# The hopatch package

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#### Abstract

This packages 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.

Unhappily  $\LaTeX$  does not provide this kind of hook. AtEndOfPackage 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.

Table 1: After package hooking

Macro	Provider
\AfterPackage	package scrlfile [5]
$\verb \AtEndOfPackageFile  \\$	package filehook [2]
\AtEndPackage	class memoir [4]

Table 2: After begin document hooking

Macro	Provider
\AtBeginDocument	I₄T <sub>E</sub> X's kernel
\AtEndPreamble	package etoolbox [1]
\AfterEndPreamble	package etoolbox

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 IATEX's package management and use this package to provide a wrapper to patch a package after it is loaded.

#### $\label{local_partial} $$ \displaystyle \operatorname{AfterPackage} {\langle package \rangle} {\langle patch\ code \rangle} $$$

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 scrifile [5], are called right after the package file is input before the hook of IATEX's \AtEndOfPackage.
- 3. \AtEndOfPackageFile, provided by package filehook [2], is called after the package is loaded and after the hook of LATEX's \AtEndOfPackage.
- 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 IATEX.
- 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 IATEX's \@onlypreamble throw an error if used after \begin{document}. This is already the case for \AfterEndDocument. Therefore preamble commands are forbidden in the patching code. There are four exceptions \@ifpackageloaded, \@ifclassloaded, \@ifpackagelater and \@ifclasslater. They are redefined during \AfterEndDocument using the counterparts of package ltxcmds [3].

• \AfterPackage of package scrifile and \AtEndPackage of class memoir call the hook before LATEX's \AtEndOfPackage.

## 2 Implementation

```
1 (*package)
```

#### 2.1 Catcodes and package identification

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
   \catcode13=5 % ^^M
    \endlinechar=13 %
 4
    \catcode123=1 % {
 5
    \catcode125=2 % }
 6
     \catcode64=11 % @
     \def\x{\endgroup
 8
 9
       \expandafter\edef\csname HOpatch@AtEnd\endcsname{%
10
         \endlinechar=\the\endlinechar\relax
11
         \catcode13=\the\catcode13\relax
12
         \catcode32=\the\catcode32\relax
         \catcode35=\the\catcode35\relax
13
         \catcode61=\the\catcode61\relax
14
         \catcode64=\the\catcode64\relax
15
         \catcode123=\the\catcode123\relax
16
         \catcode125=\the\catcode125\relax
17
      }%
18
    }%
19
20 \x\catcode61\catcode48\catcode32=10\relax%
21 \catcode13=5 % ^^M
22 \endlinechar=13 %
23 \catcode35=6 % #
24 \catcode64=11 % @
25 \catcode123=1 % {
26 \catcode125=2 % }
27 \def\TMP@EnsureCode#1#2{%
     \edef\HOpatch@AtEnd{%
28
       \HOpatch@AtEnd
29
       \catcode#1=\the\catcode#1\relax
30
31
     }%
32
     \catcode#1=#2\relax
33 }
34 \TMP@EnsureCode{40}{12}% (
35 \TMP@EnsureCode{41}{12}% )
36 \TMP@EnsureCode{43}{12}% +
37 \TMP@EnsureCode{46}{12}%
38 \TMP@EnsureCode{47}{12}% /
39 \TMP@EnsureCode{91}{12}% [
40 \TMP@EnsureCode{93}{12}% ]
41 \edef\HOpatch@AtEnd{\HOpatch@AtEnd\noexpand\endinput}
   Package identification.
42 \NeedsTeXFormat{LaTeX2e}
43 \ProvidesPackage{hopatch}%
     [2012/05/28 v1.2 Wrapper for package hooks (HO)]
2.2
      Resources
45 \begingroup\expandafter\expandafter\expandafter\endgroup
46 \expandafter\ifx\csname RequirePackage\endcsname\relax
47
     \def\TMP@RequirePackage#1[#2]{%
       \begingroup\expandafter\expandafter\expandafter\endgroup
48
       \expandafter\ifx\csname ver@#1.sty\endcsname\relax
49
50
         \input #1.sty\relax
51
```

```
}%
                          52
                               \TMP@RequirePackage{ltxcmds}[2010/12/12]%
                          53
                          54 \else
                              \RequirePackage{ltxcmds}[2010/12/12]%
                          55
                          56 \fi
      \HOpatch@counter
                          57 \def\HOpatch@counter{0}%
  \HOpatch@StepCounter
                          58 \ltx@ifundefined{numexpr}{%
                               \def\HOpatch@StepCounter{%
                          59
                          60
                                 \begingroup
                                   \count@\HOpatch@counter\relax
                          61
                                   \advance\count@\ltx@one\relax
                          62
                                 \edef\x{\endgroup
                          63
                                   \noexpand\def\noexpand\HOpatch@counter{\the\count@}%
                          64
                                 }%
                          65
                          66
                                 ١x
                              }%
                          67
                          68 }{%
                               \def\HOpatch@StepCounter{%
                          69
                          70
                                 \edef\HOpatch@counter{%
                          71
                                   \the\numexpr\HOpatch@counter+\ltx@one\relax
                                 }%
                          72
                               }%
                          73
                          74 }
         \HOpatch@list
                          75 \def\HOpatch@list{}
          \HOpatch@Add
                          76 \def\HOpatch@Add{%
                               \ltx@LocalAppendToMacro\HOpatch@list
                          78 }
                         2.3
                                Package patching
\hopatch@AfterPackage
                          79 \def\hopatch@AfterPackage#1{%
                               \ltx@ifpackageloaded{#1}{%
                          80
                                 \ltx@firstofone
                          81
                               }{%
                          82
                          83
                                 \HOpatch@AfterPackage{#1}%
                          84
                              }%
                          85 }
\HOpatch@AfterPackage
                          86 \def\HOpatch@AfterPackage#1{%
                               \edef\HOpatch@temp{#1}%
                          87
                          88
                               \HOpatch@StepCounter
                               \expandafter\HOpatch@@AfterPackage
                          89
                               \csname HOpatch@\HOpatch@counter\expandafter\endcsname{%
                          90
                          91
                                 \HOpatch@temp
                              }%
                          92
                          93 }
\HOpatch@@AfterPackage
                          94 \def\HOpatch@@AfterPackage#1#2#3{%
                               \begingroup
                          95
                                 \toks@{#3}%
                          96
                                 \verb|\xdef| HOpatch@gtemp{%|
                          97
```

```
\noexpand\ltx@ifpackageloaded{#2}{%
                                   98
                                                             \noexpand\let\noexpand#1\noexpand\relax
                                    99
                                                             \the\toks@
                                  100
                                                       }{}%
                                  101
                                                  }%
                                  102
                                  103
                                              \endgroup
                                  104
                                              \let#1\HOpatch@gtemp
                                  105
                                              \HOpatch@Add#1%
                                              \HOpatch@Try{AfterPackage}{#2}#1%
                                 106
                                              \HOpatch@Try{AtEndPackage}{#2}#1%
                                  107
                                              \HOpatch@Try{AtEndOfPackageFile}{#2}#1%
                                  108
                                 109 }
\HOpatch@Try
                                  110 \def\HOpatch@Try#1#2#3{%
                                              \ltx@ifundefined{#1}{}{%
                                 111
                                                   \csname \#1\endcsname{\#2}{\#3}\%
                                 112
                                             }%
                                 113
                                 114 }
                                 115 \AtBeginDocument{\HOpatch@list}
                                  116 \ltx@ifundefined{AtEndPreamble}{}{%
                                              \ltx@ifundefined{@endpreamblehook}{}{%
                                 117
                                                   \AtEndPreamble{\HOpatch@list}%
                                 118
                                             }%
                                 119
                                 120 }
                                 121 \ltx@ifundefined{AfterEndPreamble}{}{%
                                 122
                                              \ltx@ifundefined{@afterendpreamblehook}{}{\%
                                 123
                                                   \AfterEndPreamble{%
                                                        \let\HOpatch@OrgIfPackageLoaded\@ifpackageloaded
                                 124
                                                        \let\HOpatch@OrgIfPackageLater\@ifpackagelater
                                 125
                                 126
                                                        \let\HOpatch@OrgIfClassLoaded\@ifclassloaded
                                 127
                                                        \let\HOpatch@OrgIfClassLater\@ifclasslater
                                 128
                                                       \let\@ifpackageloaded\ltx@ifpackageloaded
                                                        \let\@ifpackagelater\ltx@ifpackagelater
                                 129
                                  130
                                                       \let\@ifclassloaded\ltx@ifclassloaded
                                  131
                                                        \let\@ifclasslater\ltx@ifclasslater
                                  132
                                                        \HOpatch@list
                                 133
                                                        \let\@ifpackageloaded\HOpatch@OrgIfPackageLoaded
                                                        \let\@ifpackagelater\HOpatch@OrgIfPackageLater
                                 134
                                                        \let\@ifclassloaded\HOpatch@OrgIfClassLoaded
                                 135
                                                        \let\@ifclasslater\HOpatch@OrgIfClassLater
                                  136
                                  137
                                                  }%
                                  138
                                             }%
                                  139 }
                                  140 \HOpatch@AtEnd%
                                  141 (/package)
                                  3
                                             Test
                                 142 (*test1)
                                  143 \ensuremath{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{loadCommand}{\label{load}{\label{loadCommand}{\label{load}{\label{load}{\label{load}{\label{load}{\label{load}{\label{load}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label{load}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}{\label}{\label}{\label{load}{\label}{\label{load}{\label}{\label{load}}{\label{load}{\label}{\label{load}}{\label{load}}}}}}}} 143 \end{substitute} \begin{substitute} \end{substitute}} \begin{substitute} \begin{sub
                                  144 (/test1)
                                                Catcode checks for loading
                                  145 (*test1)
                                  146 \catcode \{=1 %
                                  147 \catcode \}=2 %
                                  148 \catcode \#=6 %
                                  149 \catcode \@=11 %
```

```
150 \expandafter\ifx\csname count@\endcsname\relax
151 \countdef\count@=255 %
152 \fi
153 \expandafter\ifx\csname @gobble\endcsname\relax
154 \long\def\@gobble#1{}%
155 \fi
156 \verb|\expandafter\ifx\csname| @firstofone\endcsname\relax|
157 \long\def\@firstofone#1{#1}%
158 \fi
159 \expandafter\ifx\csname loop\endcsname\relax
    \expandafter\@firstofone
161 \else
     \expandafter\@gobble
162
163 \fi
164 {%
     \def\loop#1\repeat{%
165
166
       \def\body{#1}%
       \iterate
167
    }%
168
169
     \def\iterate{%
170
       \body
          \let\next\iterate
171
172
       \else
         \let\next\relax
173
174
175
       \next
     }%
176
     \let\repeat=\fi
177
178 }%
179 \def\RestoreCatcodes{}
180 \count@=0 %
181 \loop
182
     \edef\RestoreCatcodes{%
183
       \RestoreCatcodes
       \catcode\the\count@=\the\catcode\count@\relax
    }%
186 \ifnum\count@<255 %
187 \advance\count@ 1 %
188 \repeat
189
190 \def\RangeCatcodeInvalid#1#2{%
    \count@=#1\relax
191
     \loop
192
193
       \catcode\count@=15 %
194
     \ifnum\count@<#2\relax
195
       \advance\count@ 1 %
196
     \repeat
197 }
198 \def\RangeCatcodeCheck#1#2#3{%
199
     \count@=#1\relax
     \loop
200
       \ifnum#3=\catcode\count@
201
       \else
202
203
         \errmessage{%
           Character \the\count@\space
204
205
           with wrong catcode \the\catcode\count@\space
206
           instead of \number#3%
207
         }%
208
       \fi
     \ifnum\count@<#2\relax
209
       \advance\count@ 1 %
210
     \repeat
211
```

```
212 }
213 \def\space{}
214 \expandafter\ifx\csname LoadCommand\endcsname\relax
215 \def\LoadCommand{\input hopatch.sty\relax}%
216 \fi
217 \def\Test{%}
218
     \RangeCatcodeInvalid{0}{47}%
219
     \RangeCatcodeInvalid{58}{64}%
     \RangeCatcodeInvalid{91}{96}%
220
     \RangeCatcodeInvalid{123}{255}%
221
     \catcode`\@=12 %
222
     \catcode`\\=0 %
223
     \catcode`\%=14 %
224
     \LoadCommand
225
     \RangeCatcodeCheck{0}{36}{15}%
226
227
     \RangeCatcodeCheck{37}{37}{14}%
228
     \RangeCatcodeCheck{38}{47}{15}%
     \RangeCatcodeCheck{48}{57}{12}%
229
     \RangeCatcodeCheck{58}{63}{15}%
230
231
     \RangeCatcodeCheck{64}{64}{12}%
     232
     \RangeCatcodeCheck{91}{91}{15}%
233
234
     \RangeCatcodeCheck{92}{92}{0}%
     \RangeCatcodeCheck{93}{96}{15}%
235
     \RangeCatcodeCheck{97}{122}{11}%
236
237
     \RangeCatcodeCheck{123}{255}{15}%
238
     \RestoreCatcodes
239 }
240 \Test
241 \csname @@end\endcsname
242 \end
243 (/test1)
244 (*test2)
245 \NeedsTeXFormat{LaTeX2e}
246 \providecommand\variant{0}
247 \ \texttt{RequirePackage\{filecontents\}}
248 \begin{filecontents}{foo.sty}
249 \ProvidesPackage{foo}
250 \def\msg#{\immediate\write16}
251 \def\foo#1{%
252
    \msg{\fooformat{#1}}%
253 }
254 \left( \frac{\#1}{\% \text{ hash-ok}} \right)
255 \foo{* Executing foo at package loading}
256 \end{filecontents}
257
258 \ifnum\variant=1 %
259 \documentclass{memoir}%
260 \ensuremath{\setminus} else
     \documentclass{article}%
262 \fi
263
264 \ifcase\variant\relax
265 \or % 1
266 \or % 2
267 \usepackage{etoolbox}%
268 \or % 3
269 \usepackage{scrlfile}%
270 \or % 4
271
    \usepackage{filehook}%
272 \fi
273
```

```
274 \AtBeginDocument{\foo{* AtBeginDocument before hopatch}}
275 \usepackage{hopatch}
276 \AtBeginDocument{\foo{* AtBeginDocument after hopatch}}
278 \makeatletter
279 \hopatch@AfterPackage{foo}{%
    \def\fooformat#1{<<#1>>}%
281 }
282 \makeatother
283
284 \AtBeginDocument{\foo{* AtBeginDocument before foo}}
285 \usepackage{foo}
286 \AtBeginDocument{\foo{* AtBeginDocument after foo}}
288 \foo{* Executing in preamble}
289
290 \begin{document}
291 \foo{* Executing in document}
292 \end{document}
293 (/test2)
```

#### 4 Installation

#### 4.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

CTAN:macros/latex/contrib/oberdiek/hopatch.dtx The source file.

 ${\tt CTAN:macros/latex/contrib/oberdiek/hopatch.pdf}\ \ {\tt Documentation}.$ 

**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 TEX 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/
```

#### 4.3 Package installation

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

```
tex hopatch.dtx
```

<sup>1</sup>ftp://ftp.ctan.org/tex-archive/

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

```
\label{lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_lower_low
```

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 (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run texhash or mktexlsr.

#### 4.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the .dtx source file. It can be extracted by AcrobatReader 6 or higher. Another option is pdftk, e.g. unpack the file into the current directory:

```
pdftk hopatch.pdf unpack_files output .
```

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{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 pdfIAT<sub>F</sub>X:

```
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)
```

```
295 <?xml version='1.0' encoding='us-ascii'?>
296 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
297 <entry datestamp='$Date$' modifier='$Author$' id='hopatch'>
     <name>hopatch</name>
     <caption>Load patches for packages.</caption>
     <authorref id='auth:oberdiek'/>
300
     <copyright owner='Heiko Oberdiek' year='2011,2012'/>
301
302
     <license type='lppl1.3'/>
     <version number='1.2'/>
303
304
     <description>
305
       The hopatch package provides a command with which the user may
       register a piece of patch code for a particular package. Hopatch
306
       will apply the patch immediately, if the relevant package has
307
308
       already been loaded; otherwise it will store the patch until the
309
       package appears.
310
       311
       The package is part of the  refid='oberdiek'>oberdiekpundle
312
     </description>
     <documentation details='Package documentation'</pre>
313
314
         href='ctan:/macros/latex/contrib/oberdiek/hopatch.pdf'/>
315
     <ctan file='true' path='/macros/latex/contrib/oberdiek/hopatch.dtx'/>
     <miktex location='oberdiek'/>
316
     <texlive location='oberdiek'/>
317
318
     <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
319 </entry>
320 (/catalogue)
```

#### 6 References

- [1] Philipp Lehman: The etoolbox Package 2011-01-03. CTAN:macros/latex/contrib/etoolbox/etoolbox.pdf
- [2] Martin Scharrer: The filehook Package; 2011-01-09. CTAN:macros/latex/contrib/filehook/filehook.pdf
- [3] Heiko Oberdiek: *The ltxcmds Package*; 2010-12-12. CTAN:macros/latex/contrib/oberdiek/ltxcmds.pdf
- [4] Peter Wilson, Lars Madsen: The Memoir Class for Configurable Typesetting, User Guide; 2010. CTAN:macros/latex/contrib/memoir/memman.pdf
- [5] Markus Kohm, Jens-Uwe Morawski: *The Guide KOMA-Script*; 2011-01-20. CTAN:macros/latex/contrib/koma-script/scrguien.pdf

## 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  $\varepsilon$ -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.

$\mathbf{Symbols}$	\HOpatch@counter <u>57, 61, 64, 70, 71, 90</u>
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