

# finstrut.sty

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## Final Strut Allowing Vertical Mode\*

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### Abstract

L<sup>A</sup>T<sub>E</sub>X internally inserts `\@finalstrut`*(*strutbox*)* at the end of footnotes or `p` (paragraph) `tabular` cells. When the user's entry ends on a `\par` token—which may be issued by some more-general-purpose user macro such as the `\lipsum` command from the `lipsum` package<sup>1</sup> for dummy text—this produces a usually unwanted extra, empty line. `finstrut.sty` changes `\@finalstrut` in order to avoid this effect.

**Keywords:** footnotes; tables, dummy text, macro programming

## 1 Installing and Calling

The package file `finstrut.sty` is provided ready, installation only requires putting it somewhere where T<sub>E</sub>X finds it (which may need updating the filename data base).<sup>2</sup>

Below the `\documentclass` line(s) and above `\begin{document}`, you load `finstrut.sty` (as usually) by

```
\usepackage{finstrut}
```

There are no package options.

## 2 The Package File

```
1 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2 \ProvidesPackage{finstrut}[2010/12/20 v0.1 vmode final strut (UL)]
3
```

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\*This document describes version **v0.1** of `finstrut.sty` as of 2010/12/20.

<sup>†</sup><http://contact-ednotes.sty.de.vu>

<sup>1</sup><http://ctan.org/pkg/lipsum>

<sup>2</sup><http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf>

```

4  %% Copyright (C) 2010 Uwe Lueck,
5  %% http://www.contact-ednotes.sty.de.vu
6  %% -- author-maintained in the sense of LPPL below --
7  %%
8  %% This file can be redistributed and/or modified under
9  %% the terms of the LaTeX Project Public License; either
10 %% version 1.3c of the License, or any later version.
11 %% The latest version of this license is in
12 %% http://www.latex-project.org/lppl.txt
13 %% We did our best to help you, but there is NO WARRANTY.
14 %%
15 %% Please report bugs, problems, and suggestions via
16 %%
17 %% http://www.contact-ednotes.sty.de.vu
18 %%

```

This is a variant of L<sup>A</sup>T<sub>E</sub>X's `\@finalstrut` that doesn't produce a spurious empty line in vmode. In general, this deals with a closing `\par` from users in footnotes, the idea especially came from using the `lipsum` package. See `source2e.pdf` for the rationale behind the original definition; it may imply that the present suggestion is bad with `p` columns in `tabular` etc.

```

19 \renewcommand*{\@finalstrut}[1]{%
20     \unskip
21     \ifhmode
22         \nobreak
23
24     \vrule \width\z@ \height\z@
25         \depth \expandafter \dp
26     \else

```

... allows hyphenation of last word.

```

23     \vrule \width\z@ \height\z@
24         \depth \expandafter \dp
25     \else

```

Assuming it's vmode:

```

26     \kern -\prevdepth
27     \kern \expandafter \dp
28     \fi

```

With the applications in `latex.ltx`, namely with one-token parameters only, the parameter could be dropped. Keeping it may once be useful for referring to a box register by `\box⟨n⟩`.

```

29     #1%
30 }
31 \endinput

```

== VERSION HISTORY ==

```

32 v0.1    2010/12/20    very first
33

```