

The infwarerr package

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Abstract

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

Contents

1	Documentation	1
2	Implementation	2
2.1	Reload check and package identification	2
2.2	Catcodes	3
2.3	\LaTeX detection	4
2.4	Version for \LaTeX	4
2.5	Version for plain \TeX	5
3	Test	8
3.1	Catcode checks for loading	8
3.2	Macro tests	9
4	Installation	13
4.1	Download	13
4.2	Bundle installation	13
4.3	Package installation	13
4.4	Refresh file name databases	13
4.5	Some details for the interested	14
5	History	14
	[2007/04/26 v1.0]	14
	[2007/06/14 v1.1]	14
	[2007/09/09 v1.2]	14
	[2010/04/08 v1.3]	14
6	Index	14

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 \LaTeX '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^AT_EX and plain T_EX. If L^AT_EX is detected, then the macros of this package will only be wrappers for L^AT_EX's macros. Otherwise L^AT_EX's macros will be mimicked for use with plain T_EX.

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\catcode61\catcode48\catcode32=10\relax%
3 \catcode13=5 % ^~M
4 \endlinechar=13 %
5 \catcode35=6 % #
6 \catcode39=12 % '
7 \catcode44=12 % ,
8 \catcode45=12 % -
9 \catcode46=12 % .
10 \catcode58=12 % :
11 \catcode64=11 % @
12 \catcode123=1 % {
13 \catcode125=2 % }
14 \expandafter\let\expandafter\x\csname ver@infwarerr.sty\endcsname
15 \ifx\x\relax % plain-TeX, first loading
16 \else
17 \def\empty{}%
18 \ifx\x\empty % LaTeX, first loading,
19 % variable is initialized, but \ProvidesPackage not yet seen
20 \else
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 \aftergroup\endinput
30 \fi
31 \fi
32 \endgroup%
```

Package identification:

```

33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34 \catcode13=5 % ^~M
35 \endlinechar=13 %
36 \catcode35=6 % #
37 \catcode39=12 % '
38 \catcode40=12 % (
39 \catcode41=12 % )
40 \catcode44=12 % ,
41 \catcode45=12 % -
42 \catcode46=12 % .
```

```

43 \catcode47=12 % /
44 \catcode58=12 % :
45 \catcode64=11 % @
46 \catcode91=12 % [
47 \catcode93=12 % ]
48 \catcode123=1 % {
49 \catcode125=2 % }
50 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
51 \def\x#1#2#3[#4]{\endgroup
52 \immediate\write-1{Package: #3 #4}%
53 \xdef#1{#4}%
54 }%
55 \else
56 \def\x#1#2[#3]{\endgroup
57 #2[{#3}]%
58 \ifx#1\@undefined
59 \xdef#1{#3}%
60 \fi
61 \ifx#1\relax
62 \xdef#1{#3}%
63 \fi
64 }%
65 \fi
66 \expandafter\x\csname ver@infwarerr.sty\endcsname
67 \ProvidesPackage{infwarerr}%
68 [2010/04/08 v1.3 Providing info/warning/message (H0)]%

```

2.2 Catcodes

```

69 \begingroup\catcode61\catcode48\catcode32=10\relax%
70 \catcode13=5 % ^^M
71 \endlinechar=13 %
72 \catcode123=1 % {
73 \catcode125=2 % }
74 \catcode64=11 % @
75 \def\x{\endgroup
76 \expandafter\edef\csname InfWarErr@AtEnd\endcsname{%
77 \endlinechar=\the\endlinechar\relax
78 \catcode13=\the\catcode13\relax
79 \catcode32=\the\catcode32\relax
80 \catcode35=\the\catcode35\relax
81 \catcode61=\the\catcode61\relax
82 \catcode64=\the\catcode64\relax
83 \catcode123=\the\catcode123\relax
84 \catcode125=\the\catcode125\relax
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{%
95 \edef\InfWarErr@AtEnd{%
96 \InfWarErr@AtEnd
97 \catcode#1=\the\catcode#1\relax
98 }%
99 \catcode#1=#2\relax
100 }
101 \TMP@EnsureCode{10}{12}% ^^J

```

```

102 \TMP@EnsureCode{39}{12}% '
103 \TMP@EnsureCode{40}{12}% (
104 \TMP@EnsureCode{41}{12}% )
105 \TMP@EnsureCode{44}{12}% ,
106 \TMP@EnsureCode{45}{12}% -
107 \TMP@EnsureCode{46}{12}% .
108 \TMP@EnsureCode{58}{12}% :
109 \TMP@EnsureCode{60}{12}% <
110 \TMP@EnsureCode{62}{12}% >
111 \TMP@EnsureCode{94}{7}% ^
112 \edef\InfWarErr@AtEnd{\InfWarErr@AtEnd\noexpand\endinput}

```

2.3 L^AT_EX detection

```

113 \begingroup
114   \let\x=Y%
115   \def\check#1{%
116     \@check{Generic}{#1}%
117     \@check{Package}{#1}%
118     \@check{Class}{#1}%
119   }%
120   \def\@check#1#2{%
121     \expandafter\ifx\csname #1#2\endcsname\relax
122       \let\x=N%
123     \fi
124   }%
125   \check{Info}%
126   \check{Warning}%
127   \check{Error}%
128   \@check{Package}{WarningNoLine}%
129   \@check{Class}{WarningNoLine}%
130   \@check{}{@ehc}%
131   \@check{}{@ehd}%
132 \expandafter\endgroup
133 \ifx\x Y%

```

2.4 Version for L^AT_EX

\@PackageInfo

```

134   \let\@PackageInfo\PackageInfo

```

\@PackageInfoNoLine

```

135   \def\@PackageInfoNoLine#1#2{%
136     \PackageInfo{#1}{#2@gobble}%
137   }%

```

\@ClassInfo

```

138   \let\@ClassInfo\ClassInfo

```

\@ClassInfoNoLine

```

139   \def\@ClassInfoNoLine#1#2{%
140     \ClassInfo{#1}{#2@gobble}%
141   }%

```

\@PackageWarning

```

142   \let\@PackageWarning\PackageWarning

```

\@PackageWarningNoLine

```

143   \let\@PackageWarningNoLine\PackageWarningNoLine

```

\@ClassWarning

```

144   \let\@ClassWarning\ClassWarning

```

```
\@ClassWarningNoLine
145 \let\@ClassWarningNoLine\ClassWarningNoLine
```

```
\@PackageError
146 \let\@PackageError\PackageError
```

```
\@ClassError
147 \let\@ClassError\ClassError
148 \expandafter\InfWarErr@AtEnd
149 \fi%
```

2.5 Version for plain T_EX

```
\InfWarErr@online
150 \begingroup\expandafter\endgroup
151 \ifcase\expandafter\ifx\csname inputlineno\endcsname\relax
152 0 %
153 \else
154 \ifnum\inputlineno<0 %
155 0 %
156 \else
157 1 %
158 \fi
159 \fi
160 \def\InfWarErr@online{}%
161 \else
162 \def\InfWarErr@online{ on input line \the\inputlineno}%
163 \fi
```

```
\InfWarErr@protected
164 \begingroup\expandafter\expandafter\expandafter\endgroup
165 \expandafter\ifx\csname protected\endcsname\relax
166 \def\InfWarErr@protected{}%
167 \else
168 \let\InfWarErr@protected\protected
169 \fi
```

```
\InfWarErr@unused
170 \chardef\InfWarErr@unused=16 %
```

```
\InfWarErr@ehc
171 \def\InfWarErr@ehc{%
172 Try typing \space <return> \space to proceed.\MessageBreak
173 If that doesn't work, type \space X <return> \space to quit.%
174 }
```

```
\InfWarErr@ehd
175 \def\InfWarErr@ehd{%
176 You're in trouble here. \space\@ehc
177 }
```

```
\InfWarErr@GenericInfo
178 \InfWarErr@protected\def\InfWarErr@GenericInfo#1#2{%
179 \begingroup
180 \let\on@line\InfWarErr@online
181 \long\def\@gobble##1{}%
182 \def\space{ }%
183 \def\@spaces{\space\space\space\space}%
184 \def\MessageBreak{^^J#1}%
```

```

185 \newlinechar=10 %
186 \escapechar=92 %
187 \immediate\write-1{#2\on@line.}%
188 \endgroup
189 }

```

\InfWarErr@GenericWarning

```

190 \InfWarErr@protected\def\InfWarErr@GenericWarning#1#2{%
191 \begingroup
192 \let\on@line\InfWarErr@online
193 \long\def\@gobble##1{%
194 \def\space{ }%
195 \def\@spaces{\space\space\space\space}%
196 \def\MessageBreak{^^J#1}%
197 \newlinechar=10 %
198 \escapechar=92 %
199 \immediate\write\InfWarErr@unused{^^J#2\on@line.^^J}%
200 \endgroup
201 }

```

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

```

202 \InfWarErr@protected\def\InfWarErr@GenericError#1#2#3#4{%
203 \begingroup
204 \immediate\write\InfWarErr@unused{}%
205 \def\space{ }%
206 \def\@spaces{\space\space\space\space}%
207 \let\@ehc\InfWarErr@ehc
208 \let\@ehd\InfWarErr@ehd
209 \let\on@line\InfWarErr@online
210 \def\MessageBreak{^^J}%
211 \newlinechar=10 %
212 \escapechar=92 %
213 \edef\InfWarErr@help{\noexpand\errhelp{#4}}%
214 \InfWarErr@help
215 \def\MessageBreak{^^J#1}%
216 \errmessage{%
217 #2.^^J^^J%
218 #3^^J%
219 Type \space H <return> \space for immediate help.^^J ...^^J%
220 }%
221 \endgroup
222 }

```

\@PackageInfo

```

223 \def\@PackageInfo#1#2{%
224 \InfWarErr@GenericInfo{%
225 (#1) \@spaces\@spaces\@spaces
226 }{%
227 Package #1 Info: #2%
228 }%
229 }

```

\@PackageInfoNoLine

```

230 \def\@PackageInfoNoLine#1#2{%
231 \@PackageInfo{#1}{#2\@gobble}%
232 }

```

\@ClassInfo

```

233 \def\@ClassInfo#1#2{%
234 \InfWarErr@GenericInfo{%

```

```

235     (#1) \space\space\@spaces\@spaces
236   }{%
237     Class #1 Info: #2%
238   }%
239 }

\@ClassInfoNoLine

240 \def\@ClassInfoNoLine#1#2{%
241   \@ClassInfo{#1}{#2\@gobble}%
242 }

\@PackageWarning

243 \def\@PackageWarning#1#2{%
244   \InfWarErr@GenericWarning{%
245     (#1)\@spaces\@spaces\@spaces\@spaces
246   }{%
247     Package #1 Warning: #2%
248   }%
249 }

\@PackageWarningNoLine

250 \def\@PackageWarningNoLine#1#2{%
251   \@PackageWarning{#1}{#2\@gobble}%
252 }

\@ClassWarning

253 \def\@ClassWarning#1#2{%
254   \InfWarErr@GenericWarning{%
255     (#1) \space\@spaces\@spaces\@spaces
256   }{%
257     Class #1 Warning: #2%
258   }%
259 }

\@ClassWarningNoLine

260 \def\@ClassWarningNoLine#1#2{%
261   \@ClassWarning{#1}{#2\@gobble}%
262 }

\@PackageError

263 \def\@PackageError#1#2#3{%
264   \InfWarErr@GenericError{%
265     (#1)\@spaces\@spaces\@spaces\@spaces
266   }{%
267     Package #1 Error: #2%
268   }{%
269     See the #1 package documentation for explanation.%
270   }{#3}%
271 }

\@ClassError

272 \def\@ClassError#1#2#3{%
273   \InfWarErr@GenericError{%
274     (#1) \space\@spaces\@spaces\@spaces
275   }{%
276     Class #1 Error: #2%
277   }{%
278     See the #1 class documentation for explanation.%
279   }{#3}%
280 }

281 \InfWarErr@AtEnd%
282 </package>

```

3 Test

3.1 Catcode checks for loading

```
283 <*test1>
284 \catcode'\{=1 %
285 \catcode'\}=2 %
286 \catcode'\#=6 %
287 \catcode'\@=11 %
288 \expandafter\ifx\csname count@\endcsname\relax
289 \countdef\count@=255 %
290 \fi
291 \expandafter\ifx\csname @gobble\endcsname\relax
292 \long\def\@gobble#1{%
293 \fi
294 \expandafter\ifx\csname @firstofone\endcsname\relax
295 \long\def\@firstofone#1{#1}%
296 \fi
297 \expandafter\ifx\csname loop\endcsname\relax
298 \expandafter\@firstofone
299 \else
300 \expandafter\@gobble
301 \fi
302 {%
303 \def\loop#1\repeat{%
304 \def\body{#1}%
305 \iterate
306 }%
307 \def\iterate{%
308 \body
309 \let\next\iterate
310 \else
311 \let\next\relax
312 \fi
313 \next
314 }%
315 \let\repeat=\fi
316 }%
317 \def\RestoreCatcodes{}
318 \count@=0 %
319 \loop
320 \edef\RestoreCatcodes{%
321 \RestoreCatcodes
322 \catcode\the\count@=\the\catcode\count@\relax
323 }%
324 \ifnum\count@<255 %
325 \advance\count@ 1 %
326 \repeat
327
328 \def\RangeCatcodeInvalid#1#2{%
329 \count@=#1\relax
330 \loop
331 \catcode\count@=15 %
332 \ifnum\count@<#2\relax
333 \advance\count@ 1 %
334 \repeat
335 }
336 \def\RangeCatcodeCheck#1#2#3{%
337 \count@=#1\relax
338 \loop
339 \ifnum#3=\catcode\count@
340 \else
```



```

341     \errmessage{%
342         Character \the\count@\space
343         with wrong catcode \the\catcode\count@\space
344         instead of \number#3%
345     }%
346     \fi
347     \ifnum\count@<#2\relax
348         \advance\count@ 1 %
349     \repeat
350 }
351 \def\space{ }
352 \expandafter\ifx\csname LoadCommand\endcsname\relax
353     \def\LoadCommand{\input infwarerr.sty\relax}%
354 \fi
355 \def\Test{%
356     \RangeCatcodeInvalid{0}{47}%
357     \RangeCatcodeInvalid{58}{64}%
358     \RangeCatcodeInvalid{91}{96}%
359     \RangeCatcodeInvalid{123}{255}%
360     \catcode'\@=12 %
361     \catcode'\=0 %
362     \catcode'\%=14 %
363     \LoadCommand
364     \RangeCatcodeCheck{0}{36}{15}%
365     \RangeCatcodeCheck{37}{37}{14}%
366     \RangeCatcodeCheck{38}{47}{15}%
367     \RangeCatcodeCheck{48}{57}{12}%
368     \RangeCatcodeCheck{58}{63}{15}%
369     \RangeCatcodeCheck{64}{64}{12}%
370     \RangeCatcodeCheck{65}{90}{11}%
371     \RangeCatcodeCheck{91}{91}{15}%
372     \RangeCatcodeCheck{92}{92}{0}%
373     \RangeCatcodeCheck{93}{96}{15}%
374     \RangeCatcodeCheck{97}{122}{11}%
375     \RangeCatcodeCheck{123}{255}{15}%
376     \RestoreCatcodes
377 }
378 \Test
379 \csname @@end\endcsname
380 \end
381 </test1>

```

3.2 Macro tests

```

382 <*test2>
383 \let\PackageInfo\relax
384 \input infwarerr.sty\relax
385 \let\OrgWrite\write
386 \chardef\WriteUnused=16 %
387 \def\msg#{\immediate\OrgWrite\WriteUnused}
388 \msg{File: infwarerr-test2.tex 2010/04/08 v1.3 Test file for plain-Tex}
389 \catcode64=11 %
390 </test2>

391 <*test3>
392 \NeedsTeXFormat{LaTeX2e}
393 \ProvidesFile{infwarerr-test3.tex}[2010/04/08 v1.3 Test file for LaTeX]
394 \RequirePackage{infwarerr}[2010/04/08]
395 \makeatletter
396 \let\OrgWrite\write
397 \chardef\WriteUnused=\@unused
398 \def\msg#{\immediate\OrgWrite\WriteUnused}
399 </test3>

```

```

400 /*test2 | test3}
401 \def\pkgname{PACKAGE}
402 \def\clsname{CLASS}
403 \def\msgtext{MESSAGE\MessageBreak SECOND LINE}
404 \def\hlptext{HELP\MessageBreak SECOND LINE}
405
406 \let\OrgWrite\write
407 \let\OrgErrMsg\errmessage
408
409 \def\write#1#{%
410   \@write{#1}%
411 }
412 \def\@write#1#2{%
413   \OrgWrite#1{#2}%
414   \xdef\WriteNum{\number#1}%
415   \xdef\WriteText{#2}%
416 }
417 \def\TestFailed#1#2{%
418   \OrgErrMsg{Test (\string#1) failed: #2}%
419 }
420 \def\TestWrite#1#2#3{%
421   \ifnum\WriteNum=#2\relax
422   \else
423     \TestFailed#1{write stream number: \WriteNum <> #2}%
424   \fi
425   \begingroup
426     \let~\space
427     \edef\TestString{#3}%
428     \ifx\WriteText\TestString
429     \else
430       \msg{}%
431       \msg{[\WriteText]}%
432       \msg{<>}%
433       \msg{[#3]}% hash-ok
434       \TestFailed#1{write text}%
435     \fi
436   \endgroup
437 }
438 \newtoks\ErrHelpToks
439 \def\errmessage#1{%
440   \global\ErrHelpToks=\expandafter{\the\errhelp}%
441   \msg{***** error message *****}%
442   \msg{! #1}%
443   \msg{***** help message *****}%
444   \msg{\the\errhelp}%
445   \msg{*****}%
446   \xdef\ErrorMessage{! #1}%
447 }
448 \def\TestInfo{%
449   \@PackageInfo\pkgname\msgtext
450   \TestWrite\@PackageInfo{-1}{%
451     Package PACKAGE Info: MESSAGE^^J%
452     (PACKAGE)~~~~~SECOND LINE on input line \the\inputlineno.%
453   }%
454   \@PackageInfoNoLine\pkgname\msgtext
455   \TestWrite\@PackageInfoNoLine{-1}{%
456     Package PACKAGE Info: MESSAGE^^J%
457     (PACKAGE)~~~~~SECOND LINE.%
458   }%
459   \@ClassInfo\clsname\msgtext
460   \TestWrite\@ClassInfo{-1}{%
461     Class CLASS Info: MESSAGE^^J%

```

```

462 (CLASS)~~~~~SECOND LINE on input line \the\inputlineno.%
463 }%
464 \@ClassInfoNoLine\clsname\msgtext
465 \TestWrite\@ClassInfoNoLine{-1}{%
466 Class CLASS Info: MESSAGE^^J%
467 (CLASS)~~~~~SECOND LINE.%
468 }%
469 }
470 \def\TestWarning{%
471 \@PackageWarning\pkgname\msgtext
472 \TestWrite\@PackageWarning\WriteUnused{%
473 ^^J%
474 Package PACKAGE Warning: MESSAGE^^J%
475 (PACKAGE)~~~~~SECOND LINE on input line \the\inputlineno.%
476 ^^J%
477 }%
478 \@PackageWarningNoLine\pkgname\msgtext
479 \TestWrite\@PackageWarningNoLine\WriteUnused{%
480 ^^J%
481 Package PACKAGE Warning: MESSAGE^^J%
482 (PACKAGE)~~~~~SECOND LINE.%
483 ^^J%
484 }%
485 \@ClassWarning\clsname\msgtext
486 \TestWrite\@ClassWarning\WriteUnused{%
487 ^^J%
488 Class CLASS Warning: MESSAGE^^J%
489 (CLASS)~~~~~SECOND LINE on input line \the\inputlineno.%
490 ^^J%
491 }%
492 \@ClassWarningNoLine\clsname\msgtext
493 \TestWrite\@ClassWarningNoLine\WriteUnused{%
494 ^^J%
495 Class CLASS Warning: MESSAGE^^J%
496 (CLASS)~~~~~SECOND LINE.%
497 ^^J%
498 }%
499 }
500 \def\TestError{%
501 \let\write\OrgWrite
502 \test3 \def\plaindots{}
503 \test2 \def\plaindots{^^J ...^^J}
504 \@PackageError\pkgname\msgtext\hlptext
505 \@TestError\@PackageError{%
506 ! Package PACKAGE Error: MESSAGE^^J%
507 (PACKAGE)~~~~~SECOND LINE.^^J%
508 ^^J%
509 See the PACKAGE package documentation for explanation.^^J%
510 Type^^H <return>^^for immediate help\plaindots
511 }{%
512 HELP^^J%
513 SECOND LINE%
514 }%
515 \@ClassError\clsname\msgtext\hlptext
516 \@TestError\@ClassError{%
517 ! Class CLASS Error: MESSAGE^^J%
518 (CLASS)~~~~~SECOND LINE.^^J%
519 ^^J%
520 See the CLASS class documentation for explanation.^^J%
521 Type^^H <return>^^for immediate help\plaindots
522 }{%
523 HELP^^J%

```

```

524     SECOND LINE%
525 }%
526 \@PackageError\pkgname\msgtext\@ehc
527 \@TestError\@PackageError{%
528     ! Package PACKAGE Error: MESSAGE^^J%
529     (PACKAGE)~~~~~SECOND LINE.^^J%
530     ^^J%
531     See the PACKAGE package documentation for explanation.^^J%
532     Type~~H <return>~~for immediate help\plaindots
533 }{%
534     Try typing~~<return>~~to proceed.^^J%
535     If that doesn't work, type~~X <return>~~to quit.%
536 }%
537 \@PackageError\pkgname\msgtext\@ehd
538 \@TestError\@PackageError{%
539     ! Package PACKAGE Error: MESSAGE^^J%
540     (PACKAGE)~~~~~SECOND LINE.^^J%
541     ^^J%
542     See the PACKAGE package documentation for explanation.^^J%
543     Type~~H <return>~~for immediate help\plaindots
544 }{%
545     You're in trouble here.~~Try typing~~<return>~~to proceed.^^J%
546     If that doesn't work, type~~X <return>~~to quit.%
547 }%
548 }
549 \def\@TestError#1#2#3{%
550     \begingroup
551     \let~\space
552     \edef\x{#2}%
553     (test3) \@onelevel@sanitize\x
554     (test3) \@onelevel@sanitize\ErrorMessage
555     \ifx\x\ErrorMessage
556     \else
557         \msg{}%
558         \msg{[\ErrorMessage]}%
559         \msg{<>}%
560         \msg{[\x]}%
561         \TestFailed#1{errmessage text}%
562     \fi
563     \edef\x{the\ErrHelpToks}%
564     \edef\y{#3}%
565     \ifx\x\y
566     \else
567         \msg{}%
568         \msg{[the\ErrHelpToks]}%
569         \msg{<>}%
570         \msg{[\y]}%
571         \TestFailed#1{errhelp text}%
572     \fi
573     \endgroup
574 }
575 \TestInfo
576 \TestWarning
577 \TestError
578 /test2 | test3)
579 (test2)\end
580 (test3)\@@end

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[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 \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/
```

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 infwarerr.dtx
```

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

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

¹<http://ftp.ctan.org/tex-archive/>

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 \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{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 \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.

[2010/04/08 v1.3]

- Ensure `\escapechar=92` (backslash) for infos/warnings/errors.

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; plain numbers refer to the code lines where the entry is used.

Symbols	%	362
\#	286	

\@	287, 360	\end	380, 579
\@end	580	\endcsname	14, 21, 50, 66, 76, 121, 151, 165, 288, 291, 294, 297, 352, 379
\@ClassError	147, 272, 515, 516	\endinput	29, 112
\@ClassInfo	138, 233, 241, 459, 460	\endlinechar	4, 35, 71, 77, 89
\@ClassInfoNoLine	139, 240, 464, 465	\errhelp	213, 440, 444
\@ClassWarning	144, 253, 261, 485, 486	\ErrHelpToks	438, 440, 563, 568
\@ClassWarningNoLine	145, 260, 492, 493	\ErrMsgage	446, 554, 555, 558
\@PackageError	146, 263, 504, 505, 526, 527, 537, 538	\errmessage	216, 341, 407, 439
\@PackageInfo	134, 223, 231, 449, 450	\escapechar	186, 198, 212
\@PackageInfoNoLine	135, 230, 454, 455		
\@PackageWarning	142, 243, 251, 471, 472	H	
\@PackageWarningNoLine	143, 250, 478, 479	\hlptext	404, 504, 515
\@TestError	505, 516, 527, 538, 549		
\@check	116, 117, 118, 120, 128, 129, 130, 131	I	
\@ehc	176, 207, 526	\ifcase	151
\@ehd	208, 537	\ifnum	154, 324, 332, 339, 347, 421
\@firstofone	295, 298	\ifx	15, 18, 21, 50, 58, 61, 121, 133, 151, 165, 288, 291, 294, 297, 352, 428, 555, 565
\@gobble	136, 140, 181, 193, 231, 241, 251, 261, 292, 300	\immediate	23, 52, 187, 199, 204, 387, 398
\@onelevel@sanitize	553, 554	\InfWarErr@AtEnd	95, 96, 112, 148, 281
\@spaces	183, 195, 206, 225, 235, 245, 255, 265, 274	\InfWarErr@ehc	171, 207
\@undefined	58	\InfWarErr@ehd	175, 208
\@unused	397	\InfWarErr@GenericError	202, 264, 273
\@write	410, 412	\InfWarErr@GenericInfo	178, 224, 234
\\	361	\InfWarErr@GenericWarning	190, 244, 254
\{	284	\InfWarErr@help	213, 214
\}	285	\InfWarErr@online	150, 180, 192, 209
		\InfWarErr@protected	164, 178, 190, 202
A		\InfWarErr@unused	170, 199, 204
\advance	325, 333, 348	\input	353, 384
\aftergroup	29	\inputlineno	154, 162, 452, 462, 475, 489
		\iterate	305, 307, 309
B			
\body	304, 308	L	
		\LoadCommand	353, 363
C		\loop	303, 319, 330, 338
\catcode	2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 69, 70, 72, 73, 74, 78, 79, 80, 81, 82, 83, 84, 87, 88, 90, 91, 92, 93, 97, 99, 284, 285, 286, 287, 322, 331, 339, 343, 360, 361, 362, 389	M	
\chardef	170, 386, 397	\makeatletter	395
\check	115, 125, 126, 127	\MessageBreak	172, 184, 196, 210, 215, 403, 404
\ClassError	147	\msg	387, 388, 398, 430, 431, 432, 433, 441, 442, 443, 444, 445, 557, 558, 559, 560, 567, 568, 569, 570
\ClassInfo	138, 140	\msgtext	403, 449, 454, 459, 464, 471, 478, 485, 492, 504, 515, 526, 537
\ClassWarning	144		
\ClassWarningNoLine	145	N	
\clsname	402, 459, 464, 485, 492, 515	\NeedsTeXFormat	392
\count@	289, 318, 322, 324, 325, 329, 331, 332, 333, 337, 339, 342, 343, 347, 348	\newlinechar	185, 197, 211
\countdef	289	\newtoks	438
\csname	14, 21, 50, 66, 76, 121, 151, 165, 288, 291, 294, 297, 352, 379	\next	309, 311, 313
		\number	344, 414
E			
\empty	17, 18	O	
		\on@line	180, 187, 192, 199, 209
		\OrgErrMessage	407, 418
		\OrgWrite	385, 387, 396, 398, 406, 413, 501

P			
\PackageError	146	\TestError	500, 577
\PackageInfo	26, 134, 136, 383	\TestFailed	417, 423, 434, 561, 571
\PackageWarning	142	\TestInfo	448, 575
\PackageWarningNoLine	143	\TestString	427, 428
\pkgname	401, 449, 454, 471, 478, 504, 526, 537	\TestWarning	470, 576
\plaindots	502, 503, 510, 521, 532, 543	\TestWrite	420, 450, 455, 460, 465, 472, 479, 486, 493
\protected	168	\the	77, 78, 79, 80, 81, 82, 83, 84, 97, 162, 322, 342, 343, 440, 444, 452, 462, 475, 489, 563, 568
\ProvidesFile	393	\TMP@EnsureCode	94, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111
\ProvidesPackage	19, 67		
R		W	
\RangeCatcodeCheck	336, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375	\write	23, 52, 187, 199, 204, 385, 396, 406, 409, 501
\RangeCatcodeInvalid	328, 356, 357, 358, 359	\WriteNum	414, 421, 423
\repeat	303, 315, 326, 334, 349	\WriteText	415, 428, 431
\RequirePackage	394	\WriteUnused	386, 387, 397, 398, 472, 479, 486, 493
\RestoreCatcodes	317, 320, 321, 376		
S		X	
\space	172, 173, 176, 182, 183, 194, 195, 205, 206, 219, 235, 255, 274, 342, 343, 351, 426, 551	\x	14, 15, 18, 22, 26, 28, 51, 56, 66, 75, 87, 114, 122, 133, 552, 553, 555, 560, 563, 565
T		Y	
\Test	355, 378	\y	564, 565, 570