The **atveryend** package

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Abstract

This LaTeX package is a small wrapper around standard LaTeX hooks at the end of a document.

1 Documentation

In the past this package patched the command `\enddocument` to provided two additional hooks for `\end{document}` that were executed after the hook of `\AtEndDocument`.

Since 2020 this patching is no longer needed as the hooks are provided by LaTeX directly. Since this time the code of the package was no longer used as LaTeX suppressed the loading of the package and replaced the commands by commands based on the new hooks. In version 1.12 this new code was moved into `atveryend` directly.

The package defines the following user commands and maps them to `\AddToHook` calls. A description of the used hooks can be found in `lhooks-doc.pdf`.

`\AfterLastShipout {⟨code⟩}`

This adds the code to the `enddocument/afterlastpage` hook.

`\AtVeryEndDocument {⟨code⟩}`

This adds the code to the `enddocument/afteraux` hook.

`\AtEndAfterFileList {⟨code⟩}`

This adds the code to the `enddocument/info` hook.

`\AtVeryVeryEnd {⟨code⟩}`

This adds the code to the `enddocument/end` hook.

`\BeforeClearDocument {⟨code⟩}`

This adds the code to the `enddocument` hook. It is recommended to use `\AtEndDocument` instead.

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*Please report any issues at https://github.com/ho-tex/atveryend/issues

2 Implementation

1 ⟨*package⟩

Package identification.

2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{atveryend}%
4   [2024-08-06 v1.12 Hooks at the very end of document (HO)]

2.1 Tools

\AfterLastShipout

5 \newcommand\AfterLastShipout {\AddToHook{enddocument/afterlastpage}}

\AtVeryEndDocument

6 \newcommand\AtVeryEndDocument {\AddToHook{enddocument/afteraux}}

\AtEndAfterFileList

7 \newcommand\AtEndAfterFileList{\AddToHook{enddocument/info}}

\AtVeryVeryEnd

8 \newcommand\AtVeryVeryEnd   {\AddToHook{enddocument/end}}

\BeforeClearDocument

9 \newcommand\BeforeClearDocument{\AddToHook{enddocument}}

10 ⟨/package⟩

3 Installation

3.1 Download

Package. This package is available on CTAN[1]:

CTAN:macros/latex/contrib/atveryend/atveryend.dtx The source file.

CTAN:macros/latex/contrib/atveryend/atveryend.pdf Documentation.

3.2 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain TeX:

    tex atveryend.dtx

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

    atveryend.sty → tex/latex/atveryend/atveryend.sty
    atveryend.pdf → doc/latex/atveryend/atveryend.pdf
    atveryend.dtx → source/latex/atveryend/atveryend.dtx

If you have a `docstrip.cfg` that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

3.3 Refresh file name databases

If your TeX distribution (TeX Live, MiKTeX, . . .) relies on file name databases, you must refresh these. For example, TeX Live users run `texhash` or `mktexlsr`.

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[1] CTAN:pkg/atveryend

3.4 Some details for the interested

Unpacking with LaTeX. The `.dtx` chooses its action depending on the format:

plain TeX: Run docstrip and extract the files.

LaTeX: Generate the documentation.

If you insist on using LaTeX for docstrip (really, docstrip does not need LaTeX), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{atveryend.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfLaTeX:

```
pdflatex atveryend.dtx
makeindex -s gind.ist atveryend.idx
pdflatex atveryend.dtx
makeindex -s gind.ist atveryend.idx
pdflatex atveryend.dtx
```

4 Acknowledgement

Arthur Ogawa: He proposed the new API with `\AfterLastShipout` and gave me much feedback, comprehensive class/package lists, many suggestions and comments.

5 History

[2009/12/06 v1.0]

- The first version.

[2009/12/07 v1.1]

- Bug fixes.

[2009/12/09 v1.2]

- Additional support of classes and packages.

[2009/12/11 v1.3]

- Patch for letter like classes that puts label into the '.aux' file.
- Hook `\BeforeClearDocument` added (request from Arthur Ogawa).
- Patch of `\clear@document` removed (Arthur Ogawa).
- A nested `\AtBeginDocument` removed.

[2010/01/25 v1.4]

- Moved from `TDS:*/generic/*` to `TDS:*/latex/*`.

[2010/03/24 v1.5]

- \Call@BeforeClearDocument fixed (Ahmed Musa).

[2011/04/15 v1.6]

- \Call@AtEndAfterFileList and \Call@AtVeryVeryEnd added.

[2011/04/23 v1.7]

- Some fix for \AtVeryEnd@RedefCheckEnd to avoid error because of undefined control sequence in some circumstances (thanks to D.P. Story for bug report).

[2011/06/30 v1.8]

- Support of changed \enddocument of LaTeX 2ε 2011/06/27.

[2016/05/16 v1.9]

- Documentation updates.

[2019/12/05 v1.10]

- Documentation updates.

[2019-12-11 v1.11]

- Updated

[2024-08-06 v1.12]

- Switch to kernel hooks

6 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.