NAME

dvipos – compute positions in a DVI file

SYNOPSIS

dvipos [*OPTION...*] *infile[.dvi]*

DESCRIPTION

dvipos parses a DVI file looking for *pos:* specials. It currently recognizes *pos:pxy*, *pos:pxywhd*, *pos:pxyplus*, *pos:begbox*, *pos:endbox*, *pos:beglines*, and *pos:endlines*. It then outputs the information from those specials along with information that only a DVI postprocessor could determine, such as the current *x* and *y* location. The output looks like:

    \pospxywhd{text:54}{54}{10663sp}{8535sp}{21326sp}{34081sp}{0sp}

and is suitable for including in a **tex**(1) or **pdftex**(1) auxilliary file, such as *document.tuo*, to be read in by the next run of the **tex**(1) or similar typesetting engine.

OPTIONS

-h, --help

> print usage.

-W, --warning

> print warnings.

-v, --verbose

> print verbose output.

-d, --debug

> print **dvitype**(1) debugging data.

-s, --smashchars

> regard height and depth as zero.

-o, --output=FILE

> send all output to FILE. Without this option, output goes to stdout.

-b, --bbox[=FILE]

> send bounding box to FILE (default FILE is *infile.pos*).

-f, --framed[=BASE]

> request copy of DVI file, *BASE.dvi*, with bounding boxes **framed** (default FILE is *infile_frames.dvi*). See the **--framesize** option.

-m, --mag=INT

> override **tex**(1) magnification by INT.

-w, --framesize=INT

> set frame rule size by INT (default 6554 = .1pt).

-p, --pages=X:Y

> set page ranges from X to Y.

USAGE

dvipos is run mostly behind the scenes by ConTeXt's **texexec**(1) between runs of **tex**(1) or **pdftex**(1), in order to provide information to and get information about positional graphics. These

graphics are provided by the MetaFun interface to **mpost**(1). **dvipos** is not used (or needed) in PDF-output mode but is needed for DVI-output mode. **pdftex**(1) starting with version 1.40 can produce position information even in DVI mode, so once the ConTeXt macros take advantage of this feature, the need for **dvipos** will fade.

Until then, here is a typical use of **dvipos**:

```
dvipos notes.dvi
```

The position information that is output is collected by **texexec**(1) to include in the *notes.tuo* auxilliary file to use in the next run.

EXAMPLES

Extract positions from *doc.dvi*, with output to *doc.loc*:

```
dvipos -o doc.loc doc.dvi
```

Same as above, but also send bbox information to *doc.pos*:

```
dvipos -b -o doc.loc doc.dvi
```

Instead send bbox information to */tmp/debug.pos*:

```
dvipos -b=/tmp/debug.pos -o doc.loc doc.dvi
```

SEE ALSO

dvips(1), **dvitype**(1), **mpost**(1), **pdftex**(1), **tex**(1), **texexec**(1).

For more about positional graphics, see the MetaFun documentation on the ConTeXt wiki ⟨http://wiki.contextgarden.net/MetaFun⟩.

BUGS

If you specify a file for the **-b** option, you must join the option and name with = rather than (the more common) space:

```
dvipos -b=/tmp/debug.pos notes.dvi
```

works, but

```
dvipos -b /tmp/debug.pos notes.dvi
```

does not.

AUTHOR

dvipos is written by Jin-Hwan Cho <chofchof@ktug.or.kr>. It is free software (GPLv2 or later). This manpage was written by Sanjoy Mahajan <sanjoy@mit.edu> and is in the public domain.