The hopatch package

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Abstract

This package provides a wrapper to various package hooks provided by other packages or classes, but does not define own hooks.

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1 Documentation

Sometimes I want to add code right after a package has been loaded. Examples are bug fixes, adaptations, or added features as needed by package hyperref, for instance.

∗Please report any issues at https://github.com/ho-tex/oberdiek/issues
Table 1: After package hooking

<table>
<thead>
<tr>
<th>Macro</th>
<th>Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>\AfterPackage</td>
<td>package scrlfile</td>
</tr>
<tr>
<td>\AtEndOfFile</td>
<td>package filehook</td>
</tr>
<tr>
<td>\AtEndPackage</td>
<td>class memoir</td>
</tr>
</tbody>
</table>

Table 2: After begin document hooking

<table>
<thead>
<tr>
<th>Macro</th>
<th>Provider</th>
</tr>
</thead>
<tbody>
<tr>
<td>\AtBeginDocument</td>
<td>\LaTeX{}’s kernel</td>
</tr>
<tr>
<td>\AtEndPreamble</td>
<td>package etoolbox</td>
</tr>
<tr>
<td>\AfterEndPreamble</td>
<td>package etoolbox</td>
</tr>
</tbody>
</table>

Unhappily \LaTeX{} does not provide this kind of hook. \AtEndOfFile can be used inside the package only, because \LaTeX{} clears the hook right before it loads the package.

However, there are already many packages and classes that provide hooks that are executed after the package is loaded, see table 1.

Package hopatch can be used without the packages of table 1. But for an early executing right after a package is loaded, one of the following class or packages should be loaded before using `hopatch@AfterPackage`:

- package filehook
- package scrlfile
- class memoir

Therefore I skip writing a new package for hooking into \LaTeX{}’s package management and use this package to provide a wrapper to patch a package after it is loaded.

\begin{verbatim}
\hopatch@AfterPackage \{\langle package\rangle\} \{\langle patch code\rangle\}
\end{verbatim}

If the package is already loaded, the \langle patch code\rangle is executed immediately. Otherwise the \langle patch code\rangle is stored in a command and tried at later locations until the package is available.

The patch is tried in the following order:

1. If the package is already loaded, the patch is applied immediately. Further locations are not tried.
2. \AtEndPackage, provided by class memoir [4], and \AfterPackage, provided by package scrlfile [5], are called right after the package file is input before the hook of \LaTeX{}’s \AtEndOfFile.
3. \AtEndOfFile, provided by package filehook [2], is called after the package is loaded and after the hook of \LaTeX{}’s \AtEndOfFile.
4. \AtEndPreamble, provided by package etoolbox [1], is called at the beginning of \{\begin{document}\} before the hook of \LaTeX{}’s \AtBeginDocument.
5. \AtBeginDocument, provided by \LaTeX{}.
6. \AfterEndDocument, provided by package etoolbox [1], is called at the very end of \{\begin{document}\}. Preamble commands are already forbidden there.
Because of the various locations the patch code is restricted to limitations:

- Preamble commands, see \LaTeX{}’s \texttt{%onlypreamble} throw an error if used after \texttt{\begin{document}}. This is already the case for \texttt{\AfterEndDocument}. Therefore preamble commands are forbidden in the patching code. There are four exceptions \texttt{\ifpackageloaded}, \texttt{\ifclassloaded}, \texttt{\ifpackagelater} and \texttt{\ifclasslater}. They are redefined during \texttt{\AfterEndDocument} using the counterparts of package \texttt{ltxcmds} [3].

- \texttt{\AfterPackage} of package \texttt{scrlfile} and \texttt{\AtEndPackage} of class \texttt{memoir} call the hook before \LaTeX{}’s \texttt{\AtEndOfPackage}.

## 2 Implementation

1 (*package*)

### 2.1 Catcodes and package identification

2 \begin{verbatim}
\begin{group}
\catcode61=10 \relax
\catcode48=10 \relax
\catcode32=10 \relax
\catcode13=5 \relax
\endlinechar=13 \relax
\catcode123=1 \relax
\catcode125=2 \relax
\end{verbatim}

3 \begin{verbatim}
\def\x{\endgroup
\expandafter\edef\csname HOpatch@AtEnd\endcsname{%
\endlinechar=\the\endlinechar\relax
\catcode13=\the\catcode13\relax
\catcode32=\the\catcode32\relax
\catcode35=\the\catcode35\relax
\catcode61=\the\catcode61\relax
\catcode64=\the\catcode64\relax
\catcode123=\the\catcode123\relax
\catcode125=\the\catcode125\relax
}}%
\x
\end{verbatim}

4 \begin{verbatim}
\catcode61=5 \relax
\catcode48=5 \relax
\catcode32=5 \relax
\catcode13=5 \relax
\catcode123=6 \relax
\catcode125=1 \relax
\end{verbatim}

5 \begin{verbatim}
\def\TMP@EnsureCode#1#2{%
\edef\HOpatch@AtEnd{%
\HOpatch@AtEnd
\catcode#1=\the\catcode#1\relax
}}%
\catcode#1=#2\relax
\end{verbatim}

6 \begin{verbatim}
\TMP@EnsureCode{40}{12}% ( 
\TMP@EnsureCode{41}{12}% )
\TMP@EnsureCode{43}{12}% +
\TMP@EnsureCode{46}{12}% .
\TMP@EnsureCode{47}{12}% /
\TMP@EnsureCode{91}{12}% [
\TMP@EnsureCode{93}{12}% ]
\edef\HOpatch@AtEnd{\HOpatch@AtEnd\noexpand\endinput}
\end{verbatim}

7 Package identification.

8 NeedsTeXFormat{LaTeX2e}

9 ProvidesPackage{hopatch} %

[2016/05/16 v1.3 Wrapper for package hooks (HO)]
2.2 Resources

\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname RequirePackage\endcsname\relax
\beginpgfgraphicnamed{\endcsname}\relax
\endinput
\input \#1.sty\relax
\fi
\endpgfgraphicnamed
\endinput
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

2.3 Package patching

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%

\HOpatch@counter
\def\HOpatch@counter{0}%
\HOpatch@StepCounter
\ltx@ifundefined{numexpr}{%
\def\HOpatch@StepCounter{%
\begingroup
\count@\HOpatch@counter\relax
\advance\count@\ltx@one\relax
\edef\x{\endgroup
\noexpand\def\noexpand\HOpatch@counter{\the\count@}%
\x}
}
}{%
\def\HOpatch@StepCounter{%
\edef\HOpatch@counter{\the\numexpr\HOpatch@counter+\ltx@one\relax
}
}
}

\HOpatch@list
\def\HOpatch@list{}
\HOpatch@Add
\def\HOpatch@Add{%
\ltx@LocalAppendToMacro\HOpatch@list
}

\hopatch@AfterPackage
\def\hopatch@AfterPackage#1{%
\ltx@ifpackageloaded{#1}{%
\ltx@firstofone
}{%
\HOpatch@AfterPackage{#1}%
}
}

\HOpatch@AfterPackage
\def\HOpatch@AfterPackage#1{%
\edef\HOpatch@temp{#1}%
\HOpatch@StepCounter
\expandafter\HOpatch@@AfterPackage\csname HOpatch@\HOpatch@counter\expandafter\endcsname{%
\HOpatch@temp
)

\HOpatch@@AfterPackage
\def\HOpatch@@AfterPackage#1#2#3{% 
  \begingroup 
  \toks@{#3}% 
  \xdef\HOpatch@gtemp{\noexpand\ltx@ifpackageloaded{#2}{\noexpand\let\noexpand#1\noexpand\relax \the\toks@}{}}% 
  \endgroup 
  \let#1\HOpatch@gtemp 
  \HOpatch@Add#1% 
  \HOpatch@Try{AfterPackage}{#2}#1% 
  \HOpatch@Try{AtEndPackage}{#2}#1% 
  \HOpatch@Try{AtEndOfPackageFile}{#2}#1% }

\HOpatch@Try
\def\HOpatch@Try#1#2#3{% 
  \ltx@ifundefined{#1}{}{\csname #1\endcsname{#2}{#3}}% 
}%

\AtBeginDocument{\HOpatch@list}
\ltx@ifundefined{AtEndPreamble}{}{\ltx@ifundefined{@endpreamblehook}{}{\AtEndPreamble{\HOpatch@list}{}% 
  \HOpatch@AtEnd}}%
3.1 Catcode checks for loading

\catcode`\{=1 \%
\catcode`\}=2 \%
\catcode`\#=6 \%
\catcode`@=11 \%
\expandafter\ifx\csname count@\endcsname\relax
\countdef\count@=255 \%
\fi
\expandafter\ifx\csname @gobble\endcsname\relax
\long\def\@gobble#1{}\%
\fi
\expandafter\ifx\csname @firstofone\endcsname\relax
\long\def\@firstofone#1{#1}\%
\fi
\expandafter\ifx\csname loop\endcsname\relax
\else
\expandafter\@gobble
\fi
{\
\def\loop#1\repeat{%
\def\body{#1}\%
\iterate}
\def\iterate{%
\body
\let\next\iterate
\else
\let\next\relax
\fi
\next}
\let\repeat=\fi
\def\RestoreCatcodes{}%}
\count@=0 \%
\loop
\edef\RestoreCatcodes{%
\RestoreCatcodes\%}
\catcode\the\count@=\the\catcode\count@%}
\ifnum\count@<255 \%
\advance\count@ 1 \%
\repeat
\def\RangeCatcodeInvalid#1#2{%
\count@=#1\relax
\loop
\catcode\count@=15 \%
\ifnum\count@<#2\relax
\advance\count@ 1 \%
\repeat
}
\def\RangeCatcodeCheck#1#2#3{%
\count@=#1\relax
\loop
\ifnum#3=\catcode\count@ \%
\else
\errmessage{6}\
\fi

}
Character \the\count@ \space

with wrong catcode \the\catcode\count@ \space

instead of \number\#3\%

\}%
\fi
\ifnum\count@<#2\relax
\advance\count@ 1 \%
\repeat
\}
\def\space{ }
\expandafter\ifx\csname LoadCommand\endcsname\relax
\def\LoadCommand{\input hopatch.sty\relax}%
\fi
\def\Test{%
\RangeCatcodeInvalid{0}{47}\%
\RangeCatcodeInvalid{58}{64}\%
\RangeCatcodeInvalid{91}{96}\%
\catcode`\@=12 \%
\catcode`\%=0 \%
\catcode`\%=14 \%
\LoadCommand
\RangeCatcodeCheck{0}{36}{15}\%
\RangeCatcodeCheck{37}{37}{14}\%
\RangeCatcodeCheck{38}{47}{15}\%
\RangeCatcodeCheck{48}{57}{12}\%
\RangeCatcodeCheck{58}{63}{15}\%
\RangeCatcodeCheck{64}{64}{12}\%
\RangeCatcodeCheck{65}{90}{11}\%
\RangeCatcodeCheck{91}{91}{15}\%
\RangeCatcodeCheck{92}{92}{0}\%
\RangeCatcodeCheck{93}{96}{15}\%
\RangeCatcodeCheck{97}{122}{11}\%
\RangeCatcodeCheck{123}{255}{15}\%
\RestoreCatcodes
}
\Test
\csname @@end\endcsname
\end
⟨/test1⟩

⟨* test2⟩
\NeedsTeXFormat{LaTeX2e}
\providecommand\variant{0}
\RequirePackage{filecontents}
\begin{filecontents}{foo.sty}
\ProvidesPackage{foo}
\def\msg#{\immediate\write16}
\def\foo#1{\
\msg{\fooformat{#1}}
}
\def\fooformat#1{[#1]}% hash-ok
\foo{* Executing foo at package loading}
\end{filecontents}

\ifnum\variant=1 %
\documentclass{memoir}%
\else
\documentclass{article}%
\fi
\ifcase\variant\relax % or % 1
\or % 2
\usepackage{etoolbox}\%
\or % 3
\usepackage{scrlfile}\%
\or % 4
\usepackage{filehook}\%
\fi
\AtBeginDocument{\foo{* AtBeginDocument before hopatch}}
\usepackage{hopatch}
\AtBeginDocument{\foo{* AtBeginDocument after hopatch}}
\makeatletter
\hopatch@AfterPackage{foo}{%
  \def\fooformat#1{<<#1>>}%
%
}\makeatother
\AtBeginDocument{\foo{* AtBeginDocument before foo}}
\usepackage{foo}
\AtBeginDocument{\foo{* AtBeginDocument after foo}}
\foo{* Executing in preamble}
\begin{document}
\foo{* Executing in document}
\end{document}
⟨/test2⟩

4 Installation

4.1 Download

Package. This package is available on CTAN\textsuperscript{1}:


Bundle. All the packages of the bundle `oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

CTAN:install/macros/latex/contrib/oberdiek.tds.zip

TDS refers to the standard “A Directory Structure for \LaTeX\ Files” (CTAN:tds/tds.pdf). Directories with texmf in their name are usually organized this way.

4.2 Bundle installation

Unpacking. Unpack the oberdiek.tds.zip in the TDS tree (also known as texmf tree) of your choice. Example (linux):

unzip oberdiek.tds.zip -d ~/texmf

Script installation. Check the directory TDS:scripts/oberdiek/ for scripts that need further installation steps. Package attachfile2 comes with the Perl script pdfatfi.pl that should be installed in such a way that it can be called as pdfatfi. Example (linux):

chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/

\textsuperscript{1}http://ctan.org/pkg/hopatch

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4.3 Package installation

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

```
tex hopatch.dtx
```

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

```
hopatch.sty → tex/latex/oberdiek/hopatch.sty
hopatch.pdf → doc/latex/oberdiek/hopatch.pdf
test/hopatch-test1.tex → doc/latex/oberdiek/test/hopatch-test1.tex
test/hopatch-test2.tex → doc/latex/oberdiek/test/hopatch-test2.tex
hopatch.dtx → source/latex/oberdiek/hopatch.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`.

4.4 Refresh file name databases

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

4.5 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:

```
\let\install=y\input{hopatch.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 hopatch.dtx
makeindex -s gind.ist hopatch.idx
pdflatex hopatch.dtx
makeindex -s gind.ist hopatch.idx
pdflatex hopatch.dtx
```

5 Catalogue

The following XML file can be used as source for the `TeX` Catalogue. The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `hopatch.xml`.

294 (*catalogue)
The hopatch package provides a command with which the user may register a piece of patch code for a particular package. Hopatch will apply the patch immediately, if the relevant package has already been loaded; otherwise it will store the patch until the package appears.

The package is part of the oberdiek bundle.

6 References


7 History

[2011/01/30 v1.0]

- First public version.

[2011/06/24 v1.1]

- Fix the use of \AtEndPreamble and \AfterEndPreamble. They are redefined by package etoolbox after their hooks are used and generate an error message then.

[2012/05/28 v1.2]

- Fix for use without \eps-\TeX{} (thanks Gordon Lee).
8 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.

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[2016/05/16 v1.3]

- Documentation updates.
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