

The etexcmds package

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Abstract

New primitive commands are introduced in ε -TeX. Sometimes the names collide with existing macros. This package solves this name clashes by adding a prefix to ε -TeX's commands. For example, ε -TeX's `\unexpanded` is provided as `\etex@unexpanded`.

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1 Documentation

New primitive commands are introduced in ε -TeX. Unhappily `\unexpanded` collides with a macro in ConTeXt with the same name. This also affects the L^AT_EX world. For example, package `m-ch-de` loads `base/syst-gen.tex` that redefines `\unexpanded`. Thus this package defines `\etex@unexpanded` to get rid of the name clash.

2 Implementation

¹ `<*package>`

2.1 Reload check and package identification

Reload check, especially if the package is not used with L^AT_EX.

```

2 \begingroup
3 \catcode44 12 % ,
4 \catcode45 12 % -
5 \catcode46 12 % .
6 \catcode58 12 % :
7 \catcode64 11 % @
8 \expandafter\let\expandafter\x\csname ver@etexcmds.sty\endcsname
9 \ifcase 0%
10 \ifx\x\relax % plain
11 \else
12 \ifx\x\empty % LaTeX
13 \else
14 1%
15 \fi
16 \fi
17 \else
18 \expandafter\ifx\csname PackageInfo\endcsname\relax
19 \def\x#1#2{%
20 \immediate\write-1{Package #1 Info: #2.}%
21 }%
22 \else
23 \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
24 \fi
25 \x{etexcmds}{The package is already loaded}%
26 \endgroup
27 \expandafter\endinput
28 \fi
29 \endgroup

```

Package identification:

```

30 \begingroup
31 \catcode40 12 % (
32 \catcode41 12 % )
33 \catcode44 12 % ,
34 \catcode45 12 % -
35 \catcode46 12 % .
36 \catcode47 12 % /
37 \catcode58 12 % :
38 \catcode64 11 % @
39 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
40 \def\x#1#2#3[#4]{\endgroup
41 \immediate\write-1{Package: #3 #4}%
42 \xdef#1{#4}%
43 }%
44 \else
45 \def\x#1#2[#3]{\endgroup
46 #2[#{#3}]%
47 \ifx#1\relax
48 \xdef#1{#3}%
49 \fi
50 }%
51 \fi
52 \expandafter\x\csname ver@etexcmds.sty\endcsname
53 \ProvidesPackage{etexcmds}%
54 [2007/05/06 v1.0 Providing prefix for e-TeX command names (H0)]

```

2.2 Catcodes

```

55 \expandafter\edef\csname etexcmds@End\endcsname{%
56 \catcode44 \the\catcode44\relax % ,
57 \catcode45 \the\catcode45\relax % -
58 \catcode46 \the\catcode46\relax % .
59 \catcode61 \the\catcode61\relax % =

```

```

60 \catcode64 \the\catcode64\relax % @
61 \noexpand\endinput
62 }
63 \catcode44 12 % ,
64 \catcode45 12 % -
65 \catcode46 12 % .
66 \catcode61 12 % =
67 \catcode64 11 % @

```

2.3 Load package infwarerr

```

68 \begingroup\expandafter\expandafter\expandafter\endgroup
69 \expandafter\ifx\csname RequirePackage\endcsname\relax
70 \input infwarerr.sty\relax
71 \else
72 \RequirePackage{infwarerr}%
73 \fi

```

2.4 \unexpanded

\ifetex@unexpanded

```

74 \newif\ifetex@unexpanded

```

\etex@unexpanded

```

75 \begingroup
76 \escapechar=92 % backslash
77 \edef\x{\string\unexpanded}%
78 \edef\y{\meaning\unexpanded}%
79 \ifx\x\y
80 \endgroup
81 \let\etex@unexpanded\unexpanded
82 \etex@unexpandedtrue
83 \else
84 \edef\y{\meaning\normalunexpanded}%
85 \ifx\x\y
86 \endgroup
87 \let\etex@unexpanded\normalunexpanded
88 \etex@unexpandedtrue
89 \else
90 \edef\y{\meaning\@@unexpanded}%
91 \ifx\y
92 \endgroup
93 \let\etex@unexpanded\@@unexpanded
94 \etex@unexpandedtrue
95 \else
96 \endgroup
97 \@PackageInfoNoLine{etexcmds}{%
98   Could not find \string\unexpanded.\MessageBreak
99   That can mean that you are not using e-TeX or\MessageBreak
100   that some package has redefined \string\unexpanded.\MessageBreak
101   In the latter case, load this package earlier%
102 }%
103 \etex@unexpandedfalse
104 \fi
105 \fi
106 \fi

107 \InfWarErr@End
108 </package>

```

3 Test

```

109 <*test1>

```

```

110 \immediate\write16{etexcmds-test1.tex: test file for plainTeX}
111 \input etexcmds.sty\relax
112 \catcode'\@=11 %
113 \edef\x{\string\unexpanded}
114 \edef\y{\meaning\etex@unexpanded}
115 \ifx\x\y
116 \else
117   \@PackageError{etexcmds-test1}{Test failed}\@ehc
118 \fi
119 \end
120 </test1>

121 <*test2>
122 \NeedsTeXFormat{LaTeX2e}
123 \ProvidesFile{etexcmds-test2.tex}[2007/05/06 v1.0 Test file for LaTeX]
124 \RequirePackage{etexcmds}
125 \makeatletter
126 \edef\x{\string\unexpanded}
127 \edef\y{\meaning\etex@unexpanded}
128 \ifx\x\y
129 \else
130   \@PackageError{etexcmds-test2}{Test failed}\@ehc
131 \fi
132 \stop
133 </test2>

134 <*test3>
135 \NeedsTeXFormat{LaTeX2e}
136 \ProvidesFile{etexcmds-test3.tex}[2007/05/06 v1.0 Test file for LaTeX]
137 \documentclass{article}
138 \usepackage{m-pictex}
139 \usepackage{m-ch-de}
140 \usepackage{etexcmds}
141 \makeatletter
142 \ifetex@unexpanded
143   \edef\x{\string\unexpanded}%
144   \edef\y{\meaning\etex@unexpanded}%
145   \ifx\x\y
146   \else
147     \@PackageWarningNoLine{etexcmds-test3}{Test failed}%
148   \fi
149 \else
150   \@PackageWarningNoLine{etexcmds-test3}{%
151     Test failed because of ConTeXt%
152   }%
153 \fi
154 \stop
155 </test3>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/etexcmds.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/etexcmds.pdf](#) 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.

¹<http://ftp.ctan.org/tex-archive/>

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

TDS refers to the standard “A Directory Structure for T_EX 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 etexcmds.dtx
```

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

etexcmds.sty	→ tex/generic/oberdiek/etexcmds.sty
etexcmds.pdf	→ doc/latex/oberdiek/etexcmds.pdf
etexcmds-test1.tex	→ doc/latex/oberdiek/etexcmds-test1.tex
etexcmds-test2.tex	→ doc/latex/oberdiek/etexcmds-test2.tex
etexcmds-test3.tex	→ doc/latex/oberdiek/etexcmds-test3.tex
etexcmds.dtx	→ source/latex/oberdiek/etexcmds.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 T_EX distribution (teT_EX, mikT_EX, ...) relies on file name databases, you must refresh these. For example, teT_EX 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 etexcmds.pdf unpack_files output .
```

Unpacking with L^AT_EX. The .dtx chooses its action depending on the format:

plain-T_EX: Run docstrip and extract the files.

L^AT_EX: Generate the documentation.

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

```
latex \let\install=y\input{etexcmds.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 pdfL^AT_EX:

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

5 History

[2007/04/26 v1.0]

- First version.

6 Index

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