

The vertbars package

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1 *Documentation*

Because this package uses `lineno` as a driver, please read the documentation of that package first to understand the mechanisms used here.

The `vertbars` package takes the same options as the `lineno` package. In particular, the `switch` and `switch*` options control which side of the page any bars will be printed. The package automatically calls the `lineno` package, so you just need to write:

```
\usepackage[...]{vertbars}
```

The package provides the `vertbar` environment, which is equivalent to the `linenumbers` environment except that a vertical bar replaces the line number. Text paragraphs within a `vertbar` environment will be marked with a vertical bar in the margin. Nested environments generate multiple marginal bars.

The width of the bars is controlled by the value of `\barwidth`, which is initialised to `0.4pt`, and can be changed via `\setlength`.

The horizontal separation between adjacent bars is controlled by the value of `\barspace`, which is initialised to `0.5\linenumbersep`, and can be changed via `\setlength`. (`\linenumbersep` is a command from the `lineno` package that controls the spacing between line numbers and the text body).

Note: Bars can only be applied to complete paragraphs. For bars between arbitrary points, use the `changebar` package. Any limitations of the `lineno` package apply equally to the `vertbars` package.

Change History

v1.0b 2010/11/27 Fix behaviour with switch option

v1.0a 2009/09/04 New maintainer (Will Robertson)

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¹<http://www.latex-project.org/lppl.txt>

2 *Implementation*

LaTeX2e file 'vertbars.sty' generated by the 'filecontents' environment from source 'vertbars' on 2010/11/27.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{vertbars}[2010/11/27_v1.0b_vertical_bars_in_
   the_margin]

\LNenv 3 \newcommand{\LNenv}{runninglinenumbers}
switch 4 \DeclareOption{switch}{%
\LNenv 5 \renewcommand{\LNenv}{runningpagewiselinenumbers}
6 \PassOptionsToPackage{\CurrentOption}{lineno}
7 }

switch* 8 \DeclareOption{switch*}{%
\LNenv 9 \renewcommand{\LNenv}{runningpagewiselinenumbers}
10 \PassOptionsToPackage{\CurrentOption}{lineno}
11 }

\PassOptionsToPackage{% 12 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{lineno}}
\CurrentOption 13 \ProcessOptions\relax
14 \RequirePackage{lineno}
```

Code to add stuff at start and end of a pre-existing zero argument macro:

```
\addtodef 15 \newcommand{\addtodef}[3]{\begingroup
16 \temptokena{#2}%
17 \toks@\expandafter{#1#3}%
18 \edef\x{\endgroup
19 \def\noexpand#1{\the\temptokena_\the\toks@}}%
20 \x
21 }
```

It's useful to preserve `\baselineskip`:

```
\pwvbb1 22 \newlength{\pwvbb1}
23 \setlength{\pwvbb1}{\baselineskip}
```

Width of bars:

```

\barwidth 24 \newlength{\barwidth}
           25 \setlength{\barwidth}{0.4pt}

```

Horizontal space between bars:

```

\barspace 26 \newlength{\barspace}
           27 \setlength{\barspace}{0.5\linenumbersep}

```

```

addtomakeLNL 28 \newcommand{\addtomakeLNL}{\rule[-0.25\pwwbbl]{\barwidth}{1.1%
                \pwwbbl}\hskip\barspace\relax}}

```

```

\pwwbLNL 29 \newcommand{\pwwbLNL}{}

```

```

vertbar 30 \newenvironment{vertbar}{%
           31 \pagewiselinenumbers_<= added v1.ob
           32 \begin{\LNenv}%
           33 \addtodef{\pwwbLNL}{}{\addtomakeLNL}%
           34 \let\LineNumber\pwwbLNL
           35 }{%
           36 \end{\LNenv}%
           37 }

```

<eof>