

# The infwarerr package

Heiko Oberdiek  
<oberdiek@uni-freiburg.de>

2007/09/09 v1.2

## Abstract

This package provides a complete set of macros for informations, warnings and error messages with support for plain-TeX.

## Contents

|   |           |
|---|-----------|
| <b>1 Documentation</b>                                    | <b>1</b>  |
| <b>2 Implementation</b>                                   | <b>2</b>  |
| 2.1 Reload check and package identification . . . . .     | 2         |
| 2.2 Catcodes . . . . .                                    | 3         |
| 2.3 L <sup>A</sup> T <sub>E</sub> X detection . . . . .   | 3         |
| 2.4 Version for L <sup>A</sup> T <sub>E</sub> X . . . . . | 4         |
| 2.5 Version for plain-TeX . . . . .                       | 5         |
| <b>3 Test</b>   | <b>7</b>  |
| 3.1 Catcode checks for loading . . . . .                  | 7         |
| 3.2 Macro tests . . . . .                                 | 9         |
| <b>4 Installation</b>                                     | <b>12</b> |
| 4.1 Download . . . . .                                    | 12        |
| 4.2 Bundle installation . . . . .                         | 12        |
| 4.3 Package installation . . . . .                        | 13        |
| 4.4 Refresh file name databases . . . . .                 | 13        |
| 4.5 Some details for the interested . . . . .             | 13        |
| <b>5 History</b>  | <b>14</b> |
| [2007/04/26 v1.0] . . . . .                               | 14        |
| [2007/06/14 v1.1] . . . . .                               | 14        |
| [2007/09/09 v1.2] . . . . .                               | 14        |
| <b>6 Index</b>  | <b>14</b> |

## 1 Documentation

Package `infwarerr` defines the following set of commands, given as pseudo regular expression:

```
\@(Package|Class)(Info|InfoNoLine|Warning|WarningNoLine|Error)
```

The first argument is the package or class in question. The second argument contains the message text. `\MessageBreak` is supported. In case of error messages, the third argument contains the help text. Supported are L<sup>A</sup>T<sub>E</sub>X's message texts `\@ehc`:

Try typing <return> to proceed  
 If that doesn't work, type X <return> to quit.

and \@ehd:

You're in trouble here. Try typing <return> to proceed  
 If that doesn't work, type X <return> to quit.

The package is intended for macro writers that want to write code that works for both L<sup>A</sup>T<sub>E</sub>X and plain-T<sub>E</sub>X. If L<sup>A</sup>T<sub>E</sub>X is detected, then the macros of this package will only be wrappers for L<sup>A</sup>T<sub>E</sub>X's macros. Otherwise L<sup>A</sup>T<sub>E</sub>X's macros will be mimicked for use with plain-T<sub>E</sub>X.

## 2 Implementation

1 (\*package)

### 2.1 Reload check and package identification

Reload check, especially if the package is not used with L<sup>A</sup>T<sub>E</sub>X.

```

2 \begingroup
3 \catcode44 12 % ,
4 \catcode45 12 % -
5 \catcode46 12 % .
6 \catcode58 12 % :
7 \catcode64 11 % @
8 \catcode123 1 % {
9 \catcode125 2 % }
10 \expandafter\let\expandafter\x\csname ver@infwarerr.sty\endcsname
11 \ifx\x\relax % plain-TeX, first loading
12 \else
13 \def\empty{}%
14 \ifx\x\empty % LaTeX, first loading,
15 % variable is initialized, but \ProvidesPackage not yet seen
16 \else
17 \catcode35 6 % #
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{infwarerr}{The package is already loaded}%
26 \aftergroup\endinput
27 \fi
28 \fi
29 \endgroup

```

Package identification:

```

30 \begingroup
31 \catcode35 6 % #
32 \catcode40 12 % (
33 \catcode41 12 % )
34 \catcode44 12 % ,
35 \catcode45 12 % -
36 \catcode46 12 % .
37 \catcode47 12 % /
38 \catcode58 12 % :
39 \catcode64 11 % @
40 \catcode91 12 % [
41 \catcode93 12 % ]
42 \catcode123 1 % {

```

```

43 \catcode125 2 % }
44 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
45 \def\x#1#2#3[#4]{\endgroup
46 \immediate\write-1{Package: #3 #4}%
47 \xdef#1{#4}%
48 }%
49 \else
50 \def\x#1#2[#3]{\endgroup
51 #2[#{#3}]%
52 \ifx#1\@undefined
53 \xdef#1{#3}%
54 \fi
55 \ifx#1\relax
56 \xdef#1{#3}%
57 \fi
58 }%
59 \fi
60 \expandafter\x\csname ver@infwarerr.sty\endcsname
61 \ProvidesPackage{infwarerr}%
62 [2007/09/09 v1.2 Providing info/warning/message (H0)]

```

## 2.2 Catcodes

```

63 \begingroup
64 \catcode123 1 % {
65 \catcode125 2 % }
66 \def\x{\endgroup
67 \expandafter\edef\csname InfWarErr@AtEnd\endcsname{%
68 \catcode35 \the\catcode35\relax
69 \catcode64 \the\catcode64\relax
70 \catcode123 \the\catcode123\relax
71 \catcode125 \the\catcode125\relax
72 }%
73 }%
74 \x
75 \catcode35 6 % #
76 \catcode64 11 % @
77 \catcode123 1 % {
78 \catcode125 2 % }
79 \def\TMP@EnsureCode#1#2{%
80 \edef\InfWarErr@AtEnd{%
81 \InfWarErr@AtEnd
82 \catcode#1 \the\catcode#1\relax
83 }%
84 \catcode#1 #2\relax
85 }
86 \TMP@EnsureCode{10}{12}% ^^J
87 \TMP@EnsureCode{39}{12}% '
88 \TMP@EnsureCode{40}{12}% (
89 \TMP@EnsureCode{41}{12}% )
90 \TMP@EnsureCode{44}{12}% ,
91 \TMP@EnsureCode{45}{12}% -
92 \TMP@EnsureCode{46}{12}% .
93 \TMP@EnsureCode{58}{12}% :
94 \TMP@EnsureCode{60}{12}% <
95 \TMP@EnsureCode{61}{12}% =
96 \TMP@EnsureCode{62}{12}% >
97 \TMP@EnsureCode{94}{7}% ^

```

## 2.3 L<sup>A</sup>T<sub>E</sub>X detection

```

98 \begingroup
99 \let\x=Y%

```

```

100 \def\check#1{%
101     \@check{Generic}{#1}%
102     \@check{Package}{#1}%
103     \@check{Class}{#1}%
104 }%
105 \def\@check#1#2{%
106     \expandafter\ifx\csname #1#2\endcsname\relax
107         \let\x=N%
108         \fi
109     }%
110     \@check{Info}%
111     \@check{Warning}%
112     \@check{Error}%
113     \@check{Package}{WarningNoLine}%
114     \@check{Class}{WarningNoLine}%
115     \@check{}{@ehc}%
116     \@check{}{@ehd}%
117 \expandafter\endgroup
118 \ifx\x Y%

```

## 2.4 Version for L<sup>A</sup>T<sub>E</sub>X

\@PackageInfo

```
119 \let\@PackageInfo\PackageInfo
```

\@PackageInfoNoLine

```

120 \def\@PackageInfoNoLine#1#2{%
121     \PackageInfo{#1}{#2@gobble}%
122 }%

```

\@ClassInfo

```
123 \let\@ClassInfo\ClassInfo
```

\@ClassInfoNoLine

```

124 \def\@ClassInfoNoLine#1#2{%
125     \ClassInfo{#1}{#2@gobble}%
126 }%

```

\@PackageWarning

```
127 \let\@PackageWarning\PackageWarning
```

\@PackageWarningNoLine

```
128 \let\@PackageWarningNoLine\PackageWarningNoLine
```

\@ClassWarning

```
129 \let\@ClassWarning\ClassWarning
```

\@ClassWarningNoLine

```
130 \let\@ClassWarningNoLine\ClassWarningNoLine
```

\@PackageError

```
131 \let\@PackageError\PackageError
```

\@ClassError

```
132 \let\@ClassError\ClassError
```

```
133 \InfWarErr@AtEnd
```

```
134 \expandafter\endinput
```

```
135 \fi
```

## 2.5 Version for plain-TeX

`\InfWarErr@online`

```

136 \begingroup\expandafter\endgroup
137 \ifcase\expandafter\ifx\csname inputlineno\endcsname\relax
138     0 %
139     \else
140         \ifnum\inputlineno<0 %
141             0 %
142         \else
143             1 %
144         \fi
145     \fi
146 \def\InfWarErr@online{}%
147 \else
148 \def\InfWarErr@online{ on input line \the\inputlineno}%
149 \fi

```

`\InfWarErr@protected`

```

150 \begingroup\expandafter\expandafter\expandafter\endgroup
151 \expandafter\ifx\csname protected\endcsname\relax
152 \def\InfWarErr@protected{}%
153 \else
154 \let\InfWarErr@protected\protected
155 \fi

```

`\InfWarErr@unused`

```

156 \chardef\InfWarErr@unused=16 %

```

`\InfWarErr@ehc`

```

157 \def\InfWarErr@ehc{%
158 Try typing \space <return> \space to proceed.\MessageBreak
159 If that doesn't work, type \space X <return> \space to quit.%
160 }

```

`\InfWarErr@ehd`

```

161 \def\InfWarErr@ehd{%
162 You're in trouble here. \space\@ehc
163 }

```

`\InfWarErr@GenericInfo`

```

164 \InfWarErr@protected\def\InfWarErr@GenericInfo#1#2{%
165 \begingroup
166 \let\on@line\InfWarErr@online
167 \long\def\@gobble##1{%
168 \def\space{ }%
169 \def\@spaces{\space\space\space\space}%
170 \def\MessageBreak{^^J#1}%
171 \newlinechar=10 %
172 \immediate\write-1{#2\on@line.}%
173 \endgroup
174 }

```

`\InfWarErr@GenericWarning`

```

175 \InfWarErr@protected\def\InfWarErr@GenericWarning#1#2{%
176 \begingroup
177 \let\on@line\InfWarErr@online
178 \long\def\@gobble##1{%
179 \def\space{ }%
180 \def\@spaces{\space\space\space\space}%
181 \def\MessageBreak{^^J#1}%

```

```

182     \newlinechar=10 %
183     \immediate\write\InfWarErr@unused{^^J#2\on@line.^^J}%
184 \endgroup
185 }

\InfWarErr@GenericError Old TeX versions below 3.141 where ^^J is not working as newline in error message
and help texts are not supported.

186 \InfWarErr@protected\def\InfWarErr@GenericError#1#2#3#4{%
187   \begingroup
188     \immediate\write\InfWarErr@unused{%
189       \newlinechar=10 %
190       \def\space{ }%
191       \def\@spaces{\space\space\space\space}%
192       \let\@ehc\InfWarErr@ehc
193       \let\@ehd\InfWarErr@ehd
194       \let\on@line\InfWarErr@online
195       \def\MessageBreak{^^J}%
196       \edef\InfWarErr@help{\noexpand\errhelp{#4}}%
197       \InfWarErr@help
198       \def\MessageBreak{^^J#1}%
199       \errmessage{%
200         #2.^^J^^J%
201         #3^^J%
202         Type \space H <return> \space for immediate help.^^J ...^^J%
203       }%
204   \endgroup
205 }

\@PackageInfo

206 \def\@PackageInfo#1#2{%
207   \InfWarErr@GenericInfo{%
208     (#1) \@spaces\@spaces\@spaces
209   }{%
210     Package #1 Info: #2%
211   }%
212 }

\@PackageInfoNoLine

213 \def\@PackageInfoNoLine#1#2{%
214   \@PackageInfo{#1}{#2@gobble}%
215 }

\@ClassInfo

216 \def\@ClassInfo#1#2{%
217   \InfWarErr@GenericInfo{%
218     (#1) \space\space\@spaces\@spaces
219   }{%
220     Class #1 Info: #2%
221   }%
222 }

\@ClassInfoNoLine

223 \def\@ClassInfoNoLine#1#2{%
224   \@ClassInfo{#1}{#2@gobble}%
225 }

\@PackageWarning

226 \def\@PackageWarning#1#2{%
227   \InfWarErr@GenericWarning{%
228     (#1)\@spaces\@spaces\@spaces\@spaces
229   }{%

```

```

230     Package #1 Warning: #2%
231 }%
232 }

\@PackageWarningNoLine

233 \def\@PackageWarningNoLine#1#2{%
234   \@PackageWarning{#1}{#2\@gobble}%
235 }

\@ClassWarning

236 \def\@ClassWarning#1#2{%
237   \InfWarErr@GenericWarning{%
238     (#1) \space\@spaces\@spaces\@spaces
239   }{%
240     Class #1 Warning: #2%
241   }%
242 }

\@ClassWarningNoLine

243 \def\@ClassWarningNoLine#1#2{%
244   \@ClassWarning{#1}{#2\@gobble}%
245 }

\@PackageError

246 \def\@PackageError#1#2#3{%
247   \InfWarErr@GenericError{%
248     (#1)\@spaces\@spaces\@spaces\@spaces
249   }{%
250     Package #1 Error: #2%
251   }{%
252     See the #1 package documentation for explanation.%
253   }{#3}%
254 }

\@ClassError

255 \def\@ClassError#1#2#3{%
256   \InfWarErr@GenericError{%
257     (#1) \space\@spaces\@spaces\@spaces
258   }{%
259     Class #1 Error: #2%
260   }{%
261     See the #1 class documentation for explanation.%
262   }{#3}%
263 }

264 \InfWarErr@AtEnd
265 \</package>

```

## 3 Test

### 3.1 Catcode checks for loading

```

266 \test1\
267 \catcode'\{=1 %
268 \catcode'\}=2 %
269 \catcode'\#=6 %
270 \catcode'\@=11 %
271 \expandafter\ifx\csname count@\endcsname\relax
272   \countdef\count@=255 %
273 \fi

```

```

274 \expandafter\ifx\csname @gobble\endcsname\relax
275   \long\def\@gobble#1{}%
276 \fi
277 \expandafter\ifx\csname @firstofone\endcsname\relax
278   \long\def\@firstofone#1{#1}%
279 \fi
280 \expandafter\ifx\csname loop\endcsname\relax
281   \expandafter\@firstofone
282 \else
283   \expandafter\@gobble
284 \fi
285 {%
286   \def\loop#1\repeat{%
287     \def\body{#1}%
288     \iterate
289   }%
290   \def\iterate{%
291     \body
292     \let\next\iterate
293   \else
294     \let\next\relax
295   \fi
296   \next
297 }%
298 \let\repeat=\fi
299 }%
300 \def\RestoreCatcodes{}
301 \count@=0 %
302 \loop
303   \edef\RestoreCatcodes{%
304     \RestoreCatcodes
305     \catcode\the\count@=\the\catcode\count@\relax
306   }%
307 \ifnum\count@<255 %
308   \advance\count@ 1 %
309 \repeat
310
311 \def\RangeCatcodeInvalid#1#2{%
312   \count@=#1\relax
313   \loop
314     \catcode\count@=15 %
315     \ifnum\count@<#2\relax
316       \advance\count@ 1 %
317     \repeat
318 }
319 \expandafter\ifx\csname LoadCommand\endcsname\relax
320   \def\LoadCommand{\input infwarerr.sty\relax}%
321 \fi
322 \def\Test{%
323   \RangeCatcodeInvalid{0}{47}%
324   \RangeCatcodeInvalid{58}{64}%
325   \RangeCatcodeInvalid{91}{96}%
326   \RangeCatcodeInvalid{123}{255}%
327   \catcode'\@=12 %
328   \catcode'\|=0 %
329   \catcode'\{=1 %
330   \catcode'\}=2 %
331   \catcode'\#=6 %
332   \catcode'\[=12 %
333   \catcode'\]=12 %
334   \catcode'\%=14 %
335   \catcode'\ =10 %

```



```

336 \catcode13=5 %
337 \LoadCommand
338 \RestoreCatcodes
339 }
340 \Test
341 \csname @@end\endcsname
342 \end
343 \</test1>

```

## 3.2 Macro tests

```

344 (*test2)
345 \let\PackageInfo\relax
346 \input infwarerr.sty\relax
347 \let\OrgWrite\write
348 \chardef\WriteUnused=16 %
349 \def\msg#{\immediate\OrgWrite\WriteUnused}
350 \msg{File: infwarerr-test2.tex 2007/09/09 v1.2 Test file for plain-Tex}
351 \catcode64=11 %
352 \</test2>

353 (*test3)
354 \NeedsTeXFormat{LaTeX2e}
355 \ProvidesFile{infwarerr-test3.tex}[2007/09/09 v1.2 Test file for LaTeX]
356 \RequirePackage{infwarerr}[2007/09/09]
357 \makeatletter
358 \let\OrgWrite\write
359 \chardef\WriteUnused=\@unused
360 \def\msg#{\immediate\OrgWrite\WriteUnused}
361 \</test3>

362 (*test2 | test3)
363 \def\pkgname{PACKAGE}
364 \def\clsname{CLASS}
365 \def\msgtext{MESSAGE\MessageBreak SECOND LINE}
366 \def\hlptext{HELP\MessageBreak SECOND LINE}
367
368 \let\OrgWrite\write
369 \let\OrgErrMessage\errmessage
370
371 \def\write#1#{%
372   \@write{#1}%
373 }
374 \def\@write#1#2{%
375   \OrgWrite#1{#2}%
376   \xdef\WriteNum{\number#1}%
377   \xdef\WriteText{#2}%
378 }
379 \def\TestFailed#1#2{%
380   \OrgErrMessage{Test (\string#1) failed: #2}%
381 }
382 \def\TestWrite#1#2#3{%
383   \ifnum\WriteNum=#2\relax
384   \else
385     \TestFailed#1{write stream number: \WriteNum <> #2}%
386   \fi
387   \begingroup
388     \let~\space
389     \edef\TestString{#3}%
390     \ifx\WriteText\TestString
391     \else
392       \msg{}%
393       \msg{[\WriteText]}%
394       \msg{<>}%

```

```

395     \msg{[#3]}% hash-ok
396     \TestFailed#1{write text}%
397     \fi
398 \endgroup
399 }
400 \newtoks\ErrHelpToks
401 \def\errmessage#1{%
402   \global\ErrHelpToks=\expandafter{\the\errhelp}%
403   \msg{***** error message *****}%
404   \msg{! #1}%
405   \msg{***** help message *****}%
406   \msg{\the\errhelp}%
407   \msg{*****}%
408   \xdef\ErrorMessage{! #1}%
409 }
410 \def\TestInfo{%
411   \@PackageInfo\pkgname\msgtext
412   \TestWrite\@PackageInfo{-1}{%
413     Package PACKAGE Info: MESSAGE^^J%
414     (PACKAGE)~~~~~SECOND LINE on input line \the\inputlineno.%
415   }%
416   \@PackageInfoNoLine\pkgname\msgtext
417   \TestWrite\@PackageInfoNoLine{-1}{%
418     Package PACKAGE Info: MESSAGE^^J%
419     (PACKAGE)~~~~~SECOND LINE.%
420   }%
421   \@ClassInfo\clsname\msgtext
422   \TestWrite\@ClassInfo{-1}{%
423     Class CLASS Info: MESSAGE^^J%
424     (CLASS)~~~~~SECOND LINE on input line \the\inputlineno.%
425   }%
426   \@ClassInfoNoLine\clsname\msgtext
427   \TestWrite\@ClassInfoNoLine{-1}{%
428     Class CLASS Info: MESSAGE^^J%
429     (CLASS)~~~~~SECOND LINE.%
430   }%
431 }
432 \def\TestWarning{%
433   \@PackageWarning\pkgname\msgtext
434   \TestWrite\@PackageWarning\WriteUnused{%
435     ^^J%
436     Package PACKAGE Warning: MESSAGE^^J%
437     (PACKAGE)~~~~~SECOND LINE on input line \the\inputlineno.%
438     ^^J%
439   }%
440   \@PackageWarningNoLine\pkgname\msgtext
441   \TestWrite\@PackageWarningNoLine\WriteUnused{%
442     ^^J%
443     Package PACKAGE Warning: MESSAGE^^J%
444     (PACKAGE)~~~~~SECOND LINE.%
445     ^^J%
446   }%
447   \@ClassWarning\clsname\msgtext
448   \TestWrite\@ClassWarning\WriteUnused{%
449     ^^J%
450     Class CLASS Warning: MESSAGE^^J%
451     (CLASS)~~~~~SECOND LINE on input line \the\inputlineno.%
452     ^^J%
453   }%
454   \@ClassWarningNoLine\clsname\msgtext
455   \TestWrite\@ClassWarningNoLine\WriteUnused{%
456     ^^J%

```

```

457     Class CLASS Warning: MESSAGE^^J%
458     (CLASS)~~~~~SECOND LINE.%
459     ^^J%
460 }%
461 }
462 \def\TestError{%
463 (test3) \let\write\OrgWrite
464 (test3) \def\plaindots{}
465 (test2) \def\plaindots{.^^J ...^^J}
466 \@PackageError\pkgname\msgtext\hlptext
467 \@TestError\@PackageError{%
468     ! Package PACKAGE Error: MESSAGE^^J%
469     (PACKAGE)~~~~~SECOND LINE.^^J%
470     ^^J%
471     See the PACKAGE package documentation for explanation.^^J%
472     Type~~H <return>~~for immediate help\plaindots
473 }{%
474     HELP^^J%
475     SECOND LINE%
476 }%
477 \@ClassError\clsname\msgtext\hlptext
478 \@TestError\@ClassError{%
479     ! Class CLASS Error: MESSAGE^^J%
480     (CLASS)~~~~~SECOND LINE.^^J%
481     ^^J%
482     See the CLASS class documentation for explanation.^^J%
483     Type~~H <return>~~for immediate help\plaindots
484 }{%
485     HELP^^J%
486     SECOND LINE%
487 }%
488 \@PackageError\pkgname\msgtext\@ehc
489 \@TestError\@PackageError{%
490     ! Package PACKAGE Error: MESSAGE^^J%
491     (PACKAGE)~~~~~SECOND LINE.^^J%
492     ^^J%
493     See the PACKAGE package documentation for explanation.^^J%
494     Type~~H <return>~~for immediate help\plaindots
495 }{%
496     Try typing~~<return>~~to proceed.^^J%
497     If that doesn't work, type~~X <return>~~to quit.%
498 }%
499 \@PackageError\pkgname\msgtext\@ehd
500 \@TestError\@PackageError{%
501     ! Package PACKAGE Error: MESSAGE^^J%
502     (PACKAGE)~~~~~SECOND LINE.^^J%
503     ^^J%
504     See the PACKAGE package documentation for explanation.^^J%
505     Type~~H <return>~~for immediate help\plaindots
506 }{%
507     You're in trouble here.~~Try typing~~<return>~~to proceed.^^J%
508     If that doesn't work, type~~X <return>~~to quit.%
509 }%
510 }
511 \def\@TestError#1#2#3{%
512     \begingroup
513     \let~\space
514     \edef\x{#2}%
515 (test3) \@onelevel@sanitize\x
516 (test3) \@onelevel@sanitize\ErrMsgage
517     \ifx\x\ErrMsgage
518     \else

```

```

519     \msg{}%
520     \msg{[\ErrMessage]}%
521     \msg{<>}%
522     \msg{[\x]}%
523     \TestFailed#1{errmessage text}%
524 \fi
525 \edef\x{\the\ErrHelpToks}%
526 \edef\y{#3}%
527 \ifx\x\y
528 \else
529     \msg{}%
530     \msg{[\the\ErrHelpToks]}%
531     \msg{<>}%
532     \msg{[\y]}%
533     \TestFailed#1{errhelp text}%
534 \fi
535 \endgroup
536 }
537 \TestInfo
538 \TestWarning
539 \TestError
540 </test2 | test3>
541 <test2>\end
542 <test3>\@@end

```

## 4 Installation

### 4.1 Download

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

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

[CTAN:macros/latex/contrib/oberdiek/infwarerr.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 T<sub>E</sub>X 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/
```

---

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

### 4.3 Package installation

**Unpacking.** The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain- $\text{\TeX}$ :

```
tex infwarerr.dtx
```

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

```
infwarerr.sty      → tex/generic/oberdiek/infwarerr.sty
infwarerr.pdf      → doc/latex/oberdiek/infwarerr.pdf
test/infwarerr-test1.tex → doc/latex/oberdiek/test/infwarerr-test1.tex
test/infwarerr-test2.tex → doc/latex/oberdiek/test/infwarerr-test2.tex
test/infwarerr-test3.tex → doc/latex/oberdiek/test/infwarerr-test3.tex
infwarerr.dtx      → source/latex/oberdiek/infwarerr.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  $\text{\TeX}$  distribution (`te $\text{\TeX}$` , `mik $\text{\TeX}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{\TeX}$`  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 infwarerr.pdf unpack_files output .
```

**Unpacking with  $\text{\LaTeX}$ .** The `.dtx` chooses its action depending on the format:

**plain- $\text{\TeX}$ :** Run `docstrip` and extract the files.

**$\text{\LaTeX}$ :** Generate the documentation.

If you insist on using  $\text{\LaTeX}$  for `docstrip` (really, `docstrip` does not need  $\text{\LaTeX}$ ), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{infwarerr.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 `pdf $\text{\LaTeX}$` :

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

## 5 History

[2007/04/26 v1.0]

- First version.

[2007/06/14 v1.1]

- Small fixes.

[2007/09/09 v1.2]

- Catcode section extended.

## 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   | A  |
|---|--|
| \# ..... 269, 331                               | \advance ..... 308, 316                  |
| \% ..... 334                                    | \aftergroup ..... 26                     |
| \@ ..... 270, 327                               |  |
| \@@end ..... 542                                | <b>B</b>                                 |
| \@ClassError ..... 132, 255, 477, 478           | \body ..... 287, 291                     |
| \@ClassInfo ... 123, 216, 224, 421, 422         |  |
| \@ClassInfoNoLine . 124, 223, 426, 427          | <b>C</b>                                 |
| \@ClassWarning 129, 236, 244, 447, 448          | \catcode ..... 3, 4, 5, 6, 7,            |
| \@ClassWarningNoLine 130, 243, 454, 455         | 8, 9, 17, 31, 32, 33, 34, 35, 36,        |
| \@PackageError ..... 131,                       | 37, 38, 39, 40, 41, 42, 43, 64,          |
| 246, 466, 467, 488, 489, 499, 500               | 65, 68, 69, 70, 71, 75, 76, 77,          |
| \@PackageInfo . 119, 206, 214, 411, 412         | 78, 82, 84, 267, 268, 269, 270,          |
| \@PackageInfoNoLine 120, 213, 416, 417          | 305, 314, 327, 328, 329, 330,            |
| \@PackageWarning 127, 226, 234, 433, 434        | 331, 332, 333, 334, 335, 336, 351        |
| \@PackageWarningNoLine ..... 128, 233, 440, 441 | \chardef ..... 156, 348, 359             |
| \@TestError ... 467, 478, 489, 500, 511         | \check ..... 100, 110, 111, 112          |
| \@check ..... 101,                              | \ClassError ..... 132                    |
| 102, 103, 105, 113, 114, 115, 116               | \ClassInfo ..... 123, 125                |
| \@ehc ..... 162, 192, 488                       | \ClassWarning ..... 129                  |
| \@ehd ..... 193, 499                            | \ClassWarningNoLine ..... 130            |
| \@firstofone ..... 278, 281                     | \clsname .. 364, 421, 426, 447, 454, 477 |
| \@gobble ..... 121, 125, 167,                   | \count@ ..... 272, 301,                  |
| 178, 214, 224, 234, 244, 275, 283               | 305, 307, 308, 312, 314, 315, 316        |
| \@onelevel@sanitize ..... 515, 516              | \countdef ..... 272                      |
| \@spaces ..... 169, 180,                        | \cscname 10, 18, 44, 60, 67, 106, 137,   |
| 191, 208, 218, 228, 238, 248, 257               | 151, 271, 274, 277, 280, 319, 341        |
| \@undefined ..... 52                            | <b>E</b>                                 |
| \@unused ..... 359                              | \empty ..... 13, 14                      |
| \@write ..... 372, 374                          | \end ..... 342, 541                      |
| \[ ..... 332                                    | \endcsname 10, 18, 44, 60, 67, 106, 137, |
| \\ ..... 328                                    | 151, 271, 274, 277, 280, 319, 341        |
| \{ ..... 267, 329                               | \endinput ..... 26, 134                  |
| \} ..... 268, 330                               | \errhelp ..... 196, 402, 406             |
| \] ..... 333                                    | \ErrHelpToks ..... 400, 402, 525, 530    |
|   | \ErrorMessage ..... 408, 516, 517, 520   |
|   | \errmessage ..... 199, 369, 401          |
|   | <b>H</b>                                 |
| \_ ..... 335                                    | \hlptext ..... 366, 466, 477             |

|   |  |   |  |
|---|--|---|--|
| <b>I</b>                                    |  | \PackageInfo . . . . . 23, 119, 121, 345  |  |
| \ifcase . . . . . 137                       |  | \PackageWarning . . . . . 127             |  |
| \ifnum . . . . . 140, 307, 315, 383         |  | \PackageWarningNoLine . . . . . 128       |  |
| \ifx . . . . . 11, 14, 18, 44,              |  | \pkgname . . . . . 363,                   |  |
| 52, 55, 106, 118, 137, 151, 271,            |  | 411, 416, 433, 440, 466, 488, 499         |  |
| 274, 277, 280, 319, 390, 517, 527           |  | \plaindots 464, 465, 472, 483, 494, 505   |  |
| \immediate 20, 46, 172, 183, 188, 349, 360  |  | \protected . . . . . 154                  |  |
| \InfWarErr@AtEnd . . . . 80, 81, 133, 264   |  | \ProvidesFile . . . . . 355               |  |
| \InfWarErr@ehc . . . . . 157, 192           |  | \ProvidesPackage . . . . . 15, 61         |  |
| \InfWarErr@ehd . . . . . 161, 193           |  |   |  |
| \InfWarErr@GenericError 186, 247, 256       |  | <b>R</b>                                  |  |
| \InfWarErr@GenericInfo 164, 207, 217        |  | \RangeCatcodeInvalid . . . . .            |  |
| \InfWarErr@GenericWarning . . . . .         |  | . . . . . 311, 323, 324, 325, 326         |  |
| . . . . . 175, 227, 237                     |  | \repeat . . . . . 286, 298, 309, 317      |  |
| \InfWarErr@help . . . . . 196, 197          |  | \RequirePackage . . . . . 356             |  |
| \InfWarErr@online . . 136, 166, 177, 194    |  | \RestoreCatcodes . . 300, 303, 304, 338   |  |
| \InfWarErr@protected 150, 164, 175, 186     |  |   |  |
| \InfWarErr@unused . . . . 156, 183, 188     |  | <b>S</b>                                  |  |
| \input . . . . . 320, 346                   |  | \space . . . . . 158, 159,                |  |
| \inputlineno 140, 148, 414, 424, 437, 451   |  | 162, 168, 169, 179, 180, 190,             |  |
| \iterate . . . . . 288, 290, 292            |  | 191, 202, 218, 238, 257, 388, 513         |  |
| <b>L</b>                                    |  | <b>T</b>                                  |  |
| \LoadCommand . . . . . 320, 337             |  | \Test . . . . . 322, 340                  |  |
| \loop . . . . . 286, 302, 313               |  | \TestError . . . . . 462, 539             |  |
| <b>M</b>                                    |  | \TestFailed . . . 379, 385, 396, 523, 533 |  |
| \makeatletter . . . . . 357                 |  | \TestInfo . . . . . 410, 537              |  |
| \MessageBreak . . . . .                     |  | \TestString . . . . . 389, 390            |  |
| . . . . . 158, 170, 181, 195, 198, 365, 366 |  | \TestWarning . . . . . 432, 538           |  |
| \msg 349, 350, 360, 392, 393, 394, 395,     |  | \TestWrite . . . . . 382, 412,            |  |
| 403, 404, 405, 406, 407, 519,               |  | 417, 422, 427, 434, 441, 448, 455         |  |
| 520, 521, 522, 529, 530, 531, 532           |  | \the 68, 69, 70, 71, 82, 148, 305, 402,   |  |
| \msgtext 365, 411, 416, 421, 426, 433,      |  | 406, 414, 424, 437, 451, 525, 530         |  |
| 440, 447, 454, 466, 477, 488, 499           |  | \TMP@EnsureCode . . . . . 79, 86, 87,     |  |
| <b>N</b>                                    |  | 88, 89, 90, 91, 92, 93, 94, 95, 96, 97    |  |
| \NeedsTeXFormat . . . . . 354               |  | <b>W</b>                                  |  |
| \newlinechar . . . . . 171, 182, 189        |  | \write . . . . . 20, 46, 172,             |  |
| \newtoks . . . . . 400                      |  | 183, 188, 347, 358, 368, 371, 463         |  |
| \next . . . . . 292, 294, 296               |  | \WriteNum . . . . . 376, 383, 385         |  |
| \number . . . . . 376                       |  | \WriteText . . . . . 377, 390, 393        |  |
| <b>O</b>                                    |  | \WriteUnused . . . . . 348,               |  |
| \on@line . . . . . 166, 172, 177, 183, 194  |  | 349, 359, 360, 434, 441, 448, 455         |  |
| \OrgErrMsg . . . . . 369, 380               |  | <b>X</b>                                  |  |
| \OrgWrite . . . . .                         |  | \x . . . . . 10, 11, 14, 19, 23,          |  |
| . . . . . 347, 349, 358, 360, 368, 375, 463 |  | 25, 45, 50, 60, 66, 74, 99, 107,          |  |
| <b>P</b>                                    |  | 118, 514, 515, 517, 522, 525, 527         |  |
| \PackageError . . . . . 131                 |  | <b>Y</b>                                  |  |
|   |  | \y . . . . . 526, 527, 532                |  |