NAME

psnup – multiple pages per sheet

SYNOPSIS

psnup $[-\mathbf{w}width]$ $[-\mathbf{h}height]$ $[-\mathbf{p}paper]$ $[-\mathbf{W}width]$ $[-\mathbf{H}height]$ $[-\mathbf{P}paper]$ $[-\mathbf{l}|-\mathbf{r}|-\mathbf{f}]$ $[-\mathbf{c}]$ $[-\mathbf{m}margin]$ $[-\mathbf{b}border]$ $[-\mathbf{d}[lwidth]]$ $[-\mathbf{s}scale]$ [-nup] $[-\mathbf{q}]$ [infile [outfile]]

DESCRIPTION

Psnup puts multiple logical pages onto each physical sheet of paper. The input PostScript file should follow the Adobe Document Structuring Conventions.

The $-\mathbf{w}$ option gives the paper width, and the $-\mathbf{h}$ option gives the paper height, specified in \mathbf{pt} , \mathbf{mm} , \mathbf{cm} , or \mathbf{in} . The $-\mathbf{p}$ option can be used instead, to set the paper size; otherwise a default value is used. See $\mathbf{paper}(1)$. The $-\mathbf{W}$, $-\mathbf{H}$, and $-\mathbf{P}$ options set the input paper size, if it is different from the output size. This makes it easy to impose pages of one size on a different size of paper.

The **–I** option should be used for pages which are in landscape orientation (rotated 90 degrees anticlockwise). The **–r** option should be used for pages which are in seascape orientation (rotated 90 degrees clockwise), and the **–f** option should be used for pages which have the width and height interchanged, but are not rotated.

Psnup normally uses 'row-major' layout, where adjacent pages are placed in rows across the paper. The -c option changes the order to 'column-major', where successive pages are placed in columns down the paper.

A margin to leave around the whole page can be specified with the $-\mathbf{m}$ option. This is useful for sheets of 'thumbnail' pages, because the normal page margins are reduced by putting multiple pages on a single sheet.

The -b option is used to specify an additional margin around each page on a sheet.

The $-\mathbf{d}$ option draws a line around the border of each page, of the specified width. If the *lwidth* parameter is omitted, a default linewidth of 1 point is assumed. The linewidth is relative to the original page dimensions, i.e., it is scaled down with the rest of the page.

The scale chosen by **psnup** can be overridden with the $-\mathbf{s}$ option. This is useful to merge pages which are already reduced.

The -nup option selects the number of logical pages to put on each sheet of paper. This can be any whole number; **psnup** tries to optimise the layout so that the minimum amount of space is wasted. If **psnup** cannot find a layout within its tolerance limit, it will abort with an error message. The alternative form $-\mathbf{n}nup$ can also be used, for compatibility with other n-up programs.

Psnup normally prints the page numbers of the pages re-arranged; the $-\mathbf{q}$ option suppresses this.

EXAMPLES

The potential use of this utility is varied but one particular use is in conjunction with **psbook**(1). For example, using groff to create a PostScript document and lpr as the UNIX print spooler a typical command line might look like this:

```
groff -Tps -ms file | psbook | psnup -2 | lpr
```

where file is a 4 page document this command will result in a two page document printing two pages of *file* per page and rearranges the page order to match the input pages 4 and 1 on the first

PSUtils 1

output page and pages 2 then 3 of the input document on the second output page.

AUTHOR

Written by Angus J. C. Duggan.

SEE ALSO

TRADEMARKS

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BUGS

Psnup does not accept all DSC comments.

PSUtils 2