

The infwarerr package

Heiko Oberdiek*
<heiko.oberdiek at googlemail.com>

2016/05/16 v1.4

Abstract

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

Contents

1	Documentation	2
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	14
4.5	Some details for the interested	14
5	Catalogue	14
6	History	15
	[2007/04/26 v1.0]	15
	[2007/06/14 v1.1]	15
	[2007/09/09 v1.2]	15
	[2010/04/08 v1.3]	15
	[2016/05/16 v1.4]	15
7	Index	15

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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

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 % ,
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 [2016/05/16 v1.4 Providing info/warning/error messages (HO)]%

```

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 TeX 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 2016/05/16 v1.4 Test file for plain-Tex}
389 \catcode64=11 %
390 \</test2>
391 \<test3>

```

```

392 \NeedsTeXFormat{LaTeX2e}
393 \ProvidesFile{infwarerr-test3.tex}[2016/05/16 v1.4 Test file for LaTeX]
394 \RequirePackage{infwarerr}[2016/05/16]
395 \makeatletter
396 \let\OrgWrite\write
397 \chardef\WriteUnused=\@unused
398 \def\msg#{\immediate\OrgWrite\WriteUnused}
399 \let\test3\test3

400 (*test2 j test3)
401 \def\pkgname{PACKAGE}
402 \def\clsname{CLASS}
403 \def\msgtext{MESSAGE\MessageBreak SECOND LINE}
404 \def\hlpstext{HELP\MessageBreak SECOND LINE}
405
406 \let\OrgWrite\write
407 \let\OrgErrMessage\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   \OrgErrMessage{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\ErrMsg{! #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   \def\plindots{}
503   \test2 \def\plindots{.^^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\plindots
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\ErrMessage
555 \ifx\x\ErrMessage
556 \else
557 \msg{}%
558 \msg{[\ErrMessage]}%
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 </test2j 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 T_EX 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 T_EX:

```
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.

¹<http://ctan.org/pkg/infwarerr>

4.4 Refresh file name databases

If your $\text{T}_{\text{E}}\text{X}$ distribution ($\text{t}_{\text{E}}\text{X}$, $\text{m}_{\text{ik}}\text{T}_{\text{E}}\text{X}$, ...) relies on file name databases, you must refresh these. For example, $\text{t}_{\text{E}}\text{X}$ users run `texhash` or `mktextlsr`.

4.5 Some details for the interested

Unpacking with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:

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

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

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

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

5 Catalogue

The following XML file can be used as source for the [\$\text{T}_{\text{E}}\text{X}\$ 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 `infwarerr.xml`.

```
581 (*catalogue)
582 <?xml version='1.0' encoding='us-ascii'?>
583 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
584 <entry datestamp='$Date$' modifier='$Author$' id='infwarerr'>
585   <name>infwarerr</name>
586   <caption>Complete set of information/warning/error messages.</caption>
587   <authorref id='auth:oberdiek'>
588     <copyright owner='Heiko Oberdiek' year='2007,2010'>
589       <license type='lppl1.3'>
590         <version number='1.4'>
591           <description>
592             This package provides a complete set of macros for information,
593             warning and error messages. Under  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ , the commands are
594             wrappers for the corresponding  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  commands; under Plain  $\text{T}_{\text{E}}\text{X}$ 
595             they are also available as complete implementations.
596           <p/>
597           The package is part of the <xref refid='oberdiek'>oberdiek</xref>
598           bundle.
599         </description>
600       <documentation details='Package documentation'
601         href='ctan:/macros/latex/contrib/oberdiek/infwarerr.pdf'>
602       <ctan file='true' path='/macros/latex/contrib/oberdiek/infwarerr.dtx'>
```

```

603 <miktex location='oberdiek' />
604 <texlive location='oberdiek' />
605 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
606 </entry>
607 </catalogue>

```

6 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.

[2016/05/16 v1.4]

- Documentation updates.

7 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		
<code>\#</code>	286	<code>\@onelevel@sanitiz</code> 553, 554
<code>\%</code>	362	<code>\@spaces</code> 183, 195,
<code>\@</code>	287, 360	206, 225, 235, 245, 255, 265, 274
<code>\@@end</code>	580	<code>\@undefined</code> 58
<code>\@ClassError</code>	147, 272, 515, 516	<code>\@unused</code> 397
<code>\@ClassInfo</code>	138, 233, 241, 459, 460	<code>\@write</code> 410, 412
<code>\@ClassInfoNoLine</code> .	139, 240, 464, 465	<code>\</code> 361
<code>\@ClassWarning</code> <u>144</u> , 253, 261, 485, 486		<code>\{</code> 284
<code>\@ClassWarningNoLine</code> <u>145</u> , 260, 492, 493		<code>\}</code> 285
<code>\@PackageError</code>	146,	
263, 504, 505, 526, 527, 537, 538		A
<code>\@PackageInfo</code> ..	134, 223, 231, 449, 450	<code>\advance</code> 325, 333, 348
<code>\@PackageInfoNoLine</code> <u>135</u> , 230, 454, 455		<code>\aftergroup</code> 29
<code>\@PackageWarning</code> <u>142</u> , <u>243</u> , 251, 471, 472		B
<code>\@PackageWarningNoLine</code>		<code>\body</code> 304, 308
..... <u>143</u> , 250, 478, 479		C
<code>\@TestError</code>	505, 516, 527, 538, 549	<code>\catcode</code> ..
<code>\@check</code>	116,	2, 3, 5, 6, 7, 8, 9, 10, 11,
117, 118, 120, 128, 129, 130, 131		12, 13, 33, 34, 36, 37, 38, 39, 40,
<code>\@ehc</code>	176, 207, 526	41, 42, 43, 44, 45, 46, 47, 48, 49,
<code>\@ehd</code>	208, 537	69, 70, 72, 73, 74, 78, 79, 80, 81,
<code>\@firstofone</code>	295, 298	82, 83, 84, 87, 88, 90, 91, 92, 93,
<code>\@gobble</code>	136, 140, 181,	97, 99, 284, 285, 286, 287, 322,
193, 231, 241, 251, 261, 292, 300		331, 339, 343, 360, 361, 362, 389
		<code>\chardef</code> 170, 386, 397

\check	115, 125, 126, 127	\msgtext	403, 449, 454, 459, 464, 471, 478, 485, 492, 504, 515, 526, 537
\ClassError	147	N	
\ClassInfo	138, 140	\NeedsTeXFormat	392
\ClassWarning	144	\newlinechar	185, 197, 211
\ClassWarningNoLine	145	\newtoks	438
\clsname	402, 459, 464, 485, 492, 515	\next	309, 311, 313
\count@	289, 318, 322, 324, 325, 329, 331, 332, 333, 337, 339, 342, 343, 347, 348	\number	344, 414
\countdef	289	O	
\csname	14, 21, 50, 66, 76, 121, 151, 165, 288, 291, 294, 297, 352, 379	\on@line	180, 187, 192, 199, 209
E		\OrgErrMsg	407, 418
\empty	17, 18	\OrgWrite	385, 387, 396, 398, 406, 413, 501
\end	380, 579	P	
\endcsname	14, 21, 50, 66, 76, 121, 151, 165, 288, 291, 294, 297, 352, 379	\PackageError	146
\endinput	29, 112	\PackageInfo	26, 134, 136, 383
\endlinechar	4, 35, 71, 77, 89	\PackageWarning	142
\errhelp	213, 440, 444	\PackageWarningNoLine	143
\ErrHelpToks	438, 440, 563, 568	\pkgname	401, 449, 454, 471, 478, 504, 526, 537
\ErrMsg	446, 554, 555, 558	\plindots	502, 503, 510, 521, 532, 543
\errmessage	216, 341, 407, 439	\protected	168
\escapechar	186, 198, 212	\ProvidesFile	393
H		\ProvidesPackage	19, 67
\hlptext	404, 504, 515	R	
I		\RangeCatcodeCheck	336, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375
\ifcase	151	\RangeCatcodeInvalid	328, 356, 357, 358, 359
\ifnum	154, 324, 332, 339, 347, 421	\repeat	303, 315, 326, 334, 349
\ifx	15, 18, 21, 50, 58, 61, 121, 133, 151, 165, 288, 291, 294, 297, 352, 428, 555, 565	\RequirePackage	394
\immediate	23, 52, 187, 199, 204, 387, 398	\RestoreCatcodes	317, 320, 321, 376
\InfWarErr@AtEnd	95, 96, 112, 148, 281	S	
\InfWarErr@ehc	171, 207	\space	172, 173, 176, 182, 183, 194, 195, 205, 206, 219, 235, 255, 274, 342, 343, 351, 426, 551
\InfWarErr@ehd	175, 208	T	
\InfWarErr@GenericError	202, 264, 273	\Test	355, 378
\InfWarErr@GenericInfo	178, 224, 234	\TestError	500, 577
\InfWarErr@GenericWarning	190, 244, 254	\TestFailed	417, 423, 434, 561, 571
\InfWarErr@help	213, 214	\TestInfo	448, 575
\InfWarErr@online	150, 180, 192, 209	\TestString	427, 428
\InfWarErr@protected	164, 178, 190, 202	\TestWarning	470, 576
\InfWarErr@unused	170, 199, 204	\TestWrite	420, 450, 455, 460, 465, 472, 479, 486, 493
\input	353, 384	\the	77, 78, 79, 80, 81, 82, 83, 84, 97, 162, 322, 342, 343, 440, 444, 452, 462, 475, 489, 563, 568
\inputlineno	154, 162, 452, 462, 475, 489	\TMP@EnsureCode	94, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111
\iterate	305, 307, 309	W	
L		\write	23, 52, 187, 199, 204, 385, 396, 406, 409, 501
\LoadCommand	353, 363	\WriteNum	414, 421, 423
\loop	303, 319, 330, 338		
M			
\makeatletter	395		
\MessageBreak	172, 184, 196, 210, 215, 403, 404		
\msg	387, 388, 398, 430, 431, 432, 433, 441, 442, 443, 444, 445, 557, 558, 559, 560, 567, 568, 569, 570		

<code>\WriteText</code>	415, 428, 431	28, 51, 56, 66, 75, 87, 114, 122,
<code>\WriteUnused</code>	386,	133, 552, 553, 555, 560, 563, 565
	387, 397, 398, 472, 479, 486, 493	
	X	Y
<code>\x</code>	14, 15, 18, 22, 26,	<code>\y</code>
		564, 565, 570