

The `texdepends` package^{*}

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Abstract

This package allows L^AT_EX to automatically generate dependencies while compiling documents.

Contents

1	Introduction	2
2	Implementation of <code>texdepends</code>	2
2.1	Options	2
2.2	Tools	3
2.2.1	Debug/info wrapper	3
2.2.2	Writing dependencies	4
2.2.3	Diverting a macro	6
2.2.4	Initialisation	7
2.2.5	Warning upon missing figures	8
2.3	Diversion of L ^A T _E X macros	8
2.3.1	Class and package loading	8
2.3.2	Tracking input files	9
2.3.3	Tracking output files	10
2.3.4	Tracking bibliography files	10
2.3.5	Glossary and index files	11
2.4	Diversion of package's macros	11
2.4.1	Package graphics	11
2.4.2	Package figlatex	12
2.4.3	Package doc	15
2.4.4	Package index	15
2.4.5	Package makeidx	15
2.4.6	Package nomencl	15
2.4.7	Package bibtopic	16
2.4.8	Package comment	16

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1 Introduction

This package automatically generates dependancies on L^AT_EX files and packages, figures, bibliography files, glossary and index files. The generated file is then used by a Makefile to handle dependancies.

2 Implementation of `texdepends`

2.1 Options

```
1 <*package>
texdepends is easier to write with the ifthen package.
2 \RequirePackage{ifthen}

debug The debug option (enable debug messages, useful for debugging)
3 \newboolean{TD@debug}
4 \newcommand{\TD@option@debug}[1][true]{%
5   \%PackageWarningNoLine{texdepends}{Setting debug to #1}%
6   \setboolean{TD@debug}{#1}%
7 }%

extension The extension option. We can use it to let texdepends know whether we compile
a dvi or a pdf file.
8 \def\TD@option@extension[#1]{%
9   \%PackageWarningNoLine{texdepends}{Using extention #1}%
10  \def\TD@extention[#1]%
11 }%
```

Managing options with specific code. Using the `keyval` package could be a solution, but this would add one more dependency.

```
12 \def\TD@option@split#1=#2=#3\relax{%
13   \def\TD@option@name{#1}%
14   \ifx\TD@option@name\empty\else
15     \expandafter\let\expandafter\TD@option@cmd
16       \csname TD@option@\TD@option@name\endcsname
17     \%PackageWarningNoLine{texdepends}{1: '#1', 2: '#2', 3: '#3'}%
18     \ifx\TD@option@cmd\relax
19       \@unknonoptionerror%
20     \else
21       \ifx\@empty#3\empty
22         \TD@option@cmd\relax%
23       \else
24         \def\TD@option@value{#2}%
25         \TD@option@cmd[\TD@option@value]%
26       \fi
27     \fi
28   \fi
29 }%
```

All option are managed by the same code.

```
30 \DeclareOption*{%
31   \%PackageWarningNoLine{texdepends}{Option \CurrentOption}%
32   \expandafter\TD@option@split\CurrentOption==\relax%
33 }%
34 %
35 So lets process options
36 \ProcessOptions
37 If the extension option is not used, we try to find ourselves the good extension
38 based on TeX engine or mode.
39 \ifthenelse{\isundefined{\TD@extention}}{%
40   \%PackageWarningNoLine{texdepends}{No extension given: detecting it}%
41   \RequirePackage{ifxetex, ifpdf}%
42   \ifxetex%
43     \%PackageWarningNoLine{texdepends}{Detected XeTeX: using .pdf}%
44     \def\TD@extention{.pdf}%
45   \else\ifpdf%
46     \%PackageWarningNoLine{texdepends}{Detected PDF mode: using .pdf}%
47     \def\TD@extention{.pdf}%
48   \else%
49     \%PackageWarningNoLine{texdepends}{Detected DVI mode. Using .dvi}%
50     \def\TD@extention{.dvi}%
51   \fi\fi%
52 }{}%
```

2.2 Tools

Some macros to help development

2.2.1 Debug/info wrapper

\TD@warning	To write a warning
	49 \%newcommand{\TD@warning}[1]{% 50 \%PackageWarningNoLine{texdepends}{#1}% 51 }%
\TD@warningLine	To write a warning with line info
	52 \%newcommand{\TD@warningLine}[1]{% 53 \%PackageWarning{texdepends}{#1}% 54 }%
\TD@info	To write an info (as a warning if the debug option is set)
	55 \%newcommand{\TD@info}[1]{% 56 \ifthenelse{\boolean{TD@debug}}{% 57 \%PackageWarningNoLine{texdepends}{#1}% 58 }{% 59 \%PackageInfo{texdepends}{#1}% 60 }% 61 }%

\TD@debug To write a message if the debug option is set

```

62 \newcommand{\TD@debug}[1]{%
63   \ifthenelse{\boolean{TD@debug}}{%
64     \PackageWarningNoLine{texdepends}{#1}%
65   }{%
66   }%
67 }%

```

2.2.2 Writing dependencies

We open the file where we will write dependencies and other infos.

```

68 \newwrite\TD@write
69 \TD@info{Writing info in '\jobname\TD@extention.mk'}
70 \immediate\openout\TD@write\jobname\TD@extention.mk%

```

And we define a few macro to write in this file

\TD@print We write something in the file

```

71 \def\TD@print#1{%
72   \immediate\write\TD@write{#1}%
73 }%

```

\TD@printClass We need a class

```

74 \def\TD@printClass#1{%
75   \TD@print{\TD_\jobname\TD@extention _INPUTS\space += #1.cls}%
76 }%

```

\TD@printPackage We need a package

```

77 \def\TD@printPackage#1{%
78   \TD@print{\TD_\jobname\TD@extention _INPUTS\space += #1.sty}%
79 }%

```

\TD@printInput We need a (L^AT_EX) file

```

80 \def\TD@printInput#1{%
81   \TD@print{\TD_\jobname\TD@extention _INPUTS\space += #1}%
82 }%

```

\TD@printFig We want to ignore a dependency

```

83 \def\TD@printNoDependsFile#1{%
84   \TD@print{\TD_\jobname\TD@extention _DEPENDS_EXCLUDE\space += #1}%
85 }%

```

\TD@printFig We need an XFig file

```

86 \def\TD@printFig#1{%
87   \TD@print{\TD_\jobname\TD@extention _FIGURES\space += #1}%
88 }%

```

```

\TD@printSubfig Web need a subfig file (see figlatex.dtx)
 89 \def\TD@printSubfig#1{%
 90   \TD@print{TD_\jobname\TD@extention _SUBFIGS\space += #1}%
 91 }%

\TD@printRequiredFile A file is missing. texdepend will try to skip it this time, but it will be needed at
the next compilation
 92 \def\TD@printRequiredFile#1{%
 93   \TD@print{TD_\jobname\TD@extention _REQUIRED\space += #1}%
 94 }%

\RequireFile LaTeX users can directly declare a dependency
 95 \let\RequireFile\TD@printRequiredFile

\TD@printOut We write in a file
 96 \def\TD@printOut#1{%
 97   \TD@print{TD_\jobname\TD@extention _OUTPUTS\space += #1}%
 98 }%

\TD@printGraphicspath We modify the graphicspath
 99 \def\TD@printGraphicspath#1{%
100   \TD@print{TD_\jobname\TD@extention _GRAPHICSPATH\space := #1}%
101 }%

\TD@printBibfile We use a bibfile (*.bib)
102 \def\TD@printBibfile#1{%
103   \TD@print{TD_\jobname\TD@extention _BIBFILES\space += #1.bib}%
104 }%

\TD@printBibstyle We use a bibstyle file (*.bst)
105 \def\TD@printBibstyle#1{%
106   \TD@print{TD_\jobname\TD@extention _BIBSTYLES\space += #1.bst}%
107 }%

\TD@printBblfile We use a bibliography file (*.bbl)
108 \def\TD@printBblfile#1{%
109   \TD@print{TD_\jobname\TD@extention _BBLFILES\space += #1.bbl}%
110 }%

\TD@printRebuildRule We need a specific rule in the Makefile to check if a rebuild is needed
111 \def\TD@printRebuildRule#1{%
112   \TD@print{TD_\jobname\TD@extention _REBUILD_RULES\space += #1}%
113 }%

\TD@printIndex We use a new index
114 \def\TD@printIndex#1{%
115   \TD@print{TD_\jobname\TD@extention _INDEXES\space += INDEX}%
116   \TD@print{TD_\jobname\TD@extention _INDEXES_INDEX\space += #1}%
117 }%

```

```

\TD@printIndexSource The index file filled by LATEX
118 \def\TD@printIndexSource#1#2{%
119   \TD@print{TD_ \jobname\TD@extention _INDEX_#1_SRC\space = #2}%
120 }%

\TD@printIndexTarget And the index file read by LATEX after makeindex processing
121 \def\TD@printIndexTarget#1#2{%
122   \TD@print{TD_ \jobname\TD@extention _INDEX_#1_TARGET\space = #2}%
123 }%

\TD@printIndexStyle The index style to be used with makeindex (never called for now)
124 \def\TD@printIndexStyle#1#2{%
125   \TD@print{TD_ \jobname\TD@extention _INDEX_#1_STYLE\space = #2}%
126 }%

\TD@printGlossary And the same things for glossary. Its name
127 \def\TD@printGlossary#1{%
128   \TD@print{TD_ \jobname\TD@extention _INDEXES += GLOSS}%
129   \TD@print{TD_ \jobname\TD@extention _INDEXES_GLOSS\space += #1}%
130 }%

\TD@printGlossarySource The glossary file filled by LATEX
131 \def\TD@printGlossarySource#1#2{%
132   \TD@print{TD_ \jobname\TD@extention _GLOSS_#1_SRC\space = #2}%
133 }%

\TD@printGlossaryTarget And the glossary file read by LATEX after makeindex processing
134 \def\TD@printGlossaryTarget#1#2{%
135   \TD@print{TD_ \jobname\TD@extention _GLOSS_#1_TARGET\space = #2}%
136 }%

\TD@printGlossaryStyle The glossary style to be used with makeindex (never called for now)
137 \def\TD@printGlossaryStyle#1#2{%
138   \TD@print{TD_ \jobname\TD@extention _GLOSS_#1_STYLE\space = #2}%
139 }%

```

2.2.3 Diverting a macro

```

\TD@switch \TD@switch replace the macro \#1 by the macro \TD@#1. The original macro is
stored in the \TD@orig@#1 macro. Nothing is done if \#1 is already \TD@#1 (that
is if \TD@switch is called several times with the same argument)
140 \def\TD@switch#1{%
141   \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
142   \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
143   \ifx\TD@local@old\TD@local@new
144     \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
145   \else
146     \ifx\TD@local@old\relax

```

```

147      \TD@warning{Diverting empty macro '#1' \MessageBreak%
148          Probably a bug in texdepends.sty}%
149  \else
150      \TD@info{Diverting macro '#1'}%
151  \fi
152  \expandafter\let\csname TD@orig@\#1\endcsname\TD@local@old%
153  \expandafter\let\csname#\#1\endcsname\TD@local@new%
154 \fi
155 }%

```

\TD@docswitch Sometimes, we want the diversion to be delayed until the start of the document.

```

156 \def\TD@docswitchlist{}%
157 \def\TD@docswitch#1{%
158     \TD@info{Registering macro '#1' for diversion}%
159     \ifx\TD@docswitchlist\empty%
160         \xdef\TD@docswitchlist{\#1}%
161     \else%
162         \xdef\TD@docswitchlist{\TD@docswitchlist,\#1}%
163     \fi%
164 }%
165 \AtBeginDocument{%
166     \TD@info{Diverting registered macros...}%
167     \for\TD@cmd:=\TD@docswitchlist\do{%
168         \TD@switch{\TD@cmd}%
169     }%
170     \TD@info{Diversions done}%
171 }%

```

\TD@PackagePreDivert And then, two macros to insert command just before or after loading a package.

\TD@PackagePostDivert The first argument is the name of the package we want to add an hook before or after, and then there is the definition of the hook that will be called. Four parameters (#1, ..., #4) are available (the same as the `@onefilewithoptions` L^AT_EX macro, ie package name, options, and the two remaining ;-)).

```

172 \def\TD@PackagePreDivert#1{%
173     \expandafter\def\csname TD@PackageStart@\#1\endcsname ##1##2##3##4%
174 }%
175 \def\TD@PackagePostDivert#1{%
176     \expandafter\def\csname TD@PackageEnd@\#1\endcsname ##1##2##3##4%
177 }%

```

2.2.4 Initialisation

We need to be loaded *before* \documentclass

```

178 \ifx\documentclass\@twoclasseserror
179     \PackageError{texdepends}{texdepends needs to be loaded BEFORE
180     \string\documentclass \MessageBreak
181 Use \string\RequirePackage\space instead of \string\usepackage
182 \MessageBreak as the later is not allowed before
183 \string\documentclass}

```

```

184 \fi
And we write the first dependency (upon ourself)
185 \TD@printPackage{texdepends}
We write default graphicspath (is this really needed ?)
186 \TD@printGraphicspath{{.}}

```

2.2.5 Warning upon missing figures

\TD@depends
\TD@dependsWarning
\TD@missingDepends If some figures are missing, \TD@missingDepends will be called so that a warning will be displayed at the end of the compilation. Figures should be generated before the next run.

```

187 \def\TD@depends{}%
188 \def\TD@dependsWarning{}%
189   \PackageWarningNoLine{texdepends}{Figure(s) missing. Check
190   dependencies again}%
191 }%
192 \def\TD@missingDepends{}%
193   \global\let\TD@depends\TD@dependsWarning%
194 }%
195 \AtEndDocument{%
196   \TD@depends%
197 }%

```

2.3 Diversion of L^AT_EX macros

2.3.1 Class and package loading

\TD@@fileswith@pti@ns
\TD@@@fileswith@pti@ns Diverting \fileswith@pti@ns and @@fileswith@pti@ns so that we can track class loading. Package are tracked with an other macro (see just after).

```

198 \def\TD@@fileswith@pti@ns#1[#2]#3[#4]{%
199   \ifx#1\clsextension
200     \TD@printClass{#3}%
201   \fi
202   \TD@orig@@fileswith@pti@ns{#1}[#2]{#3}[#4]%
203 }%
204 \let\TD@@@fileswith@pti@ns\TD@@fileswith@pti@ns
205 \TD@switch{@fileswith@pti@ns}%
206 \TD@switch{@@fileswith@pti@ns}%

```

\TD@@onefilewithoptions By diverting \onefilewithoptions, we can track all loaded packages. We write the dependency, and we look at the loaded package to see if we need some special requirements

```

207 \def\TD@@onefilewithoptions#1[#2][#3]#4{%
208   \TD@printPackage{#1}%
209   \ifthenelse{\equal{#1}{texdepends}}{%

```

The `texdepends` package is special : we know it has already been loaded (we are running code in it) but perhaps L^AT_EX does not know it. So we try to honor the `debug` option.

```

210   \TD@debug{Package '#1' detected}
211   \Cfor\TD@package@option:=#2\do{%
212     \ifthenelse{\expandafter\isundefined\csname TD@option@\TD@package@option\endcsname}{%
213       \TD@warningLine{Ignoring unknown option '\TD@package@option'}%
214     }{%
215       \ifthenelse{%
216         \equal{\TD@package@option}{debug}%
217         \OR\equal{\TD@package@option}{debug}%
218       }{%
219         \csname TD@option@\TD@package@option\endcsname%
220       }{%
221         \TD@warningLine{Ignoring option '\TD@package@option'%
222           \MessageBreak #1 already loaded%
223         }%
224       }%
225     }%
226   }%
227 }{%
228   \expandafter\let\expandafter\TD@divert
229   \csname TD@PackageStart##1\endcsname
230   \ifx\TD@divert\relax
231     \TD@debug{No preamble for package #1}%
232   \else
233     \TD@info{Preamble for package #1}%
234     \TD@divert{##1}{##2}{##3}{##4}%
235   \fi
236   \TD@orig@@onefilewithoptions{##1}[##2][##3]{##4}%
237   \expandafter\let\expandafter\TD@divert
238   \csname TD@PackageEnd##1\endcsname
239   \ifx\TD@divert\relax
240     \TD@debug{No postamble for package #1}%
241   \else
242     \TD@info{Postamble for package #1}%
243     \TD@divert{##1}{##2}{##3}{##4}%
244   \fi
245 }%
246 }%
247 \TD@switch{@onefilewithoptions}%

```

2.3.2 Tracking input files

```

\TD@@iinput \Cinput and \input@ are diverted to track loaded files
\TD@@input@ 248 \def\TD@@iinput#1{%
249   \TD@printInput{#1}%
250   \TD@orig@@iinput{#1}}%
251 \def\TD@@input@#1{%

```

```

252 \IfFileExists{#1}{%
253   \TD@printInput{#1}%
254 }{%
255 \TD@orig@@input@{#1}%
256 \TD@switch{@iinput}%
257 \TD@switch{@input@}%
258 \def\TD@verbatiminput#1{%
259   \TD@printInput{#1}%
260   \TD@orig@verbatiminput{#1}%
261 \TD@PackagePostDivert{verbatim}%
262 \TD@switch{verbatiminput}}%

```

2.3.3 Tracking output files

```

\TD@openout Note: that does not work. Currently, we parse the log file instead of using this. If
\TD@openout@eq someone has ideas...
\TD@openout@noeq 263 \let\TD@orig@openout\openout
264 \def\TD@openout#1{%
265   \ifnextchar={\TD@openout@eq#1}{\TD@openout@noeq#1}}
266 \def\TD@openout@eq#1=#2.#3{%
267   \TD@printOut{#2.#3}%
268   \TD@orig@openout#1=#2.#3%
269 }%
270 \def\TD@openout@noeq#1#2.#3{%
271   \TD@printOut{#2.#3}%
272   \TD@orig@openout#1#2.#3%
273 }%
274 \% \TD@switch{openout}

```

2.3.4 Tracking bibliography files

```

275 \def\TD@bibli@bbi{%
276   \TD@printBblfile{\jobname}%
277   \global\let\TD@bibli@bbi\relax%
278 }%
279 \def\TD@bibli@files#1{%
280   \TD@bibli@bbi%
281   \@for\TD@bibfile:=#1\do{%
282     \TD@printBibfile{\TD@bibfile}%
283   }%
284 }
285 \def\TD@bibli@style#1{%
286   \TD@bibli@bbi%
287   \% \@for\TD@bibstyle:=#1\do{%
288     \% \TD@printBibstyle{\TD@bibstyle}%
289   }%
290   \TD@printBibstyle{#1}%
291 }
292 \def\TD@bibliography#1{%

```

```

293   \TD@bibli@files{#1}%
294   \TD@orig@bibliography{#1}%
295 }%
296 \def\TD@bibliographystyle#1{%
297   \TD@bibli@style{#1}%
298   \TD@orig@bibliographystyle{#1}%
299 }%
300 \TD@docswitch{bibliography}%
301 \TD@switch{bibliographystyle}%

```

2.3.5 Glossary and index files

```

302 \def\TD@makeindex{%
303   \TD@printIndex{\jobname}%
304   \TD@printIndexSource{\jobname}{\jobname.idx}%
305   \TD@orig@makeindex%
306 }%
307 \def\TD@makeglossary{%
308   \TD@printGlossary{\jobname}%
309   \TD@printGlossarySource{\jobname}{\jobname.glo}%
310   \TD@orig@makeglossary%
311 }%
312 \TD@switch{makeindex}%
313 \TD@switch{makeglossary}%

```

2.4 Diversion of package's macros

2.4.1 Package graphics

```

314 \def\TD@Gin@getbase#1{%
315   \TD@orig@Gin@getbase{#1}%
316   \ifx\Gin@ext\relax%
317   \else%
318     \TD@printFig{\Gin@base\Gin@ext}%
319   \fi%
320 }%
321 \def\TD@Gininclude@eps#1{%
322   \IfFileExists{#1}{%
323     \TD@orig@Gininclude@eps{#1}%
324   }{%
325     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
326       Skipping it this time (the last one however)\MessageBreak}%
327     \TD@missingDepends%
328     \TD@printRequiredFile{#1}%
329   }%
330 }%
331 \def\TD@Gininclude@pdf#1{%
332   \IfFileExists{#1}{%
333     \TD@orig@Gininclude@pdf{#1}%
334   }{%
335     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
336       Skipping it this time (the last one however)\MessageBreak}%

```

```

337      \TD@missingDepends%
338      \TD@printRequiredFile{#1}%
339  }%
340 }%
341 \def\TD@graphicspath#1{%
342   \TD@printGraphicspath{#1}%
343   \TD@orig@graphicspath{#1}%
344 }%
345 \def\TD@Gread@eps#1{%
346   \IfFileExists{#1}{%
347     \%PackageWarning{texdepends}{Gread File '#1' exists}%
348     \TD@orig@Gread@eps{#1}%
349   }{%
350     \PackageWarning{texdepends}{No '#1' file \MessageBreak
351       using 1 for graphic dimensions}%
352     \setbox\@tempboxa\hbox{\relax}%
353     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
354     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
355     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
356   }%
357 }%
358 \def\TD@Gread@pdf#1{%
359   \IfFileExists{#1}{%
360     \%PackageWarning{texdepends}{Gread File '#1' exists}%
361     \TD@orig@Gread@pdf{#1}%
362   }{%
363     \PackageWarning{texdepends}{No '#1' file \MessageBreak
364       using 1 for graphic dimensions}%
365     \setbox\@tempboxa\hbox{\relax}%
366     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
367     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
368     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
369   }%
370 }%
371 \TD@PackagePostDivert{graphics}{%
372   \TD@switch{graphics}%
373   \TD@docswitch{Gin@getbase}%
374   \TD@docswitch{Ginclude@eps}%
375   \TD@docswitch{Ginclude@pdf}%
376   \TD@docswitch{Gread@eps}%
377   \TD@docswitch{Gread@pdf}%
378 }%
379 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
380 % We do not want to fail when trying to load a missing subfig.
381 % \Ginclude@rawtex
382 \def\TD@FL@incluaderawtexgraphics[#1]{%
383   \IfFileExists{#2}{%
384     \TD@orig@FL@incluaderawtexgraphics[#1]{#2}%

```

```

385  }{%
386      \PackageWarning{texdepends}{Figure '#2' needed\MessageBreak
387          Skipping it this time (the last one however)\MessageBreak}%
388      \TD@missingDepends%
389      \TD@printRequiredFile{#2}%
390  }%
391 }%
392
393 \def\TD@Ginclude@rawtex#1{%
394     \IfFileExists{#1}{%
395         \TD@orig@Ginclude@rawtex{#1}%
396     }{%
397         \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
398             Skipping it this time (the last one however)\MessageBreak}%
399         \TD@missingDepends%
400         \TD@printRequiredFile{#1}%
401     }%
402 }%
403
404 % \Ginclude@figtex
405 \def\TD@Ginclude@figtex#1{%
406     \IfFileExists{#1}{%
407         \% \PackageWarning{texdepends}{Ginclude File '#1' exists}%
408         \TD@orig@Ginclude@figtex{#1}%
409     }{%
410         \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
411             \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
412                 Skipping it this time (the last one however)\MessageBreak}%
413         }{%
414             \PackageWarning{texdepends}{SubFigure '#1' from
415                 \FL@subfig@mainfigname needed\MessageBreak
416                 Skipping it this time (the last one however)\MessageBreak}%
417         }
418         \TD@missingDepends%
419         \TD@printRequiredFile{#1}%
420     }%
421 }%
422 % \Ginclude@svgtex
423 \def\TD@Ginclude@svgtex#1{%
424     \IfFileExists{#1}{%
425         \% \PackageWarning{texdepends}{Ginclude File '#1' exists}%
426         \TD@orig@Ginclude@svgtex{#1}%
427     }{%
428         \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
429             \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
430                 Skipping it this time (the last one however)\MessageBreak}%
431         }{%
432             \PackageWarning{texdepends}{SubFigure '#1' from
433                 \FL@subfig@mainfigname needed\MessageBreak
434                 Skipping it this time (the last one however)\MessageBreak}%

```

```

435      }
436      \TD@missingDepends%
437      \TD@printRequiredFile{#1}%
438  }%
439 }%
440
441
442 % \Gread@figtex
443 \def\TD@Gread@figtex#1{%
444   \IfFileExists{#1}{%
445     \%PackageWarning{texdepends}{Gread File '#1' exists}%
446     \TD@orig@Gread@figtex{#1}%
447   }{%
448     \PackageWarning{texdepends}{No '#1' file \MessageBreak
449       using 1 for graphic dimensions}%
450     \setbox\@tempboxa\hbox{\relax}%
451     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
452     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
453     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
454   }%
455 }%
456
457 % \Gread@svgtex
458 \def\TD@Gread@svgtex#1{%
459   \IfFileExists{#1}{%
460     \%PackageWarning{texdepends}{Gread File '#1' exists}%
461     \TD@orig@Gread@svgtex{#1}%
462   }{%
463     \PackageWarning{texdepends}{No '#1' file \MessageBreak
464       using 1 for graphic dimensions}%
465     \setbox\@tempboxa\hbox{\relax}%
466     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
467     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
468     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
469   }%
470 }%
471 % \FL@subfig@check
472 \def\TD@FL@subfig@check#1{%
473   \TD@printRequiredFile{#1}%
474   \TD@printSubfig{#1}%
475 }%
476 %
477 \TD@PackagePostDivert{figlatex}{%
478   \TD@docswitch{FL@includerawtexgraphics}%
479   \TD@docswitch{Ginclude@rawtex}%
480   \TD@docswitch{Ginclude@figtex}%
481   \TD@docswitch{Ginclude@svgtex}%
482   \TD@docswitch{Gread@figtex}%
483   \TD@docswitch{Gread@svgtex}%
484   \TD@docswitch{FL@subfig@check}%

```

```

485 }%

```

2.4.3 Package doc

```

486 \def\TD@PrintIndex{%
487   \TD@printIndexStyle{\jobname}{gind.ist}
488   \TD@printIndexTarget{\jobname}{\jobname.ind}
489   \TD@orig@PrintIndex%
490 }%
491 \def\TD@PrintChanges{%
492   \TD@printGlossaryStyle{\jobname}{gglo.ist}
493   \TD@printGlossaryTarget{\jobname}{\jobname.gls}
494   \TD@orig@PrintChanges%
495 }%
496 \TD@PackagePostDivert{doc}{%
497   \TD@docsswitch{PrintIndex}%
498   \TD@docsswitch{PrintChanges}%
499 }%

```

2.4.4 Package index

```

500 \def\TD@def@index#1#2#3#4{%
501   \TD@printIndex{#2}%
502   \TD@printIndexSource{#2}{\jobname.#3}%
503   \TD@printIndexTarget{#2}{\jobname.#4}%
504   \TD@orig@def@index{#1}{#2}{#3}{#4}%
505 }%
506 \TD@PackagePostDivert{index}{%
507   \TD@switch{def@index}%
508 }%

```

2.4.5 Package makeidx

```

509 \def\TD@printindex{%
510   \TD@printIndexTarget{\jobname}{\jobname.ind}
511   \TD@orig@printindex%
512 }%
513 \TD@PackagePostDivert{makeidx}{%
514   \TD@docsswitch{printindex}%
515 }%

```

2.4.6 Package nomencl

We divert `maketitle` again after loading this package as its redefines this macro (loosing our diversion). We also setup the glossary style for this package.

```

516 \def\TD@printglossary{%
517   \TD@printGlossaryTarget{\jobname}{\jobname.gls}
518   \TD@orig@printglossary%
519 }%
520 \TD@PackagePostDivert{nomencl}{%
521   \TD@docsswitch{printglossary}%
522   \TD@switch{maketitle}%
523   \TD@printGlossaryStyle{\jobname}{nomencl.ist}

```

```
524 }%
```

2.4.7 Package bibtopic

```
525 % For the bibtopic package
526 \def\TD@btSect{%
527   \@ifnextchar[\{\TD@btSect@opt\}\{\TD@btSect@noopt\}%
528 \def\TD@btSect@opt[#1]#2{%
529   \TD@bibli@files{#2}%
530   \TD@bibli@style{#1}%
531   \TD@orig@btSect[#1]{#2}%
532 \def\TD@btSect@noopt#1{%
533   \TD@bibli@files{#1}%
534   \TD@orig@btSect{#1}%
535
536 \def\TD@bt@write@auxfile{%
537   \TD@printBblfile{\thebtauxfile}%
538   \TD@orig@@bt@write@auxfile%
539 }%
540 \TD@PackagePostDivert{bibtopic}{%
541   \global\let\TD@bibli@bbl\relax%
542   \global\let\TD@biblio@rules@package\TD@biblio@rules@package@bibtopic%
543   \TD@switch{@bt@write@auxfile}%
544   \TD@printOut{btbb1.aux}%
545   \TD@printRebuildRule{bibtopic}%
546   \TD@docswitch{btSect}%
547 }%
```

2.4.8 Package comment

```
548 % For the comment package, the |comment.cut| file must not be used as
549 % a dependency: it is read and written several times during a compilation.
550 \TD@PackagePostDivert{comment}{%
551   \TD@printNoDependsFile{comment.cut}%
552 }%
553 </package>
```

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols	
\@Ginclude@figtex	..... 404
\@Ginclude@rawtex	..... 381
\@Ginclude@svgtex	..... 422
\@Gread@figtex	..... 442
\@Gread@svgtex	..... 457
\@clsextension	..... 199
\@for	..... 167, 211, 281, 287
\@ifnextchar	..... 265, 527
\@tempboxa	352, 354, 355, 365, 367, 368, 450, 452, 453, 465, 467, 468
\@twoclasseserror	..... 178

	R
\@unknownoptionerror	19
A	
\AtBeginDocument	165
\AtEndDocument	195
B	
\boolean	56, 63
C	
\CurrentOption	31, 32
D	
debug (option)	<u>3</u>
\documentclass	178, 180, 183
E	
extension (option)	<u>8</u>
F	
\FL@subfig@check	471
\FL@subfig@mainfigname	410, 415, 428, 433
G	
\Gin@base	318
\Gin@defaultbpx	354, 355, 367, 368, 452, 453, 467, 468
\Gin@ext	316, 318
\Gin@llx	353, 366, 451, 466
\Gin@lly	353, 366, 451, 466
\Gin@urx	354, 367, 452, 467
\Gin@ury	355, 368, 453, 468
I	
\ifxetex	38
\isundefined	35, 212, 410, 428
N	
\newboolean	<u>3</u>
O	
options:	
debug	<u>3</u>
extension	<u>8</u>
\OR	217
P	
\PackageError	179
\PackageInfo	59
R	
\RequireFile	<u>95</u>
S	
\setboolean	6
T	
\TD@@@fileswith@pti@ns	198
\TD@@bt@write@auxfile	536
\TD@@fileswith@pti@ns	<u>198</u>
\TD@@iinput	<u>248</u>
\TD@@input@	<u>248</u>
\TD@@onefilewithoptions	<u>207</u>
\TD@bibfile	281, 282
\TD@bibli@bbx	275, 277, 280, 286, 541
\TD@bibli@files	279, 293, 529, 533
\TD@bibli@style	285, 297, 530
\TD@biblio@rules@package	542
\TD@biblio@rules@package@bibtopic	542
\TD@bibliography	292
\TD@bibliographystyle	296
\TD@bibstyle	287, 288
\TD@btSect	526
\TD@btSect@noopt	527, 532
\TD@btSect@opt	527, 528
\TD@cmd	167, 168
\TD@debug	<u>62</u> , 210, 231, 240
\TD@def@index	500
\TD@depends	<u>187</u>
\TD@dependsWarning	<u>187</u>
\TD@divert	228, 230, 234, 237, 239, 243
\TD@docswitch	<u>156</u> , 300, 373–377, 478–484, 497, 498, 514, 521, 546
\TD@docswitchlist	<u>156</u> , 159, 160, 162, 167
\TD@extention	10, 35, 40, 43, 46, 69, 70, 75, 78, 81, 84, 87, 90, 93, 97, 100, 103, 106, 109, 112, 115, 116, 119, 122, 125, 128, 129, 132, 135, 138
\TD@FL@includerawtexgraphics	382
\TD@FL@subfig@check	472
\TD@Gin@getbase	314
\TD@Ginclude@eps	321
\TD@Ginclude@figtex	405
\TD@Ginclude@pdf	331
\TD@Ginclude@rawtex	393
\TD@Ginclude@svgtex	423
\TD@graphicspath	341

\TD@Gread@eps 345
 \TD@Gread@figtex 443
 \TD@Gread@pdf 358
 \TD@Gread@svgtex 458
 \TD@info 55,
 69, 150, 158, 166, 170, 233, 242
 \TD@local@new 142, 143, 153
 \TD@local@old 141, 143, 146, 152
 \TD@makeglossary 307
 \TD@makeindex 302
 \TD@missingDepends
 187, 327, 337, 388, 399, 418, 436
 \TD@openout 263
 \TD@openout@eq 265, 266
 \TD@openout@noeq 265, 270
 \TD@option@cmd 15, 18, 22, 25
 \TD@option@debug 4
 \TD@option@extension 8
 \TD@option@name 13, 14, 16
 \TD@option@split 12, 32
 \TD@option@value 24, 25
 \TD@orig@@bt@write@auxfile 538
 \TD@orig@@fileswith@pti@ns 202
 \TD@orig@@iinput 250
 \TD@orig@@input@ 255
 \TD@orig@@onefilewithoptions .. 236
 \TD@orig@bibliography 294
 \TD@orig@bibliographystyle 298
 \TD@orig@btSect 531, 534
 \TD@orig@def@index 504
 \TD@orig@FL@includerawtexgraphics
 384
 \TD@orig@Gin@getbase 315
 \TD@orig@Gin@include@eps 323
 \TD@orig@Gin@include@figtex 408
 \TD@orig@Gin@include@pdf 333
 \TD@orig@Gin@include@rawtex 395
 \TD@orig@Gin@include@svgtex 426
 \TD@orig@graphicspath 343
 \TD@orig@Gread@eps 348
 \TD@orig@Gread@figtex 446
 \TD@orig@Gread@pdf 361
 \TD@orig@Gread@svgtex 461
 \TD@orig@makeglossary 310
 \TD@orig@makeindex 305
 \TD@orig@openout 263, 268, 272
 \TD@orig@PrintChanges 494
 \TD@orig@printglossary 518
 \TD@orig@PrintIndex 489
 \TD@orig@printindex 511
 \TD@orig@verbatiminput 260
 \TD@package@option
 ... 211–213, 216, 217, 219, 221
 \TD@PackagePostDivert
 172, 261, 371,
 477, 496, 506, 513, 520, 540, 550
 \TD@PackagePreDivert 172
 \TD@poenout@eq 263
 \TD@poenout@noeq 263
 \TD@print 71, 75, 78,
 81, 84, 87, 90, 93, 97, 100, 103,
 106, 109, 112, 115, 116, 119,
 122, 125, 128, 129, 132, 135, 138
 \TD@printBblfile 108, 276, 537
 \TD@printBibfile 102, 282
 \TD@printBibstyle 105, 288, 290
 \TD@PrintChanges 491
 \TD@printClass 74, 200
 \TD@printFig 83, 86, 318
 \TD@printGlossary 127, 308
 \TD@printglossary 516
 \TD@printGlossarySource ... 131, 309
 \TD@printGlossaryStyle 137, 492, 523
 \TD@printGlossaryTarget 134, 493, 517
 \TD@printGraphicspath . 99, 186, 342
 \TD@PrintIndex 486
 \TD@printIndex 114, 303, 501
 \TD@printindex 509
 \TD@printIndexSource ... 118, 304, 502
 \TD@printIndexStyle 124, 487
 \TD@printIndexTarget
 121, 488, 503, 510
 \TD@printInput 80, 249, 253, 259
 \TD@printNoDependsFile 83, 551
 \TD@printOut 96, 267, 271, 544
 \TD@printPackage 77, 185, 208
 \TD@printRebuildRule 111, 545
 \TD@printRequiredFile ... 92, 95,
 328, 338, 389, 400, 419, 437, 473
 \TD@printSubfig 89, 474
 \TD@switch 140, 168, 205,
 206, 247, 256, 257, 262, 274,
 301, 312, 313, 372, 507, 522, 543
 \TD@verbatiminput 258
 \TD@warning 49, 147
 \TD@warningLine 52, 213, 221
 \TD@write 68, 70, 72
 \thebtauxfile 537

U	
\usepackage	..... 181

Change History

v1.0.1	subfig files	1	
General: Version 1.0.1 at last . . .	1		
v1.0.2	General: Add support for package index.sty	1	
v1.1.0	General: Manage index/glossary . . . Rewrite of the package	1	
v1.2.0	General: Better management of		
	v1.3.0	General: Management of svg files 1	
	v2.2.5	General: No changes in texdepends.dtx	1
	v2.3.0	General: ignore comment.cut file from the comment package . . .	1