NAME

psnup - multiple pages per sheet

SYNOPSIS

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psnup [-wwidth] [-hheight] [-ppaper] [-Wwidth] [-Hheight] [-Ppaper] [-l|-r|-f] [-c]
[-mmargin] [-bborder] [-d[lwidth]] [-sscale] [-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 $-\mathbf{w}$ option gives the paper width, and the $-\mathbf{h}$ option gives the paper height, specified in **pt**, **mm**, **cm**, or **in**. The $-\mathbf{p}$ option can be used instead, to set the paper size; otherwise a default value is used. See **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 $-\mathbf{l}$ option should be used for pages which are in landscape orientation (rotated 90 degrees anticlockwise). The $-\mathbf{r}$ option should be used for pages which are in seascape orientation (rotated 90 degrees clockwise), and the $-\mathbf{f}$ 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 $-\mathbf{b}$ 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 -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

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BUGS

Psnup does not accept all DSC comments.