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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 $^{{\}rm ^*Please\ report\ any\ issues\ at\ https://github.com/ho-tex/oberdiek/issues}$

1 Documentation

1.1 \unexpanded

\etex@unexpanded

New primitive commands are introduced in ε -TeX. Unhappily \unexpanded collides with a macro in ConTeXt with the same name. This also affects the LATeX 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.

\ifetex@unexpanded

Package etexcmds can be loaded even if ε -TEX is not present or \unexpanded cannot be found. The switch \ifetex@unexpanded tells whether it is safe to use \etex@unexpanded. The switch is true (\iffrue) only if the primitive \unexpanded has been found and \etex@unexpanded is available.

1.2 \expanded

Probably \expanded will be added in pdfTEX 1.50 and LuaTEX. Again ConTEXt defines this as macro. Therefore version 1.2 of this packages also provides \etex@expanded and \ifetex@unexpanded.

2 Implementation

```
1 (*package)
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with LATEX.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3 \catcode13=5 % ^^M
4 \endlinechar=13 %
5 \catcode35=6 % #
6 \catcode39=12 % '
7 \catcode44=12 \%,
   \catcode45=12 % -
8
9 \catcode46=12 \% .
   \catcode58=12 % :
10
   \catcode64=11 % @
11
   \catcode123=1 % {
12
   \catcode125=2 % }
   \expandafter\let\expandafter\x\csname ver@etexcmds.sty\endcsname
15
   \ifx\x\relax % plain-TeX, first loading
   \else
16
    \def\empty{}%
17
     \ifx\x\empty % LaTeX, first loading,
18
      % variable is initialized, but \ProvidesPackage not yet seen
19
20
21
      \expandafter\ifx\csname PackageInfo\endcsname\relax
22
        \def\x#1#2{\%}
23
         \immediate\write-1{Package #1 Info: #2.}%
24
       }%
25
       \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
26
27
      \verb|\x{etexcmds}{The package is already loaded}| %
28
```

```
\aftergroup\endinput
29
30
    \fi
31
32 \endgroup%
Package identification:
33 \begingroup\catcode61\catcode48\catcode32=10\relax%
    \catcode13=5 % ^^M
34
    \endlinechar=13 %
35
    \catcode35=6 % #
36
37
    \catcode39=12 % '
    \catcode40=12 % (
38
    \catcode41=12 % )
39
    \catcode44=12 % ,
40
    \catcode45=12 % -
41
    \catcode46=12 % .
42
    \catcode47=12 % /
43
    \catcode58=12 %:
44
    \catcode64=11 % @
45
   \catcode91=12 % [
46
47 \catcode93=12 % ]
    \catcode123=1 % {
    \catcode125=2 % }
49
    \expandafter\ifx\csname ProvidesPackage\endcsname\relax
50
     \def\x#1#2#3[#4]{\endgroup}
51
       52
       \xdef#1{#4}%
53
     }%
54
    \else
55
56
      \def\x#1#2[#3]{\endgroup}
57
       #2[{#3}]%
58
       \ifx#1\@undefined
59
        \xdef#1{#3}%
       ۱fi
60
       \inf #1 \operatorname{ln}
61
        \xdef#1{#3}%
62
       \fi
63
     }%
64
    \fi
65
66 \expandafter\x\csname ver@etexcmds.sty\endcsname
67 \ProvidesPackage{etexcmds}%
    [2016/05/16 v1.6 Avoid name clashes with e-TeX commands (HO)]%
```

2.2 Catcodes

```
69 \begingroup\catcode61\catcode48\catcode32=10\relax%
                              \catcode13=5 % ^^M
71 \endlinechar=13 %
72 \catcode123=1 % {
73 \catcode125=2 % }
74
                              \catcode64=11 % @
75
                               \def\x{\endgroup
                                             \expandafter\edef\csname etexcmds@AtEnd\endcsname{%
76
                                                          \endlinechar=\the\endlinechar\relax
77
                                                          \catcode13=\the\catcode13\relax
78
79
                                                        \catcode32=\the\catcode32\relax
                                                          \catcode35=\the\catcode35\relax
80
                                                          \colored{catcode61=\the\catcode61\relax}
81
82
                                                          \colored{catcode64} \to \colored{catcode64}
83
                                                        \color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=\color=
84
                                                        \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
                                          }%
85
                             }%
86
```

```
87 \x\catcode61\catcode48\catcode32=10\relax%
   88 \catcode13=5 % ^^M
   89 \endlinechar=13 %
   90 \catcode35=6 % #
   91 \catcode64=11 % @
  92 \catcode123=1 % {
   93 \catcode125=2 % }
   94 \def\TMP@EnsureCode#1#2{%
                \edef\etexcmds@AtEnd{%
   95
                     \etexcmds@AtEnd
   96
                     \color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\the\color=\t
   97
               }%
  98
               \color= 42\relax
  99
100 }
101 \TMP@EnsureCode{39}{12}% '
102 \TMP@EnsureCode{40}{12}% (
103 \TMP@EnsureCode{41}{12}%)
104 \TMP@EnsureCode{44}{12}\% ,
105 \TMP@EnsureCode{45}{12}% -
106 \TMP@EnsureCode{46}{12}%.
107 \TMP@EnsureCode{47}{12}% /
108 \TMP@EnsureCode{60}{12}% <
109 \TMP@EnsureCode{91}{12}% [
110 \TMP@EnsureCode{93}{12}% ]
111 \edef\etexcmds@AtEnd{%
                \etexcmds@AtEnd
113
                \escapechar\the\escapechar\relax
114
                \noexpand\endinput
115 }
116 \escapechar=92 % backslash
```

2.3 Provide \newif

\etexcmds@newif

```
117 \def\etexcmds@newif#1{%
    \expandafter\edef\csname etex@#1false\endcsname{%
118
      \let
119
      \expandafter\noexpand\csname ifetex@#1\endcsname
120
      \noexpand\iffalse
121
122
    \expandafter\edef\csname etex@#1true\endcsname{%
123
124
      \expandafter\noexpand\csname ifetex@#1\endcsname
125
      \noexpand\iftrue
126
127
    }%
    \csname etex@#1false\endcsname
128
129 }
```

2.4 Load package infwarerr

```
130 \begingroup\expandafter\expandafter\expandafter\endgroup
131 \expandafter\ifx\csname RequirePackage\endcsname\relax
132
                        \def\TMP@RequirePackage#1[#2]{%
                               \verb|\begingroup| expands fter e
133
                               \expandafter\ifx\csname ver@#1.sty\endcsname\relax
134
                                       \input #1.sty\relax
135
                               \fi
136
137
                        \TMP@RequirePackage{infwarerr}[2007/09/09]%
138
                        \TMP@RequirePackage{ifluatex}[2010/03/01]%
139
140 \else
                        \RequirePackage{infwarerr}[2007/09/09]%
141
                        \RequirePackage{ifluatex}[2010/03/01]%
```

2.5 \unexpanded

```
\ifetex@unexpanded
                     144 \etexcmds@newif{unexpanded}
 \etex@unexpanded
                     145 \begingroup
                     146 \edf\x{\simeq \unexpanded}\%
                     147 \edef\y{\meaning\unexpanded}\%
                     148 \ifx\x\y
                     149 \endgroup
                         \let\etex@unexpanded\unexpanded
                     150
                     151 \etex@unexpandedtrue
                     152 \else
                         \edef\y{\meaning\normalunexpanded}%
                     153
                         ifx\x\y
                     154
                     155
                           \let\etex@unexpanded\normalunexpanded
                     156
                           \etex@unexpandedtrue
                     157
                     158
                         \else
                           \edef\y{\meaning\@@unexpanded}%
                     159
                           ifx\x\y
                     160
                            \endgroup
                     161
                            \let\etex@unexpanded\@@unexpanded
                     162
                     163
                            \etex@unexpandedtrue
                     164
                           \else
                     165
                            \ifluatex
                     166
                              \ifnum\luatexversion<36 %
                     167
                              \else
                               \begingroup
                     168
                                 \directlua{%
                     169
                                  tex.enableprimitives('etex@',{'unexpanded'})%
                     170
                     171
                                 \global\let\etex@unexpanded\etex@unexpanded
                     172
                     173
                               \endgroup
                              \fi
                     174
                            \fi
                     175
                     176
                            \edef\y{\meaning\etex@unexpanded}%
                     177
                            ifx\x\y
                     178
                              \endgroup
                     179
                              \etex@unexpandedtrue
                     180
                            \else
                              \endgroup
                     181
                              \@PackageInfoNoLine{etexcmds}{%
                     182
                               Could not find \string\unexpanded.\MessageBreak
                     183
                               That can mean that you are not using e-TeX or%
                     184
                               \MessageBreak
                     185
                     186
                               that some package has redefined \string\unexpanded.%
                     187
                               \MessageBreak
                               In the latter case, load this package earlier%
                     188
                              }%
                     189
                              \etex@unexpandedfalse
                     190
                            \fi
                     191
                           \fi
                     192
                     193 \fi
                     194 \fi
```

2.6 \expanded

\ifetex@expanded

195 \etexcmds@newif{expanded}

```
196 \begingroup
197 \edef\x{\string\expanded}%
198 \edef\y{\meaning\expanded}%
199 \ifx\x\y
200 \endgroup
201 \let\etex@expanded\expanded
202 \etex@expandedtrue
203 \else
204 \edef\y{\meaning\normalexpanded}%
205 \ \text{ifx}\x\y
      \endgroup
206
207
      \let\etex@expanded\normalexpanded
208
      \etex@expandedtrue
209
    \else
210
      \edef\y{\meaning\@@expanded}%
211
      ifx\x\y
212
       \endgroup
       \verb|\label{let-etex}| \textbf{Q} expanded \\
213
       \etex@expandedtrue
214
      \else
215
       \ifluatex
216
         217
218
         \else
          \begingroup
219
220
            \directlua{%
221
             {\tt tex.enable primitives('etex@', \{'expanded'\})\%}
222
223
            \global\let\etex@expanded\etex@expanded
224
          \endgroup
         \fi
225
226
       \fi
227
       \edef\y{\meaning\etex@expanded}%
228
       ifx\x\y
229
         \endgroup
230
         \etex@expandedtrue
231
        \else
232
         \endgroup
         \@PackageInfoNoLine{etexcmds}{%
233
          Could not find \string\expanded.\MessageBreak
234
          That can mean that you are not using pdfTeX 1.50 or%
235
          \MessageBreak
236
          that some package has redefined \string\expanded.%
237
238
          \MessageBreak
          In the latter case, load this package earlier%
239
240
241
         \etex@expandedfalse
242
       \fi
243
      \fi
    \fi
244
245 \fi
246 \etexcmds@AtEnd%
247 (/package)
```

3 Test

3.1 Catcode checks for loading

```
248 (*test1)
249 \catcode`\{=1 %
```

```
250 \catcode`\}=2 %
251 \catcode`\#=6 %
252 \catcode`\@=11 %
253 \expandafter\ifx\csname count@\endcsname\relax
254 \countdef\count@=255 %
255 \fi
256 \exp and after if x \cos ame \end{csname} relax
257 \ \ensuremath{\long\def\@gobble\#1{}}\%
258 \fi
259 \exp and after ifx \csname 
260 \long\def\@firstofone#1{#1}%
261 \fi
262 \expandafter\ifx\csname loop\endcsname\relax
                    \expandafter\@firstofone
                  \expandafter\@gobble
266 \fi
267 {%
                    \def \loop \#1 \repeat {\%}
268
269
                          \def\body{#1}\%
                         \iterate
270
                  }%
271
                    \def\iterate{%
272
273
                          \body
                                \let\next\iterate
274
275
                           \else
                                \left\langle \cdot \right\rangle 
276
277
                          \fi
278
                          \next
                  }%
279
                  \left| \right| 
280
281 }%
282 \def\RestoreCatcodes{}
283 \count@=0 %
284 \loop
                   \edef\RestoreCatcodes{%
286
                         \RestoreCatcodes
                         \verb|\catcode| the \catcode| count@=\the \cat
287
288 }%
289 \ifnum\count@<255 \%
290 \advance\count@ 1 \%
291 \repeat
292
293 \def\RangeCatcodeInvalid#1#2{%
294
                    \count@=#1\relax
295
                    \loop
296
                         \catcode\count@=15 %
297
                    298
                         \advance\count@ 1 %
299
                   \repeat
300 }
301 \def\RangeCatcodeCheck#1#2#3{\%
                    \verb|\count@=#1\relax|
302
303
                    \loop
                          \ifnum#3=\catcode\count@
304
305
                          \else
306
                                \errmessage{%
307
                                      Character \the\count@\space
308
                                      with wrong catcode \the\catcode\count@\space
                                     instead of \number#3%
309
                              }%
310
311
                         \fi
```

```
312 \ifnum\count@<#2\relax
313
              \advance\count@ 1 %
314
           \repeat
315 }
316 \def\space{ }
317 \expandafter\ifx\csname LoadCommand\endcsname\relax
318 \def\LoadCommand{\input etexcmds.sty\relax}%
319 \fi
320 \left\{ \text{Test} \right\}
321 \RangeCatcodeInvalid{0}{47}%
322 \RangeCatcodeInvalid{58}{64}%
323 \RangeCatcodeInvalid{91}{96}%
324 \RangeCatcodeInvalid{123}{255}%
325 \catcode`\@=12 %
326 \catcode`\\=0 %
327 \catcode`\%=14 %
328 \LoadCommand
329 \RangeCatcodeCheck{0}{36}{15}\%
330 \RangeCatcodeCheck{37}{37}{14}%
331 \RangeCatcodeCheck{38}{47}{15}%
332 \RangeCatcodeCheck{48}{57}{12}%
           \RangeCatcodeCheck{58}{63}{15}%
333
           \RangeCatcodeCheck{64}{64}{12}%
334
335
           \RangeCatcodeCheck{65}{90}{11}%
           \RangeCatcodeCheck{91}{91}{15}%
336
           \RangeCatcodeCheck{92}{92}{0}%
337
338
           \RangeCatcodeCheck{93}{96}{15}%
339
           \RangeCatcodeCheck{97}{122}{11}%
340
           \RangeCatcodeCheck{123}{255}{15}%
341
           \RestoreCatcodes
342 }
343 \Test
344 \csname @@end\endcsname
345 \end
346 \langle / \text{test1} \rangle
3.2 Macro tests
347 (*test2)
348 \immediate\write16{etexcmds-test2.tex: test file for plainTeX}
349 \input etexcmds.sty\relax
350 \catcode`\@=11 %
351 \edef\x{\string\unexpanded}
352 \egg(\mbox{\mbox{$\sim$}} 352 \egg(\mbox{\mbo
353 \ifx\x\y
354 \else
           \@PackageError{etexcmds-test2}{Test failed}\@ehc
355
356 \fi
357 \end
358 (/test2)
359 (*test3)
360 \NeedsTeXFormat{LaTeX2e}
361 \ProvidesFile{etexcmds-test3.tex}[2016/05/16 v1.6 Test file for LaTeX]
362 \RequirePackage{etexcmds}
363 \makeatletter
364 \edef\x{\string\unexpanded}
365 \edef\y{\meaning\etex@unexpanded}
366 \text{ } \text{ifx} \text{ } \text{y}
367 \else
368 \ \ensuremath{\texttt{QPackageError\{etexcmds-test3\}\{Test\ failed\}\ensuremath{\texttt{Qehc}}}
369 \fi
370 \stop
371 (/test3)
```

```
372 (*test4)
373 \NeedsTeXFormat{LaTeX2e}
374 \ProvidesFile{etexcmds-test4.tex}[2016/05/16 v1.6 Test file for LaTeX]
375 \documentclass{article}
376 \usepackage{m-pictex}
377 \def\normalwritestatus#1#2{%
378 \typeout{EMERGENCY HACK \string\normalwritestatus}\%
379
    \typeout{#1: #2}%
380 }
381 \usepackage{m-ch-de}
382 \usepackage{etexcmds}
383 \makeatletter
384 \ifetex@unexpanded
    \edef\x{\string\unexpanded}%
386 \edef\y{\meaning\etex@unexpanded}%
387 \left( ifx x \right)
388
    \else
     \@PackageWarningNoLine{etexcmds-test4}{Test failed}%
389
390 \fi
391 \else
    \@PackageWarningNoLine{etexcmds-test4}{%
392
      Test failed because of ConTeXt%
393
394
    }%
395 \fi
396 \stop
397 (/test4)
```

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: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/
```

¹http://ctan.org/pkg/etexcmds

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_FX:

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):

```
\begin{array}{lll} {\rm etexcmds.sty} & \to {\rm tex/generic/oberdiek/etexcmds.sty} \\ {\rm etexcmds.pdf} & \to {\rm doc/latex/oberdiek/etexcmds.pdf} \\ {\rm test/etexcmds.test1.tex} & \to {\rm doc/latex/oberdiek/test/etexcmds.test1.tex} \\ {\rm test/etexcmds.test2.tex} & \to {\rm doc/latex/oberdiek/test/etexcmds.test2.tex} \\ {\rm test/etexcmds.test3.tex} & \to {\rm doc/latex/oberdiek/test/etexcmds.test3.tex} \\ {\rm test/etexcmds.test4.tex} & \to {\rm doc/latex/oberdiek/test/etexcmds.test4.tex} \\ {\rm etexcmds.dtx} & \to {\rm source/latex/oberdiek/etexcmds.dtx} \\ \end{array}
```

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 (te T_EX , mik T_EX , ...) relies on file name databases, you must refresh these. For example, te T_EX 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:

```
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 pdfIAT_EX:

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

```
398 (*catalogue)
399 <?xml version='1.0' encoding='us-ascii'?>
400 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
401 <entry datestamp='$Date$' modifier='$Author$' id='etexcmds'>
402 <name>etexcmds</name>
403 <caption>Avoid name clashes with e-TeX commands.</caption>
404 <authorref id='auth:oberdiek'/>
405 <copyright owner='Heiko Oberdiek' year='2007,2010,2011'/>
406 406 406 406 406 
407 <version number='1.6'/>
408
    <description>
     New primitive commands are introduced in e-TeX; sometimes the
409
      names collide with existing macros. This package solves the
410
      name clashes by adding a prefix to e-TeX's commands. For
411
      example, eTeX's <tt>\unexpanded</tt> is provided as
412
413
      <tt>\etex@unexpanded</tt>.
414
415
      416
      The package is part of the <xref refid='oberdiek'>oberdiek</xref>
417
      bundle.
418
    </description>
    <documentation details='Package documentation'</pre>
419
       href='ctan:/macros/latex/contrib/oberdiek/etexcmds.pdf'/>
420
421 <ctan file='true' path='/macros/latex/contrib/oberdiek/etexcmds.dtx'/>
422 <miktex location='oberdiek'/>
423 <texlive location='oberdiek'/>
424 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
425 </entry>
426 (/catalogue)
```

6 History

[2007/05/06 v1.0]

• First version.

[2007/09/09 v1.1]

- Documentation for \ifetex@unexpanded added.
- Catcode section rewritten.

[2007/12/12 v1.2]

• \etex@expanded added.

[2010/01/28 v1.3]

• Compatibility to iniT_EX added.

[2011/01/30 v1.4]

• Already loaded package files are not input in plain T_EX .

[2011/02/16 v1.5]

• Using LuaTeX's tex.enableprimitives if available.

[2016/05/16 v1.6]

• Documentation updates.

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