

NAME

psnup – multiple pages per sheet

SYNOPSIS

psnup [-**w**width] [-**h**height] [-**p**paper] [-**W**width] [-**H**height] [-**P**paper] [-**l**|-**r**|-**f**] [-**c**]
 [-**m**margin] [-**b**border] [-**d**[lwidth]] [-**s**scale] [-**nup**] [-**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 **-w** option gives the paper width, and the **-h** option gives the paper height, specified in **pt**, **mm**, **cm**, or **in**. The **-p** option can be used instead, to set the paper size; otherwise a default value is used. See **paper(1)**. The **-W**, **-H**, and **-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 **-l** 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 **-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 **-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 **-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 **-nnup** can also be used, for compatibility with other n-up programs.

Psnup normally prints the page numbers of the pages re-arranged; the **-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

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**

PostScript is a trademark of Adobe Systems Incorporated.

BUGS

Psnup does not accept all DSC comments.