

The etexcmds package

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2007/05/06 v1.0

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`.

Contents

1	Documentation	1
2	Implementation	1
2.1	Reload check and package identification	1
2.2	Catcodes	2
2.3	Load package infwarerr	3
2.4	\unexpanded	3
3	Test	3
4	Installation	4
4.1	Download	4
4.2	Bundle installation	5
4.3	Package installation	5
4.4	Refresh file name databases	5
4.5	Some details for the interested	5
5	History	6
	[2007/04/26 v1.0]	6
6	Index	6

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

```

2.2 Catcodes

```

52 \expandafter\edef\csname etexcmds@End\endcsname{%
53 \catcode44 \the\catcode44\relax % ,
54 \catcode45 \the\catcode45\relax % -
55 \catcode46 \the\catcode46\relax % .
56 \catcode61 \the\catcode61\relax % =
57 \catcode64 \the\catcode64\relax % @
58 \noexpand\endinput
59 }

```

```

60 \catcode44 12 % ,
61 \catcode45 12 % -
62 \catcode46 12 % .
63 \catcode61 12 % =
64 \catcode64 11 % @

```

2.3 Load package infwarerr

```

65 \begingroup\expandafter\expandafter\expandafter\endgroup
66 \expandafter\ifx\csname RequirePackage\endcsname\relax
67   \input infwarerr.sty\relax
68 \else
69   \RequirePackage{infwarerr}%
70 \fi

```

2.4 \unexpanded

\ifetex@unexpanded

```

71 \newif\ifetex@unexpanded

```

\etex@unexpanded

```

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

104 \InfWarErr@End
105 \endpackage

```

3 Test

```

106 \test1\
107 \immediate\write16{etexcmds-test1.tex: test file for plainTeX}
108 \input etexcmds.sty\relax
109 \catcode'\@=11 %

```

```

110 \edef\x{\string\unexpanded}
111 \edef\y{\meaning\etex@unexpanded}
112 \ifx\x\y
113 \else
114   \@PackageError{etexcmds-test1}{Test failed}\@ehc
115 \fi
116 \end
117 </test1>

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

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

[CTAN:macros/latex/contrib/oberdiek/oberdiek-tds.zip](#)

¹<http://ftp.ctan.org/tex-archive/>

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- \TeX :

```
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):

<code>etexcmds.sty</code>	→	<code>tex/generic/oberdiek/etexcmds.sty</code>
<code>etexcmds.pdf</code>	→	<code>doc/latex/oberdiek/etexcmds.pdf</code>
<code>etexcmds-test1.tex</code>	→	<code>doc/latex/oberdiek/etexcmds-test1.tex</code>
<code>etexcmds-test2.tex</code>	→	<code>doc/latex/oberdiek/etexcmds-test2.tex</code>
<code>etexcmds-test3.tex</code>	→	<code>doc/latex/oberdiek/etexcmds-test3.tex</code>
<code>etexcmds.dtx</code>	→	<code>source/latex/oberdiek/etexcmds.dtx</code>

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 , mik \TeX , ...) relies on file name databases, you must refresh these. For example, te \TeX users run `texhash` or `mktextlsr`.

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 \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{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

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

Symbols	
\@	109
\@@unexpanded	87, 90
\@PackageError	114, 127
\@PackageInfoNoLine	94
\@PackageWarningNoLine	144, 147
\@ehc	114, 127
C	
\catcode	3, 4, 5, 6, 7, 31, 32, 33, 34, 35, 53, 54, 55, 56, 57, 60, 61, 62, 63, 64, 109
\csname	8, 18, 36, 49, 52, 66
D	
\documentclass	134
E	
\empty	12
\end	116
\endcsname	8, 18, 36, 49, 52, 66
\endinput	27, 58
\escapechar	73
\etex@unexpanded ...	72, 111, 124, 141
\etex@unexpandedfalse	100
\etex@unexpandedtrue	79, 85, 91
I	
\ifcase	9
\ifetex@unexpanded	71, 139
\ifx	10, 12, 18, 36, 44, 66, 76, 82, 88, 112, 125, 142
\immediate	20, 38, 107
\InfWarErr@End	104
\input	67, 108
M	
\makeatletter	122, 138
\meaning	75, 81, 87, 111, 124, 141
\MessageBreak	95, 96, 97
N	
\NeedsTeXFormat	119, 132
\newif	71
\normalunexpanded	81, 84
P	
\PackageInfo	23
\ProvidesFile	120, 133
\ProvidesPackage	50
R	
\RequirePackage	69, 121
S	
\stop	129, 151
T	
\the	53, 54, 55, 56, 57
U	
\unexpanded 74, 75, 78, 95, 97, 110, 123, 140
\usepackage	135, 136, 137
W	
\write	20, 38, 107
X	
\x 8, 10, 12, 19, 23, 25, 37, 42, 49, 74, 76, 82, 110, 112, 123, 125, 140, 142	
Y	
\y	75, 76, 81, 82, 87, 88, 111, 112, 124, 125, 141, 142