 0
Order   = 3   ILEAVE SMID
Options = 92   LRLTWO TPDON TPBON DPON
50 stripes, 0 layers, 1 planes
3f6cf:   RasterObject.Data#32768=
476e8:   RasterObject.Data#17472=
4bb41:   Event=EndOfPage;
4bb51:   Event=EndOfJob;

```

FILES

/usr/local/bin/opldecode

SEE ALSO

foo2lava-wrapper(1), foo2opl(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2lava.rkkda.com/>

NAME

osx-hplj-hotplug - Daemon for downloading firmware files for Mac OS X

SYNOPSIS

osx-hplj-hotplug [*options*]

DESCRIPTION

osx-hplj-hotplug is a daemon for Mac OS X which watches for Hewlett-Packard LaserJet 1000, 1005, 1018, 1020, P1005, P1006, P1007, P1008, and P1505 being plugged in. If so, then the firmware is downloaded to it.

NOTE: this is not needed by Linux, which has a proper hotplug mechanism.

Here is a **/etc/rc.local** start:

```
# BEGIN osx-hplj-hotplug from foo2zjs
killall osx-hplj-hotplug
osx-hplj-hotplug >/tmp/osx-hplj-hotplug 2>&1 &
# END osx-hplj-hotplug from foo2zjs
```

COMMAND LINE OPTIONS

-D *level*

Set Debug level [0].

FILES

/usr/share/foo2*/firmware/*

SEE ALSO

/etc/rc.local

AUTHOR

Rick Richardson <rick.richardson@comcast.net>

NAME

printer-profile – Profile using X-Rite ColorMunki and Argyll CMS

SYNOPSIS

printer-profile [*options*] manuf model [rgb|cmyk] [patches] [ink-limit]

DESCRIPTION

printer-profile prints a test chart, uses the ColorMunki instrument to scan it in, then computes an ICM profile using the Argyll Color Management System.

Manuf is "sam". Model is "clp-300", "clp-315", "clp-325" or "clp-365".

Manuf is "hp". Model is "2600" or "cp1215".

Manuf is "km". Model is "2300" or "2530".

Manuf is "dell". Model is "1355".

"rgb" is the usual setting. "patches" is a multiple 196 per page.

Edit the script for additional models.

OPTIONS

-b 1|2 Bits per pixel (1)

-r XRESxYRES Resolution. Default="". ()

-P rem-print Remote print (64-bit) machine, or none (amd)

-S rem-scan Remote scan (ColorMunki) machine, or none (mac)

-D lvl Debug level

EXAMPLES

Profile the Samsung clp-315:

```
$ printer-profile sam 315 rgb 196
```

BUGS

gs 8.64 and before has problems with 32-bit machines and color profile data. Don't use!

You need Argyll_V1.5.1 or later.

FILES

/usr/local/bin/printer-profile, /usr/share/foo2*/icm/testing.icm

SEE ALSO

firefox <http://www.xritephoto.com/html/colormunkisplash.htm>

firefox <http://www.argyllcms.com/>

firefox http://www.argyllcms.com/Argyll_V1.5.1_src.zip

AUTHOR

Rick Richardson <rick.richardson@comcast.net>

<http://foo2zjs.rkkda.com/>

NAME

qpdlddecode – Decode a QPDL stream into human readable form.

SYNOPSIS

qpdlddecode [*options*] <*qpdld-file*

DESCRIPTION

qpdlddecode decodes a QPDL stream into human readable form. Only the JBIG compression format (0x13) is handled.

An QPDL stream is the printer language used by the Samsung CLP-300, CLP-600, CLX-3160 and the Xerox Phaser 6110 printers.

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

Set Debug level [0].

EXAMPLES

Decode an QPDL stream file created by foo2qpdld.

```

0:      \033%-12345X@PJL DEFAULT SERVICEDATE=20070212
2c:      @PJL SET USERNAME="Unknown"
49:      @PJL SET JOBNAME="testpage.pdf"
6a:      @PJL SET COLORMODE=COLOR
84:      @PJL SET PAPERTYPE = NORMAL
a1:      @PJL ENTER LANGUAGE = QPDL
bd:      RECTYPE 0x0 len=17
          res=600, copies=1, papersize=letter(0), w=2550, h=3300
          papersource=auto, unk=0, duplex=0:0, unk=0,2, unk=268(0x10c)
ce:      RECTYPE 0xc len=68(0x44)
          stripe=0, WB=1248(0x4e0), H=128(0x80), plane=4, comp=0x13,
          len=56(0x38)
          magic=0x39abcdef, len=20(0x14), unk=0,0,0,0,0,0,
          checksum=0x356
          DL = 0, D = 0, P = 1, - = 0, XY = 9984 x 6400
          L0 = 6400, MX = 0, MY = 0
          Order = 0
          Options = 72 LRLTWO TPBON
          1 stripes, 0 layers, 1 planes
112:     RECTYPE 0xc len=68(0x44)
          stripe=0, WB=1248(0x4e0), H=128(0x80), plane=1, comp=0x13,
          len=56(0x38)
          magic=0x39abcdef, len=20(0x14), unk=0,0,0,0,0,0,
          checksum=0x356
          DL = 0, D = 0, P = 1, - = 0, XY = 9984 x 6400
          L0 = 6400, MX = 0, MY = 0
          Order = 0

```

```

Options = 72  LRLTWO TPBON
1 stripes, 0 layers, 1 planes
156:  RECTYPE 0xc  len=68(0x44)
      stripe=0, WB=1248(0x4e0), H=128(0x80), plane=2, comp=0x13,
      len=56(0x38)
      magic=0x39abcdef, len=20(0x14), unk=0,0,0,0,0,0,
      checksum=0x356
      DL = 0, D = 0, P = 1, - = 0, XY = 9984 x 6400
      L0 = 6400, MX = 0, MY = 0
      Order = 0
      Options = 72  LRLTWO TPBON
      1 stripes, 0 layers, 1 planes
19a:  RECTYPE 0xc  len=68(0x44)
      stripe=0, WB=1248(0x4e0), H=128(0x80), plane=3, comp=0x13,
      len=56(0x38)
      magic=0x39abcdef, len=20(0x14), unk=0,0,0,0,0,0,
      checksum=0x356
      DL = 0, D = 0, P = 1, - = 0, XY = 9984 x 6400
      L0 = 6400, MX = 0, MY = 0
      Order = 0
      Options = 72  LRLTWO TPBON
      1 stripes, 0 layers, 1 planes
1de:  RECTYPE 0xc  len=77488(0x12eb0)
      stripe=1, WB=1248(0x4e0), H=128(0x80), plane=1, comp=0x13,
      len=77476(0x12ea4)
      magic=0x39abcdef, len=77440(0x12e80), unk=2000000,0,0,0,0,0,
      checksum=0x9326d7
1308e: RECTYPE 0xc  len=77680(0x12f70)
      stripe=1, WB=1248(0x4e0), H=128(0x80), plane=2, comp=0x13,
      len=77668(0x12f64)
      magic=0x39abcdef, len=77632(0x12f40), unk=2000000,0,0,0,0,0,
      checksum=0x9367e5
25ffe: RECTYPE 0xc  len=69232(0x10e70)
      stripe=1, WB=1248(0x4e0), H=128(0x80), plane=3, comp=0x13,
      len=69220(0x10e64)
      magic=0x39abcdef, len=69184(0x10e40), unk=2000000,0,0,0,0,0,
      checksum=0x83938a
36e6e: RECTYPE 0xc  len=45616(0xb230)
      stripe=1, WB=1248(0x4e0), H=128(0x80), plane=4, comp=0x13,
      len=45604(0xb224)
      magic=0x39abcdef, len=45568(0xb200), unk=2000000,0,0,0,0,0,
      checksum=0x58015d
4209e: RECTYPE 0x1  len=3
      copies=1
420a1: RECTYPE 0x9  len=0
420a2: \033%-12345X

```

FILES

/usr/local/bin/qpdfdecode

SEE ALSO

foo2qpdf-wrapper(1), foo2qpdf(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2qpdld.rkkda.com/>

NAME

slxdecode – Decode a SLX stream into human readable form.

SYNOPSIS

slxdecode [*options*] <*slx-file*

DESCRIPTION

slxdecode decodes a SLX stream into human readable form.

A SLX stream is the printer language used by some Lexmark printers, such as the C500.

More information on the Software Imaging K.K. SLX stream can be found at:

<http://softwareimaging.com/products-services/sorcerer/index.asp>

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-r *basename*

Basename of .jbg file for saving raw planes

-h Print hex file offsets.

-o Print file offsets.

-D *level*

Set Debug level [0].

EXAMPLES

Decode an SLX file created by foo2slx.

```
$ slxdecode < testpage.zm
SLX_MAGIC, 0x584c53a5 (SLX)
SLT_START_DOC, 12 items
    SLI_PAGECOUNT, 4294967295 (0xffffffff)
    SLI_DMDUPLEX, 0 (0x0)
    SLI_DMCOLLATE, 0 (0x0)
    SLI_0x3, 0 (0x0)
    SLI_DISPLAY, 0 (0x0)
    SLI_0x5, 0 (0x0)
    SLI_0x6, 0 (0x0)
    SLI_0x7, 1 (0x1)
    SLI_0x8, 0 (0x0)
    SLI_0x9, 0 (0x0)
    SLI_COUNT, 1 (0x1)
    SLI_DMCOLLATE, 0 (0x0)
SLT_START_PAGE, 16 items [Page 1]
    SLI_DMPAPER, 6 (0x6)
    SLI_CUSTOM_X, 0 (0x0)
    SLI_CUSTOM_Y, 0 (0x0)
    SLI_DMCOPIES, 1 (0x1)
    SLI_DMDEFAULTSOURCE, 0 (0x0)
    SLI_DMEDIATYPE, 0 (0x0)
    SLI_NBIE, 0 (0x0)
    SLI_RESOLUTION_X, 600 (0x258)
```

```
SLI_RESOLUTION_Y, 600 (0x258)
SLI_OFFSET_X, 102 (0x66)
SLI_OFFSET_Y, 102 (0x66)
SLI_RASTER_X, 4896 (0x1320)
SLI_RASTER_Y, 6392 (0x18f8)
SLI_0x10d, 4896 (0x1320)
SLI_0x10e, 6392 (0x18f8)
SLI_0x10f, 1 (0x1)
SLT_JBIG_BIH, 0 items
    Data: 20 bytes
        DL = 0, D = 0, P = 1, - = 0, XY = 4896 x 6392
        L0 = 128, MX = 0, MY = 0
        Order = 0
        Options = 8  TPBON
        50 stripes, 0 layers, 1 planes
SLT_JBIG_BID, 0 items
    Data: 116 bytes
SLT_END_JBIG, 0 items
SLT_END_PAGE, 0 items
SLT_END_DOC, 0 items
```

FILES

/usr/local/bin/slxdecode

SEE ALSO

foo2slx-wrapper(1), **foo2slx(1)**, **jbg2pbm(1)**

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2slx.rkkda.com/>

NAME

usb_printerid – prints the ID of the printer on a USB port

SYNOPSIS

usb_printerid [*options*] /dev/usb/lpNNN

DESCRIPTION

usb_printerid prints the identification of the printer on a USB port using the ioctl control **LPIOC_GET_DEVICE_ID**.

EXAMPLES

Print the USB info before and after downloading the firmware.

```
# usb_printerid /dev/usb/lp0
GET_DEVICE_ID string:
MFG:Hewlett-Packard;MDL:HP LaserJet 1020;CMD:ACL;CLS:PRINTER;\
DES:HP LaserJet 1020;

# cp /usr/share/foo2zjs/firmware/sihp1020.dl /dev/usb/lp0

# usb_printerid /dev/usb/lp0
GET_DEVICE_ID string:
MFG:Hewlett-Packard;MDL:HP LaserJet 1020;CMD:ACL;CLS:PRINTER;\
DES:HP LaserJet 1020;FWVER:20050309;
```

FILES

/usr/local/bin/usb_printerid, /usr/share/foo2*/firmware/*

SEE ALSO

arm2hpd(1)

AUTHOR

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

NAME

xqxdecode – Decode a XQX stream into human readable form.

SYNOPSIS

xqxdecode [*options*] <*xqx-file*

DESCRIPTION

xqxdecode decodes a XQX stream into human readable form.

An XQX stream is the printer language used by some HP LaserJet printers, such as the HP LaserJet M1005 (MFP).

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-h Print hex file offsets.

-o Print file offsets.

-D *level*

 Set Debug level [0].

EXAMPLES

Decode an XQX stream file created by foo2xqx.

```
$ xqxdecode -h < testpage.xm
0: \033%-12345X@PJL JOB
12: @PJL SET JAMRECOVERY=OFF
2b: @PJL SET DENSITY=3
3e: @PJL SET ECONOMODE=OFF
55: @PJL SET RET=MEDIUM
69: @PJL INFO STATUS
7a: @PJL USTATUS DEVICE = ON
93: @PJL USTATUS JOB = ON
a9: @PJL USTATUS PAGE = ON
c0: @PJL USTATUS TIMED = 30
10c: @PJL SET JOBATTR="JobAttr4=20061118160242"
10c: XQX_MAGIC, 0x5851582c (,XQX)
110: XQX_START_DOC(1), 7 items
118:           XQXI_0x80000000, 84 (0x54)
124:           XQXI_0x10000005, 1 (0x1)
130:           XQXI_0x10000001, 0 (0x0)
13c:           XQXI_DMDUPLEX, 0 (0x0)
148:           XQXI_0x10000000, 0 (0x0)
154:           XQXI_0x10000003, 1 (0x1)
160:           XQXI_END, 3735928559 (0xdeadbeef)
16c: XQX_START_PAGE(3), 15 items [Page 1]
174:           XQXI_0x80000000, 180 (0xb4)
180:           XQXI_0x20000005, 1 (0x1)
18c:           XQXI_DMDEFAULTSOURCE, 7 (0x7)
198:           XQXI_DMEDIATYPE, 1 (0x1)
1a4:           XQXI_0x20000007, 1 (0x1)
1b0:           XQXI_RESOLUTION_X, 600 (0x258)
```

```

1bc:      XQXI_RESOLUTION_Y, 600 (0x258)
1c8:      XQXI_RASTER_X, 9856 (0x2680)
1d4:      XQXI_RASTER_Y, 6432 (0x1920)
1e0:      XQXI_VIDEO_BPP, 2 (0x2)
1ec:      XQXI_VIDEO_X, 4923 (0x133b)
1f8:      XQXI_VIDEO_Y, 6432 (0x1920)
204:      XQXI_ECONOMODE, 0 (0x0)
210:      XQXI_DMPAPER, 1 (0x1)
21c:      XQXI_END, 3735928559 (0xdeadbeef)
228: XQX_START_PLANE(5), 4 items
230:      XQXI_0x80000000, 64 (0x40)
23c:      XQXI_0x40000000, 0 (0x0)
248:      XQXI_BIH(0x40000002)
          DL = 0, D = 0, P = 1, - = 0, XY = 9856 x 6432
          L0 = 128, MX = 16, MY = 0
          Order = 3 ILEAVE SMID
          Options = 92 LRLTWO TPDON TPBON DPON
          51 stripes, 0 layers, 1 planes

264:      XQXI_END, 3735928559 (0xdeadbeef)
270: XQX_JBIG(7), 110 items
2e6: XQX_END_PLANE(6), 0 items
2ee: XQX_END_PAGE(4), 0 items
2f6: XQX_END_DOC(2), 0 items
Total size: 110 bytes
0: \033%-12345X@PJL EOJ
12: \033%-12345X

```

FILES

/usr/local/bin/xqxdecode

SEE ALSO

foo2xqx-wrapper(1), foo2xqx(1)

AUTHOR

Rick Richardson <rick.richardson@comcast.net>
<http://foo2xqx.rkkda.com/>

NAME

zjsdecode – Decode a ZjStream into human readable form.

SYNOPSIS

zjsdecode [*options*] <*zjs-file*

DESCRIPTION

zjsdecode decodes a ZjStream into human readable form.

A ZjStream is the printer language used by some Minolta/QMS and HP printers, such as the 2300DL and LJ-1000.

More information on Zenographics ZjStream can be found at:

<http://ddk.zeno.com>

COMMAND LINE OPTIONS

These are the options that can appear on the command line.

-d *basename*

Basename of .pbm file for saving decompressed planes.

-r *basename*

Basename of .jbg file for saving raw planes

-h Print hex file offsets.

-o Print file offsets.

-p Don't do 4 byte padding

-D *level*

Set Debug level [0].

EXAMPLES

Decode an ZjStream file created by foo2zjs.

```
$ zjsdecode < testpage.zm
ZJT_START_DOC, 3 items
    ZJI_PAGECOUNT, 0 (0x0)
    ZJI_DMDUPLEX, 1 (0x1)
    ZJI_QUANTITY, 1 (0x1)
ZJT_START_PAGE, 17 items
    ZJI_0x17, 0 (0x0)
    ZJI_0x16, 1 (0x1)
    ZJI_VIDEO_X, 10200 (0x27d8)
    ZJI_VIDEO_Y, 6600 (0x19c8)
    ZJI_VIDEO_BPP, 1 (0x1)
    ZJI_RASTER_X, 10200 (0x27d8)
    ZJI_RASTER_Y, 6600 (0x19c8)
    ZJI_OFFSET_X, 0 (0x0)
    ZJI_OFFSET_Y, 0 (0x0)
    ZJI_NBIE, 1 (0x1)
    ZJI_RESOLUTION_X, 1200 (0x4b0)
    ZJI_RESOLUTION_Y, 600 (0x258)
    ZJI_DMDEFAULTSOURCE, 7 (0x7)
    ZJI_DMCOPIES, 1 (0x1)
    ZJI_DMPAPER, 1 (0x1)
    ZJI_DMMEDIATYPE, 1 (0x1)
```

```
        ZJI_MINOLTA_PAGE_NUMBER, 1 (0x1)
ZJT_JBIG_BIH, 0 items
    Data: 20 bytes
        DL = 0, D = 0, P = 1, - = 0, XY = 10200 x 6600
        L0 = 128, MX = 16, MY = 0
        Order    = 3   ILEAVE SMID
        Options = 92   LRLTWO TPDON TPBON DPON
        52 stripes, 0 layers, 1 planes
ZJT_JBIG_BID, 0 items
    Data: 65536 bytes
ZJT_JBIG_BID, 0 items
    Data: 29120 bytes
ZJT_END_JBIG, 0 items
ZJT_END_PAGE, 0 items
ZJT_END_DOC, 0 items
```

FILES

/usr/local/bin/zjsdecode

SEE ALSO

foo2zjs-wrapper(1), **foo2zjs(1)**, **jbg2pbm(1)**

AUTHOR

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

