

# The infwarerr package

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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.

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## 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 \expandafter\let\expandafter\x\csname ver@infwarerr.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 \catcode35 6 % #
19 \catcode123 1 % {
20 \catcode125 2 % }
21 \expandafter\ifx\csname PackageInfo\endcsname\relax
22 \def\x#1#2{%
23 \immediate\write-1{Package #1 Info: #2.}%
24 }%
25 \else
26 \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27 \fi
28 \x{infwarerr}{The package is already loaded}%
29 \endgroup
30 \expandafter\endinput
31 \fi
32 \endgroup

```

Package identification:

```

33 \begingroup
34 \catcode35 6 % #
35 \catcode40 12 % (
36 \catcode41 12 % )
37 \catcode44 12 % ,
38 \catcode45 12 % -
39 \catcode46 12 % .
40 \catcode47 12 % /
41 \catcode58 12 % :
42 \catcode64 11 % @

```

```

43 \catcode123 1 % {
44 \catcode125 2 % }
45 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
46   \def\x#1#2#3[#4]{\endgroup
47     \immediate\write-1{Package: #3 #4}%
48     \xdef#1{#4}%
49   }%
50 \else
51   \def\x#1#2[#3]{\endgroup
52     #2[{#3}]%
53     \ifx#1\relax
54       \xdef#1{#3}%
55     \fi
56   }%
57 \fi
58 \expandafter\x\csname ver@infwarerr.sty\endcsname
59 \ProvidesPackage{infwarerr}%
60 [2007/09/09 v1.2 Providing info/warning/message (H0)]

```

## 2.2 Catcodes

```

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

```

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

```

96 \begingroup
97 \let\x=Y%
98 \def\check#1{%
99   \@check{Generic}{#1}%

```

```

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

```

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

\@PackageInfo

```

117 \let\@PackageInfo\PackageInfo

```

\@PackageInfoNoLine

```

118 \def\@PackageInfoNoLine#1#2{%
119     \PackageInfo{#1}{#2\@gobble}%
120 }%

```

\@ClassInfo

```

121 \let\@ClassInfo\ClassInfo

```

\@ClassInfoNoLine

```

122 \def\@ClassInfoNoLine#1#2{%
123     \ClassInfo{#1}{#2\@gobble}%
124 }%

```

\@PackageWarning

```

125 \let\@PackageWarning\PackageWarning

```

\@PackageWarningNoLine

```

126 \let\@PackageWarningNoLine\PackageWarningNoLine

```

\@ClassWarning

```

127 \let\@ClassWarning\ClassWarning

```

\@ClassWarningNoLine

```

128 \let\@ClassWarningNoLine\ClassWarningNoLine

```

\@PackageError

```

129 \let\@PackageError\PackageError

```

\@ClassError

```

130 \let\@ClassError\ClassError

```

```

131 \InfWarErr@AtEnd

```

```

132 \expandafter\endinput

```

```

133 \fi

```

## 2.5 Version for plain-TeX

`\InfWarErr@online`

```

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

```

`\InfWarErr@protected`

```

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

```

`\InfWarErr@unused`

```

154 \chardef\InfWarErr@unused=16 %

```

`\InfWarErr@ehc`

```

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

```

`\InfWarErr@ehd`

```

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

```

`\InfWarErr@GenericInfo`

```

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

```

`\InfWarErr@GenericWarning`

```

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

```

```

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

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

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

\@PackageInfo

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

\@PackageInfoNoLine

211 \def\@PackageInfoNoLine#1#2{%
212   \@PackageInfo{#1}{#2@gobble}%
213 }

\@ClassInfo

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

\@ClassInfoNoLine

221 \def\@ClassInfoNoLine#1#2{%
222   \@ClassInfo{#1}{#2@gobble}%
223 }

\@PackageWarning

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

```

```

228     Package #1 Warning: #2%
229 }%
230 }

\@PackageWarningNoLine

231 \def\@PackageWarningNoLine#1#2{%
232   \@PackageWarning{#1}{#2\@gobble}%
233 }

\@ClassWarning

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

\@ClassWarningNoLine

241 \def\@ClassWarningNoLine#1#2{%
242   \@ClassWarning{#1}{#2\@gobble}%
243 }

\@PackageError

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

\@ClassError

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

262 \InfWarErr@AtEnd
263 \</package>

```

## 3 Test

### 3.1 Catcode checks for loading

```

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

```

```

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

```



```

334 \catcode13=5 %
335 \LoadCommand
336 \RestoreCatcodes
337 }
338 \Test
339 \csname @@end\endcsname
340 \end
341 \test1\

```

## 3.2 Macro tests

```

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

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

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

```

```

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

```

```

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

```

```

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

```
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  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  distribution (`te $\mathrm{T}_{\mathrm{E}}\mathrm{X}$` , `mik $\mathrm{T}_{\mathrm{E}}\mathrm{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\mathrm{T}_{\mathrm{E}}\mathrm{X}$`  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  $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ .** The `.dtx` chooses its action depending on the format:

**plain- $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ :** Run `docstrip` and extract the files.

**$\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ :** Generate the documentation.

If you insist on using  $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$  for `docstrip` (really, `docstrip` does not need  $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$ ), 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 $\mathrm{L}^{\mathrm{A}}\mathrm{T}_{\mathrm{E}}\mathrm{X}$` :

```
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.

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