

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^AT_EX'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
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 \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 \endgroup
27 \expandafter\endinput
28 \fi
29 \endgroup
```

Package identification:

```

30 \begingroup
31 \catcode40 12 % (
32 \catcode41 12 % )
33 \catcode44 12 % ,
34 \catcode45 12 % -
35 \catcode46 12 % .
36 \catcode47 12 % /
37 \catcode58 12 % :
38 \catcode64 11 % @
39 \expandafter\ifx\csname ProvidesPackage\endcsname\relax
40 \def\x#1#2#3[#4]{\endgroup
41 \immediate\write-1{Package: #3 #4}%
42 \xdef#1{#4}%
```

```

43   }%
44   \else
45     \def\x#1#2[#3]{\endgroup
46       #2[#3]}%
47     \ifx#1\relax
48       \xdef#1[#3]%
49     \fi
50   }%
51   \fi
52   \expandafter\x\csname ver@infwarerr.sty\endcsname
53   \ProvidesPackage{infwarerr}%
54   [2007/09/09 v1.2 Providing info/warning/message (HO)]

```

2.2 Catcodes

```

55   \expandafter\edef\csname InfWarErr@AtEnd\endcsname{%
56     \catcode64 \the\catcode64\relax
57   }
58   \catcode64 11 % @
59   \def\TMP@EnsureCode#1#2{%
60     \edef\InfWarErr@AtEnd{%
61       \InfWarErr@AtEnd
62       \catcode#1 \the\catcode#1\relax
63     }%
64     \catcode#1 #2\relax
65   }
66   \TMP@EnsureCode{10}{12}% ^^J
67   \TMP@EnsureCode{39}{12}% '
68   \TMP@EnsureCode{40}{12}% (
69   \TMP@EnsureCode{41}{12}% )
70   \TMP@EnsureCode{44}{12}% ,
71   \TMP@EnsureCode{45}{12}% -
72   \TMP@EnsureCode{46}{12}% .
73   \TMP@EnsureCode{58}{12}% :
74   \TMP@EnsureCode{60}{12}% <
75   \TMP@EnsureCode{61}{12}% =
76   \TMP@EnsureCode{62}{12}% >
77   \TMP@EnsureCode{94}{7}% ^

```

2.3 L^AT_EX detection

```

78   \begingroup
79   \let\x=Y%
80   \def\check#1{%
81     \@check{Generic}{#1}%
82     \@check{Package}{#1}%
83     \@check{Class}{#1}%
84   }%
85   \def\@check#1#2{%
86     \expandafter\ifx\csname #1#2\endcsname\relax
87       \let\x=N%
88     \fi
89   }%
90   \check{Info}%
91   \check{Warning}%
92   \check{Error}%
93   \@check{Package}{WarningNoLine}%
94   \@check{Class}{WarningNoLine}%
95   \@check{}{@ehc}%
96   \@check{}{@ehd}%
97   \expandafter\endgroup
98   \ifx\x Y%

```

2.4 Version for L^AT_EX

```

\@PackageInfo
99 \let\@PackageInfo\PackageInfo

\@PackageInfoNoLine
100 \def\@PackageInfoNoLine#1#2{%
101     \PackageInfo{#1}{#2\@gobble}%
102 }%

\@ClassInfo
103 \let\@ClassInfo\ClassInfo

\@ClassInfoNoLine
104 \def\@ClassInfoNoLine#1#2{%
105     \ClassInfo{#1}{#2\@gobble}%
106 }%

\@PackageWarning
107 \let\@PackageWarning\PackageWarning

\@PackageWarningNoLine
108 \let\@PackageWarningNoLine\PackageWarningNoLine

\@ClassWarning
109 \let\@ClassWarning\ClassWarning

\@ClassWarningNoLine
110 \let\@ClassWarningNoLine\ClassWarningNoLine

\@PackageError
111 \let\@PackageError\PackageError

\@ClassError
112 \let\@ClassError\ClassError

113 \InfWarErr@AtEnd
114 \expandafter\endinput
115 \fi

```

2.5 Version for plain-T_EX

```

\InfWarErr@online
116 \begingroup\expandafter\endgroup
117 \ifcase\expandafter\ifx\csname inputlineno\endcsname\relax
118     0 %
119 \else
120     \ifnum\inputlineno<0 %
121         0 %
122     \else
123         1 %
124     \fi
125 \fi
126 \def\InfWarErr@online{}%
127 \else
128     \def\InfWarErr@online{ on input line \the\inputlineno}%
129 \fi

```

```

\InfWarErr@protected
130 \begingroup\expandafter\expandafter\expandafter\endgroup
131 \expandafter\ifx\csname protected\endcsname\relax
132   \def\InfWarErr@protected{}%
133 \else
134   \let\InfWarErr@protected\protected
135 \fi

\InfWarErr@unused
136 \chardef\InfWarErr@unused=16 %

\InfWarErr@ehc
137 \def\InfWarErr@ehc{%
138   Try typing \space <return> \space to proceed.\MessageBreak
139   If that doesn't work, type \space X <return> \space to quit.%
140 }

\InfWarErr@ehd
141 \def\InfWarErr@ehd{%
142   You're in trouble here. \space\@ehc
143 }

\InfWarErr@GenericInfo
144 \InfWarErr@protected\def\InfWarErr@GenericInfo#1#2{%
145   \begingroup
146     \let\on@line\InfWarErr@online
147     \long\def\@gobble##1{%
148       \def\space{ }%
149       \def\@spaces{\space\space\space\space}%
150       \def\MessageBreak{^^J#1}%
151       \newlinechar=10 %
152       \immediate\write-1{#2\on@line.}%
153     \endgroup
154 }

\InfWarErr@GenericWarning
155 \InfWarErr@protected\def\InfWarErr@GenericWarning#1#2{%
156   \begingroup
157     \let\on@line\InfWarErr@online
158     \long\def\@gobble##1{%
159       \def\space{ }%
160       \def\@spaces{\space\space\space\space}%
161       \def\MessageBreak{^^J#1}%
162       \newlinechar=10 %
163       \immediate\write\InfWarErr@unused{^^J#2\on@line.^^J}%
164     \endgroup
165 }

\InfWarErr@GenericError Old TeX versions below 3.141 where ^^J is not working as newline in error message
and help texts are not supported.
166 \InfWarErr@protected\def\InfWarErr@GenericError#1#2#3#4{%
167   \begingroup
168     \immediate\write\InfWarErr@unused{}%
169     \newlinechar=10 %
170     \def\space{ }%
171     \def\@spaces{\space\space\space\space}%
172     \let\@ehc\InfWarErr@ehc
173     \let\@ehd\InfWarErr@ehd
174     \let\on@line\InfWarErr@online
175     \def\MessageBreak{^^J}%
176     \edef\InfWarErr@help{\noexpand\errhelp{#4}}%

```

```

177 \InfWarErr@help
178 \def\MessageBreak{^^J#1}%
179 \errmessage{%
180   #2.^^J^^J%
181   #3^^J%
182   Type \space H <return> \space for immediate help.^^J ...^^J%
183 }%
184 \endgroup
185 }

```

\@PackageInfo

```

186 \def\@PackageInfo#1#2{%
187   \InfWarErr@GenericInfo{%
188     (#1) \@spaces\@spaces\@spaces
189   }{%
190     Package #1 Info: #2%
191   }%
192 }

```

\@PackageInfoNoLine

```

193 \def\@PackageInfoNoLine#1#2{%
194   \@PackageInfo{#1}{#2\@gobble}%
195 }

```

\@ClassInfo

```

196 \def\@ClassInfo#1#2{%
197   \InfWarErr@GenericInfo{%
198     (#1) \space\space\@spaces\@spaces
199   }{%
200     Class #1 Info: #2%
201   }%
202 }

```

\@ClassInfoNoLine

```

203 \def\@ClassInfoNoLine#1#2{%
204   \@ClassInfo{#1}{#2\@gobble}%
205 }

```

\@PackageWarning

```

206 \def\@PackageWarning#1#2{%
207   \InfWarErr@GenericWarning{%
208     (#1)\@spaces\@spaces\@spaces\@spaces
209   }{%
210     Package #1 Warning: #2%
211   }%
212 }

```

\@PackageWarningNoLine

```

213 \def\@PackageWarningNoLine#1#2{%
214   \@PackageWarning{#1}{#2\@gobble}%
215 }

```

\@ClassWarning

```

216 \def\@ClassWarning#1#2{%
217   \InfWarErr@GenericWarning{%
218     (#1) \space\@spaces\@spaces\@spaces
219   }{%
220     Class #1 Warning: #2%
221   }%
222 }

```

\@ClassWarningNoLine

```
223 \def\@ClassWarningNoLine#1#2{%
224   \@ClassWarning{#1}{#2@gobble}%
225 }
```

\@PackageError

```
226 \def\@PackageError#1#2#3{%
227   \InfWarErr@GenericError{%
228     (#1)\@spaces\@spaces\@spaces\@spaces
229   }{%
230     Package #1 Error: #2%
231   }{%
232     See the #1 package documentation for explanation.%
233   }{#3}%
234 }
```

\@ClassError

```
235 \def\@ClassError#1#2#3{%
236   \InfWarErr@GenericError{%
237     (#1) \space\@spaces\@spaces\@spaces
238   }{%
239     Class #1 Error: #2%
240   }{%
241     See the #1 class documentation for explanation.%
242   }{#3}%
243 }

244 \InfWarErr@AtEnd
245 \</package>
```

3 Test

3.1 Catcode checks for loading

```
246 \<test1>

247 \catcode'\@=11 %
248 \def\RestoreCatcodes{}
249 \count@=0 %
250 \loop
251   \edef\RestoreCatcodes{%
252     \RestoreCatcodes
253     \catcode\the\count@=\the\catcode\count@\relax
254   }%
255 \ifnum\count@<255 %
256   \advance\count@\@ne
257 \repeat
258
259 \def\RangeCatcodeInvalid#1#2{%
260   \count@=#1\relax
261   \loop
262     \catcode\count@=15 %
263     \ifnum\count@<#2\relax
264       \advance\count@\@ne
265     \repeat
266 }
267 \def\Test{%
268   \RangeCatcodeInvalid{0}{47}%
269   \RangeCatcodeInvalid{58}{64}%
270   \RangeCatcodeInvalid{91}{96}%
271   \RangeCatcodeInvalid{123}{255}%
272   \catcode'\@=12 %
```

```

273 \catcode'\=0 %
274 \catcode'\{=1 %
275 \catcode'\}=2 %
276 \catcode'\#=6 %
277 \catcode'\[=12 %
278 \catcode'\]=12 %
279 \catcode'\%=14 %
280 \catcode'\ =10 %
281 \catcode13=5 %
282 \input infwarerr.sty\relax
283 \RestoreCatcodes
284 }
285 \Test
286 \csname @@end\endcsname
287 \end
288 </test1>

```

3.2 Macro tests

```

289 <*test2>
290 \let\PackageInfo\relax
291 \input infwarerr.sty\relax
292 \let\OrgWrite\write
293 \chardef\WriteUnused=16 %
294 \def\msg#{\immediate\OrgWrite\WriteUnused}
295 \msg{File: infwarerr-test2.tex 2007/09/09 v1.2 Test file for plain-Tex}
296 \catcode64=11 %
297 </test2>

298 <*test3>
299 \NeedsTeXFormat{LaTeX2e}
300 \ProvidesFile{infwarerr-test3.tex}[2007/09/09 v1.2 Test file for LaTeX]
301 \RequirePackage{infwarerr}[2007/09/09]
302 \makeatletter
303 \let\OrgWrite\write
304 \chardef\WriteUnused=\@unused
305 \def\msg#{\immediate\OrgWrite\WriteUnused}
306 </test3>

307 <*test2 | test3>
308 \def\pkgname{PACKAGE}
309 \def\clsname{CLASS}
310 \def\msgtext{MESSAGE\MessageBreak SECOND LINE}
311 \def\hlptext{HELP\MessageBreak SECOND LINE}
312
313 \let\OrgWrite\write
314 \let\OrgErrMessage\errmessage
315
316 \def\write#1#{%
317   \@write{#1}%
318 }
319 \def\@write#1#2{%
320   \OrgWrite#1{#2}%
321   \xdef\WriteNum{\number#1}%
322   \xdef\WriteText{#2}%
323 }
324 \def\TestFailed#1#2{%
325   \OrgErrMessage{Test (\string#1) failed: #2}%
326 }
327 \def\TestWrite#1#2#3{%
328   \ifnum\WriteNum=#2\relax
329   \else
330     \TestFailed#1{write stream number: \WriteNum <> #2}%
331   \fi

```



```

332 \begingroup
333   \let~\space
334   \edef\TestString{#3}%
335   \ifx\WriteText\TestString
336   \else
337     \msg{}%
338     \msg{[\WriteText]}%
339     \msg{<>}%
340     \msg{[#3]}% hash-ok
341     \TestFailed#1{write text}%
342   \fi
343 \endgroup
344 }
345 \newtoks\ErrHelpToks
346 \def\errmessage#1{%
347   \global\ErrHelpToks=\expandafter{\the\errhelp}%
348   \msg{***** error message *****}%
349   \msg{! #1}%
350   \msg{***** help message *****}%
351   \msg{\the\errhelp}%
352   \msg{*****}%
353   \xdef\ErrorMessage{! #1}%
354 }
355 \def\TestInfo{%
356   \@PackageInfo\pkgname\msgtext
357   \TestWrite\@PackageInfo{-1}{%
358     Package PACKAGE Info: MESSAGE^^J%
359     (PACKAGE)~~~~~SECOND LINE on input line \the\inputlineno.%
360   }%
361   \@PackageInfoNoLine\pkgname\msgtext
362   \TestWrite\@PackageInfoNoLine{-1}{%
363     Package PACKAGE Info: MESSAGE^^J%
364     (PACKAGE)~~~~~SECOND LINE.%
365   }%
366   \@ClassInfo\clsname\msgtext
367   \TestWrite\@ClassInfo{-1}{%
368     Class CLASS Info: MESSAGE^^J%
369     (CLASS)~~~~~SECOND LINE on input line \the\inputlineno.%
370   }%
371   \@ClassInfoNoLine\clsname\msgtext
372   \TestWrite\@ClassInfoNoLine{-1}{%
373     Class CLASS Info: MESSAGE^^J%
374     (CLASS)~~~~~SECOND LINE.%
375   }%
376 }
377 \def\TestWarning{%
378   \@PackageWarning\pkgname\msgtext
379   \TestWrite\@PackageWarning\WriteUnused{%
380     ^^J%
381     Package PACKAGE Warning: MESSAGE^^J%
382     (PACKAGE)~~~~~SECOND LINE on input line \the\inputlineno.%
383     ^^J%
384   }%
385   \@PackageWarningNoLine\pkgname\msgtext
386   \TestWrite\@PackageWarningNoLine\WriteUnused{%
387     ^^J%
388     Package PACKAGE Warning: MESSAGE^^J%
389     (PACKAGE)~~~~~SECOND LINE.%
390     ^^J%
391   }%
392   \@ClassWarning\clsname\msgtext
393   \TestWrite\@ClassWarning\WriteUnused{%

```

```

394    ^^J%
395    Class CLASS Warning: MESSAGE^^J%
396    (CLASS)~~~~~SECOND LINE on input line \the\inputlineno.%
397    ^^J%
398  }%
399  \@ClassWarningNoLine\clsname\msgtext
400  \TestWrite\@ClassWarningNoLine\WriteUnused{%
401    ^^J%
402    Class CLASS Warning: MESSAGE^^J%
403    (CLASS)~~~~~SECOND LINE.%
404    ^^J%
405  }%
406 }
407 \def\TestError{%
408 (test3) \let\write\OrgWrite
409 (test3) \def\plaindots{}
410 (test2) \def\plaindots{.^^J ...^^J}
411 \@PackageError\pkgname\msgtext\hlptext
412 \@TestError\@PackageError{%
413   ! Package PACKAGE Error: MESSAGE^^J%
414   (PACKAGE)~~~~~SECOND LINE.^^J%
415   ^^J%
416   See the PACKAGE package documentation for explanation.^^J%
417   Type~~H <return>~~for immediate help\plaindots
418 }{%
419   HELP^^J%
420   SECOND LINE%
421 }%
422 \@ClassError\clsname\msgtext\hlptext
423 \@TestError\@ClassError{%
424   ! Class CLASS Error: MESSAGE^^J%
425   (CLASS)~~~~~SECOND LINE.^^J%
426   ^^J%
427   See the CLASS class documentation for explanation.^^J%
428   Type~~H <return>~~for immediate help\plaindots
429 }{%
430   HELP^^J%
431   SECOND LINE%
432 }%
433 \@PackageError\pkgname\msgtext\@ehc
434 \@TestError\@PackageError{%
435   ! Package PACKAGE Error: MESSAGE^^J%
436   (PACKAGE)~~~~~SECOND LINE.^^J%
437   ^^J%
438   See the PACKAGE package documentation for explanation.^^J%
439   Type~~H <return>~~for immediate help\plaindots
440 }{%
441   Try typing~~<return>~~to proceed.^^J%
442   If that doesn't work, type~~X <return>~~to quit.%
443 }%
444 \@PackageError\pkgname\msgtext\@ehd
445 \@TestError\@PackageError{%
446   ! Package PACKAGE Error: MESSAGE^^J%
447   (PACKAGE)~~~~~SECOND LINE.^^J%
448   ^^J%
449   See the PACKAGE package documentation for explanation.^^J%
450   Type~~H <return>~~for immediate help\plaindots
451 }{%
452   You're in trouble here.~~Try typing~~<return>~~to proceed.^^J%
453   If that doesn't work, type~~X <return>~~to quit.%
454 }%
455 }

```

```

456 \def\@TestError#1#2#3{%
457   \begingroup
458     \let~\space
459     \edef\x{#2}%
460     \test3) \@onelevel@sanitize\x
461     \test3) \@onelevel@sanitize\ErrorMessage
462     \ifx\x\ErrorMessage
463     \else
464       \msg{}%
465       \msg{[\ErrorMessage]}%
466       \msg{<>}%
467       \msg{[\x]}%
468       \TestFailed#1{errmessage text}%
469     \fi
470     \edef\x{\the\ErrHelpToks}%
471     \edef\y{#3}%
472     \ifx\x\y
473     \else
474       \msg{}%
475       \msg{[\the\ErrHelpToks]}%
476       \msg{<>}%
477       \msg{[\y]}%
478       \TestFailed#1{errhelp text}%
479     \fi
480   \endgroup
481 }
482 \TestInfo
483 \TestWarning
484 \TestError
485 </test2 | test3>
486 <test2>\end
487 <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:macros/latex/contrib/oberdiek/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
```

¹<http://ftp.ctan.org/tex-archive/>

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):

```
infwarerr.sty      → tex/generic/oberdiek/infwarerr.sty
infwarerr.pdf      → doc/latex/oberdiek/infwarerr.pdf
infwarerr-test1.tex → doc/latex/oberdiek/infwarerr-test1.tex
infwarerr-test2.tex → doc/latex/oberdiek/infwarerr-test2.tex
infwarerr-test3.tex → doc/latex/oberdiek/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 \TeX distribution (te \TeX , mik \TeX , ...) relies on file name databases, you must refresh these. For example, te \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 \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 pdfL^AT_EX:

```
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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