The **docmute** package[*]

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1 Intoduction

The structure of LaTeX documents doesn't allow one document to be included as a part of another. This package tries to remedy this limitation and enables standalone documents to be used with the standard `\input` and `\include` commands just as if they had no preamble.

This package is intentionally kept simple. If you require more smarts, there are other possibilities that might suit you better, such as the `standalone` package and document class by M. Scharrer or the `combine` class by W. Robertson and P. R. Wilson.

2 Usage

The package is loaded with the usual `\usepackage{docmute}`. It redefines the `\documentclass` command in such a way that everything between this command and the `\begin{document}` is skipped, as well as everything after the `\end{document}`. No attempts are made to analyse the actual content of the preamble—it is simply discarded. It is up to the user to ensure that the main document loads all packages required by subsidiary documents. To easily share (part of) a preamble between documents, simply put it in a separate file and `\input` it in each document.

`\docmute`   In rare cases there might be some commands present already before the `\documentclass` command and these commands will be executed then by the main document. You can prevent that by putting `\csname docmute\endcsname` at the top of the inputted document. The `\docmute` command has the same effect as the redefined `\documentclass`. Executing it through the control sequence forming primitive rather than directly ensures that standalone compilation is still possible, even though the `\docmute` command is not defined yet (in which case `\csname docmute\endcsname` will have the same effect as `\relax`).

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[*]This file describes version v1.2, last revised 2010/04/12.

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Starting with version v1.2 nesting of inputted documents is allowed by default and doesn't require an explicit option nor does it introduce an additional level of grouping as in previous versions. For backwards compatibility the `nested` option is still accepted but it has no effect.

3   Known limitations

The `\documentclass` and/or `\csname docmute\endcsname` command has to be in the same file as `\begin{document}`. This is due to employed preamble gobbling method, which relies on scanning for delimited macro arguments and which doesn't work across the file boundaries.

4   Implementation

Initial boilerplate code.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{docmute}[2010/04/12 v1.2 Input stand-alone documents]
```

Macro used for comparison to see if we already reached `\begin{document}`.

```
3 \def\docmute@docenv{document}
```

The main macro of this package. Grab everything before the `\begin` command and check what argument was passed to it.

```
4 \long\def\docmute@gobblepreamble#1\begin#2{%
5   \def\docmute@thisenv{#2}%
```

If `\begin{document}` was reached we can stop gobbling, otherwise we continue with tail recursive call.

```
6   \ifx\docmute@thisenv\docmute@docenv
7     \begin{document}%
8   \else
9     \expandafter\docmute@gobblepreamble
10  \fi
11 }
```

Save the original definitions of `\document` and `\enddocument`

```
12 \let\docmute@document=\document
13 \let\docmute@enddocument=\enddocument
```

Define the `\docmute` command.

```
14 \let\docmute=\docmute@gobblepreamble
```

Redefine the `\documentclass` command and `document` environment at the beginning of the document. `\AtBeginDocument` happens to early to be used for that, so we need to append directly to the `\document`.

```
15 \def\document{%
16   \docmute@document
```

```
17  \countdef\docmute@nestinglevel=1
18  \let\documentclass=\docmute
19  \renewenvironment{document}{%
```

Avoid grouping coming from the environment, store definition of `\@currenvir` at current nesting level and redefine it as `document` to keep check at `\end{document}` happy. Keep track of document nesting level and take care of excess spaces.

```
20    \endgroup
21    \advance \docmute@nestinglevel 1%
22    \ignorespaces
23  }{%
24    \advance \docmute@nestinglevel -1%
```

At the top level execute the original `\enddocument`. Otherwise match the grouping from `\end`, set ignore blanks switch to true, redefine `\@currenvir` to `document` to keep the check at `\end{document}` happy and finally `\endinput`.

```
25    \ifnum\docmute@nestinglevel=0
26      \docmute@enddocument
27    \else
28      \begingroup
29      \@ignoretrue
30      \def\@currenvir{document}%
31      \endinput
32    \fi
33  }%
34  \ignorespaces
35 }
```

Handle options.

```
36 \DeclareOption{nested}{}% for backwards compatibility only
37 \ProcessOptions
```