

The `texdepends` package*

Vincent DANJEAN

2008/01/28

Abstract

This package allows \LaTeX 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	3
2.2.3	Diverting a macro	6
2.2.4	Initialisation	7
2.2.5	Warning upon missing figures	8
2.3	Diversion of \LaTeX 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 <code>graphics</code>	11
2.4.2	Package <code>figltx</code>	12
2.4.3	Package <code>doc</code>	14
2.4.4	Package <code>index</code>	14
2.4.5	Package <code>makeidx</code>	14
2.4.6	Package <code>nomencl</code>	14
2.4.7	Package <code>bibtoc</code>	15

*This file has version number Automatic, last revised 2008/01/28.

1 Introduction

This package automatically generates dependencies 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 dependencies.

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 extension #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       \@unknownoptionerror%
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 }%
```

So lets process options

```
34 \ProcessOptions
```

2.2 Tools

Some macros to help development

2.2.1 Debug/info wrapper

`\TD@warning` To write a warning

```
35 \newcommand{\TD@warning}[1]{%
36   \PackageWarningNoLine{texdepends}{#1}%
37 }%
```

`\TD@warningLine` To write a warning with line info

```
38 \newcommand{\TD@warningLine}[1]{%
39   \PackageWarning{texdepends}{#1}%
40 }%
```

`\TD@info` To write an info (as a warning if the debug option is set

```
41 \newcommand{\TD@info}[1]{%
42   \ifthenelse{\boolean{TD@debug}}{%
43     \PackageWarningNoLine{texdepends}{#1}%
44   }{%
45     \PackageInfo{texdepends}{#1}%
46   }%
47 }%
```

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

```
48 \newcommand{\TD@debug}[1]{%
49   \ifthenelse{\boolean{TD@debug}}{%
50     \PackageWarningNoLine{texdepends}{#1}%
51   }{%
52   }%
53 }%
```

2.2.2 Writing dependencies

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

```
54 \newwrite\TD@write
55 \TD@info{Writing info in '\jobname\TD@extention.mk'}
56 \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
57 \def\TD@print#1{%
58 \immediate\write\TD@write{#1}%
59 }%

\TD@printClass We need a class
60 \def\TD@printClass#1{%
61 \TD@print{TD_\jobname\TD@extention _INPUTS\space += #1.cls}%
62 }%

\TD@printPackage We need a package
63 \def\TD@printPackage#1{%
64 \TD@print{TD_\jobname\TD@extention _INPUTS\space += #1.sty}%
65 }%

\TD@printInput We need a (LATEX) file
66 \def\TD@printInput#1{%
67 \TD@print{TD_\jobname\TD@extention _INPUTS\space += #1}%
68 }%

\TD@printFig We need an XFig file
69 \def\TD@printFig#1{%
70 \TD@print{TD_\jobname\TD@extention _FIGURES\space += #1}%
71 }%

\TD@printSubfig We need a subfig file (see figlatex.dtx)
72 \def\TD@printSubfig#1{%
73 \TD@print{TD_\jobname\TD@extention _SUBFIGS\space += #1}%
74 }%

\TD@printRequiredFile A file is missing. texdepend will try to skip it this time, but it will be needed at
the next compilation
75 \def\TD@printRequiredFile#1{%
76 \TD@print{TD_\jobname\TD@extention _REQUIRED\space += #1}%
77 }%

\RequireFile LaTeX users can directly declare a dependencie
78 \let\RequireFile\TD@printRequiredFile

\TD@printOut We write in a file
79 \def\TD@printOut#1{%
80 \TD@print{TD_\jobname\TD@extention _OUTPUTS\space += #1}%
81 }%

\TD@printGraphicspath We modify the graphicspath
82 \def\TD@printGraphicspath#1{%
83 \TD@print{TD_\jobname\TD@extention _GRAPHICSPATH\space := #1}%
84 }%
```

```

\TD@printBibfile We use a bibfile (*.bib)
85 \def\TD@printBibfile#1{%
86 \TD@print{TD_\jobname\TD@extention _BIBFILES\space += #1.bib}%
87 }%

\TD@printBibstyle We use a bibstyle file (*.bst)
88 \def\TD@printBibstyle#1{%
89 \TD@print{TD_\jobname\TD@extention _BIBSTYLES\space += #1.bst}%
90 }%

\TD@printBblfile We use a bibliography file (*.bbl)
91 \def\TD@printBblfile#1{%
92 \TD@print{TD_\jobname\TD@extention _BBLFILES\space += #1.bbl}%
93 }%

\TD@printRebuildRule We need a specific rule in the Makefile to check if a rebuild is needed
94 \def\TD@printRebuildRule#1{%
95 \TD@print{TD_\jobname\TD@extention _REBUILD_RULES\space += #1}%
96 }%

\TD@printIndex We use a new index
97 \def\TD@printIndex#1{%
98 \TD@print{TD_\jobname\TD@extention _INDEXES\space += INDEX}%
99 \TD@print{TD_\jobname\TD@extention _INDEXES_INDEX\space += #1}%
100 }%

\TD@printIndexSource The index file filled by LATEX
101 \def\TD@printIndexSource#1#2{%
102 \TD@print{TD_\jobname\TD@extention _INDEX_#1_SRC\space = #2}%
103 }%

\TD@printIndexTarget And the index file read by LATEX after makeindex processing
104 \def\TD@printIndexTarget#1#2{%
105 \TD@print{TD_\jobname\TD@extention _INDEX_#1_TARGET\space = #2}%
106 }%

\TD@printIndexStyle The index style to be used with makeindex (never called for now)
107 \def\TD@printIndexStyle#1#2{%
108 \TD@print{TD_\jobname\TD@extention _INDEX_#1_STYLE\space = #2}%
109 }%

\TD@printGlossary And the same things for glossary. Its name
110 \def\TD@printGlossary#1{%
111 \TD@print{TD_\jobname\TD@extention _INDEXES += GLOSS}%
112 \TD@print{TD_\jobname\TD@extention _INDEXES_GLOSS\space += #1}%
113 }%

```

```

\TD@printGlossarySource The glossary file filled by LATEX
114 \def\TD@printGlossarySource#1#2{%
115 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_SRC\space = #2}%
116 }%

\TD@printGlossaryTarget And the glossary file read by LATEX after makeindex processing
117 \def\TD@printGlossaryTarget#1#2{%
118 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_TARGET\space = #2}%
119 }%

\TD@printGlossaryStyle The glossary style to be used with makeindex (never called for now)
120 \def\TD@printGlossaryStyle#1#2{%
121 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_STYLE\space = #2}%
122 }%

```

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)
123 \def\TD@switch#1{%
124 \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
125 \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
126 \ifx\TD@local@old\TD@local@new
127 \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
128 \else
129 \ifx\TD@local@old\relax
130 \TD@warning{Diverting empty macro '#1' \MessageBreak%
131 Probably a bug in texdepends.sty}%
132 \else
133 \TD@info{Diverting macro '#1'}%
134 \fi
135 \expandafter\let\csname TD@orig@#1\endcsname\TD@local@old%
136 \expandafter\let\csname#1\endcsname\TD@local@new%
137 \fi
138 }%

\TD@docswitch Sometimes, we want the diversion to be delayed until the start of the document.
139 \def\TD@docswitchlist{}%
140 \def\TD@docswitch#1{%
141 \TD@info{Registering macro '#1' for diversion}%
142 \ifx\TD@docswitchlist\@empty%
143 \xdef\TD@docswitchlist{#1}%
144 \else%
145 \xdef\TD@docswitchlist{\TD@docswitchlist,#1}%
146 \fi%
147 }%
148 \AtBeginDocument{%
149 \TD@info{Diverting registered macros...}%

```

```

150 \@for\TD@cmd:=\TD@docswitchlist\do{%
151   \TD@switch{\TD@cmd}%
152 }%
153 \TD@info{Divertions done}%
154 }%

```

`\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 ;-)).

```

155 \def\TD@PackagePreDivert#1{%
156   \expandafter\def\csname TD@PackageStart@#1\endcsname ##1##2##3##4%
157 }%
158 \def\TD@PackagePostDivert#1{%
159   \expandafter\def\csname TD@PackageEnd@#1\endcsname ##1##2##3##4%
160 }%

```

2.2.4 Initialisation

If the `extention` option is not used, we try to find ourself the good extention

```

161 \ifthenelse{\isundefined{\TDextention}}{%
162   \RequirePackage{ifpdf}%
163   \ifpdf%
164   \TD@debug{No extention set, using pdf}%
165   \def\TD@extention{.pdf}%
166   \else%
167   \TD@debug{No extention set, using dvi}%
168   \def\TD@extention{.dvi}%
169   \fi%
170 }{%
171   \TD@debug{Extention set to \TDextention}%
172   \def\TD@extention{.\TDextention}%
173 }%

```

We need to be loaded *before* `\documentclass`

```

174 \ifx\documentclass\twoclasseserror
175   \PackageError{texdepends}{texdepends needs to be loaded BEFORE
176 \string\documentclass \MessageBreak
177 Use \string\RequirePackage\space instead of \string\usepackage
178 \MessageBreak as the later is not allowed before
179 \string\documentclass}
180 \fi

```

And we write the first dependency (upon ourself)

```
181 \TD@printPackage{texdepends}
```

We write default graphicspath (is this really needed ?)

```
182 \TD@printGraphicspath{.}
```

2.2.5 Warning upon missing figures

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

```
183 \def\TD@depends{}%
184 \def\TD@dependsWarning{%
185   \PackageWarningNoLine{texdepends}{Figure(s) missing. Check
186     dependencies again}%
187 }%
188 \def\TD@missingDepends{%
189   \global\let\TD@depends\TD@dependsWarning%
190 }%
191 \AtEndDocument{%
192   \TD@depends%
193 }%
```

2.3 Diversion of L^AT_EX macros

2.3.1 Class and package loading

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

```
194 \def\TD@@fileswith@pti@ns#1[#2]#3[#4]{%
195   \ifx#1\@clsextension
196     \TD@printClass{#3}
197   \fi
198   \TD@orig@@fileswith@pti@ns{#1}[#2]{#3}[#4]%
199 }%
200 \let\TD@@@fileswith@pti@ns\TD@@fileswith@pti@ns
201 \TD@switch{@fileswith@pti@ns}%
202 \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

```
203 \def\TD@@@onefilewithoptions#1[#2][#3]#4{%
204   \TD@printPackage{#1}%
205   \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.

```
206   \TD@debug{Package '#1' detected}
207   \@for\TD@package@option:=#2\do{%
208     \ifthenelse{\expandafter\isundefined\cscname TD@option@\TD@package@option\endcsname}{
209       \TD@warningLine{Ignoring unknown option '\TD@package@option'}
210     }{
211       \ifthenelse{%
```



```

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

```

2.3.2 Tracking input files

\TD@@input \@iinput and \@input@ are diverted to track loaded files

```

\TD@@input@ 244 \def\TD@@input#1{%
245   \TD@printInput{#1}%
246   \TD@orig@@input{#1}}%
247 \def\TD@@input@#1{%
248   \IfFileExists{#1}{%
249     \TD@printInput{#1}%
250   }{}}%
251   \TD@orig@@input@{#1}}%
252 \TD@switch{@input}%
253 \TD@switch{@input@}%
254 \def\TD@verbatiminput#1{%
255   \TD@printInput{#1}%
256   \TD@orig@verbatiminput{#1}}%

```

```

257 \TD@PackagePostDivert{verbatim}{%
258 \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@poenout@eq someone has ideas...
\TD@poenout@noeq 259 \let\TD@orig@openout\openout
260 \def\TD@openout#1{%
261 \ifnextchar={\TD@openout@eq#1}{\TD@openout@noeq#1}}
262 \def\TD@openout@eq#1=#2.#3{%
263 \TD@printOut{#2.#3}%
264 \TD@orig@openout#1=#2.#3%
265 }%
266 \def\TD@openout@noeq#1#2.#3{%
267 \TD@printOut{#2.#3}%
268 \TD@orig@openout#1#2.#3%
269 }%
270 %\TD@switch{openout}

```

2.3.4 Tracking bibliography files

```

271 \def\TD@bibli@bbl{%
272 \TD@printBblfile{\jobname}%
273 \global\let\TD@bibli@bbl\relax%
274 }%
275 \def\TD@bibli@files#1{%
276 \TD@bibli@bbl%
277 \@for\TD@bibfile:=#1\do{%
278 \TD@printBibfile{\TD@bibfile}%
279 }%
280 }
281 \def\TD@bibli@style#1{%
282 \TD@bibli@bbl%
283 %\@for\TD@bibstyle:=#1\do{%
284 % \TD@printBibstyle{\TD@bibstyle}%
285 %}
286 \TD@printBibstyle{#1}%
287 }
288 \def\TD@bibliography#1{%
289 \TD@bibli@files{#1}%
290 \TD@orig@bibliography{#1}%
291 }%
292 \def\TD@bibliographystyle#1{%
293 \TD@bibli@style{#1}%
294 \TD@orig@bibliographystyle{#1}%
295 }%
296 \TD@docswitch{bibliography}%
297 \TD@switch{bibliographystyle}%

```

2.3.5 Glossary and index files

```
298 \def\TD@makeindex{%
299   \TD@printIndex{\jobname}%
300   \TD@printIndexSource{\jobname}{\jobname.idx}%
301   \TD@orig@makeindex%
302 }%
303 \def\TD@makeglossary{%
304   \TD@printGlossary{\jobname}%
305   \TD@printGlossarySource{\jobname}{\jobname.glo}%
306   \TD@orig@makeglossary%
307 }%
308 \TD@switch{makeindex}%
309 \TD@switch{makeglossary}%
```

2.4 Diversion of package's macros

2.4.1 Package graphics

```
310 \def\TD@Gin@getbase#1{%
311   \TD@orig@Gin@getbase{#1}%
312   \ifx\Gin@ext\relax%
313     \else%
314     \TD@printFig{\Gin@base\Gin@ext}%
315     \fi%
316 }%
317 \def\TD@Gin@include@eps#1{%
318   \IfFileExists{#1}{%
319     \TD@orig@Gin@include@eps{#1}%
320   }{%
321     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
322       Skipping it this time (the last one however)\MessageBreak}%
323     \TD@missingDepends%
324     \TD@printRequiredFile{#1}%
325   }%
326 }%
327 \def\TD@Gin@include@pdf#1{%
328   \IfFileExists{#1}{%
329     \TD@orig@Gin@include@pdf{#1}%
330   }{%
331     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
332       Skipping it this time (the last one however)\MessageBreak}%
333     \TD@missingDepends%
334     \TD@printRequiredFile{#1}%
335   }%
336 }%
337 \def\TD@graphicspath#1{%
338   \TD@printGraphicspath{#1}%
339   \TD@orig@graphicspath{#1}%
340 }%
341 \def\TD@Gread@eps#1{%
```

```

342 \IfFileExists{#1}{%
343   \%PackageWarning{texdepends}{Gread File '#1' exists}%
344   \TD@orig@Gread@eps{#1}%
345 }{%
346   \PackageWarning{texdepends}{No '#1' file \MessageBreak
347     using 1 for graphic dimensions}%
348   \setbox\@tempboxa\hbox{\relax}%
349   \def\Gin@llx{1}\let\Gin@lly\Gin@llx
350   \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
351   \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
352 }%
353 }%
354 \def\TD@Gread@pdf#1{%
355   \IfFileExists{#1}{%
356     \%PackageWarning{texdepends}{Gread File '#1' exists}%
357     \TD@orig@Gread@pdf{#1}%
358   }{%
359     \PackageWarning{texdepends}{No '#1' file \MessageBreak
360       using 1 for graphic dimensions}%
361     \setbox\@tempboxa\hbox{\relax}%
362     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
363     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
364     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
365   }%
366 }%
367 \TD@PackagePostDivert{graphics}{%
368   \TD@switch{graphicspath}%
369   \TD@docswitch{Gin@getbase}%
370   \TD@docswitch{Gin@include@eps}%
371   \TD@docswitch{Gin@include@pdf}%
372   \TD@docswitch{Gread@eps}%
373   \TD@docswitch{Gread@pdf}%
374 }%

```

2.4.2 Package figlatex

```

375 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
376 % We do not want to fail when trying to load a missing subfig.
377 % \Gin@rawtex
378 \def\TD@FL@includerawtexgraphics[#1]#2{%
379   \IfFileExists{#2}{%
380     \TD@orig@FL@includerawtexgraphics[#1]{#2}%
381   }{%
382     \PackageWarning{texdepends}{Figure '#2' needed\MessageBreak
383       Skipping it this time (the last one however)\MessageBreak}%
384     \TD@missingDepends%
385     \TD@printRequiredFile{#2}%
386   }%
387 }%
388
389 \def\TD@Gin@rawtex#1{%

```

```

390 \IfFileExists{#1}{%
391   \TD@orig@Gininclude@rawtex{#1}%
392 }{%
393   \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
394     Skipping it this time (the last one however)\MessageBreak}%
395   \TD@missingDepends%
396   \TD@printRequiredFile{#1}%
397 }%
398 }%
399
400 % \@Gininclude@figtex
401 \def\TD@Gininclude@figtex#1{%
402   \IfFileExists{#1}{%
403     \PackageWarning{texdepends}{Gininclude File '#1' exists}%
404     \TD@orig@Gininclude@figtex{#1}%
405   }{%
406     \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
407       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
408         Skipping it this time (the last one however)\MessageBreak}%
409     }{%
410       \PackageWarning{texdepends}{SubFigure '#1' from
411         \FL@subfig@mainfigname needed\MessageBreak
412         Skipping it this time (the last one however)\MessageBreak}%
413     }
414     \TD@missingDepends%
415     \TD@printRequiredFile{#1}%
416   }%
417 }%
418
419 % \@Gread@figtex
420 \def\TD@Gread@figtex#1{%
421   \IfFileExists{#1}{%
422     \PackageWarning{texdepends}{Gread File '#1' exists}%
423     \TD@orig@Gread@figtex{#1}%
424   }{%
425     \PackageWarning{texdepends}{No '#1' file \MessageBreak
426       using 1 for graphic dimensions}%
427     \setbox\@tempboxa\hbox{\relax}%
428     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
429     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
430     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
431   }%
432 }%
433 % \FL@subfig@check
434 \def\TD@FL@subfig@check#1{%
435   \TD@printRequiredFile{#1}%
436   \TD@printSubfig{#1}%
437 }%
438 %
439 \TD@PackagePostDivert{figlax}{%

```

```

440 \TD@docswitch{FL@includerawtexgraphics}%
441 \TD@docswitch{Ginclude@rawtex}%
442 \TD@docswitch{Ginclude@figtex}%
443 \TD@docswitch{Gread@figtex}%
444 \TD@docswitch{FL@subfig@check}%
445 }%

```

2.4.3 Package doc

```

446 \def\TD@PrintIndex{%
447 \TD@printIndexStyle{\jobname}{gind.ist}
448 \TD@printIndexTarget{\jobname}{\jobname.ind}
449 \TD@orig@PrintIndex%
450 }%
451 \def\TD@PrintChanges{%
452 \TD@printGlossaryStyle{\jobname}{gglo.ist}
453 \TD@printGlossaryTarget{\jobname}{\jobname.gls}
454 \TD@orig@PrintChanges%
455 }%
456 \TD@PackagePostDivert{doc}{%
457 \TD@docswitch{PrintIndex}%
458 \TD@docswitch{PrintChanges}%
459 }%

```

2.4.4 Package index

```

460 \def\TD@def@index#1#2#3#4{%
461 \TD@printIndex{#2}%
462 \TD@printIndexSource{#2}{\jobname.#3}%
463 \TD@printIndexTarget{#2}{\jobname.#4}
464 \TD@orig@def@index{#1}{#2}{#3}{#4}%
465 }%
466 \TD@PackagePostDivert{index}{%
467 \TD@switch{def@index}%
468 }%

```

2.4.5 Package makeidx

```

469 \def\TD@printindex{%
470 \TD@printIndexTarget{\jobname}{\jobname.ind}
471 \TD@orig@printindex%
472 }%
473 \TD@PackagePostDivert{makeidx}{%
474 \TD@docswitch{printindex}%
475 }%

```

2.4.6 Package nomencl

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

```

476 \def\TD@printglossary{%
477 \TD@printGlossaryTarget{\jobname}{\jobname.gls}
478 \TD@orig@printglossary%

```

```

479 }%
480 \TD@PackagePostDivert{nomenc1}{%
481   \TD@docswitch{printglossary}%
482   \TD@switch{makeglossary}%
483   \TD@printGlossaryStyle{\jobname}{nomenc1.ist}
484 }%

```

2.4.7 Package bibtopic

```

485 % Pour le package bibtopic
486 \def\TD@btSect{%
487   \@ifnextchar[{\TD@btSect@opt}{\TD@btSect@noopt}}
488 \def\TD@btSect@opt[#1]#2{%
489   \TD@bibli@files{#2}%
490   \TD@bibli@style{#1}%
491   \TD@orig@btSect[#1]{#2}}
492 \def\TD@btSect@noopt#1{%
493   \TD@bibli@files{#1}%
494   \TD@orig@btSect{#1}}
495
496 \def\TD@bt@write@auxfile{%
497   \TD@printBblfile{\thebtauxfile}%
498   \TD@orig@bt@write@auxfile%
499 }%
500 \TD@PackagePostDivert{bibtopic}{%
501   \global\let\TD@bibli@bbl\relax%
502   \global\let\TD@biblio@rules@package\TD@biblio@rules@package@bibtopic%
503   \TD@switch{@bt@write@auxfile}%
504   \TD@printOut{btbbl.aux}%
505   \TD@printRebuildRule{bibtopic}%
506   \TD@docswitch{btSect}%
507 }%
508 </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	351, 361, 363, 364, 427, 429, 430
\@Gininclude@figtex	..... 400	\@twoclasseserror 174
\@Gininclude@rawtex	..... 377	\@unknownoptionerror 19
\@Gread@figtex	..... 419	
\@clsextension	..... 195	
\@for	..... 150, 207, 277, 283	A
\@ifnextchar	..... 261, 487	\AtBeginDocument 148
\@tempboxa	..... 348, 350,	\AtEndDocument 191

	B		
\boolean	42, 49		
	C		
\CurrentOption	31, 32		
	D		
debug (option)	<u>3</u>		
\documentclass	174, 176, 179		
	E		
extension (option)	<u>8</u>		
	F		
\FL@subfig@check	433		
\FL@subfig@mainfigname	406, 411		
	G		
\Gin@base	314		
\Gin@defaultbp	350, 351, 363, 364, 429, 430		
\Gin@ext	312, 314		
\Gin@llx	349, 362, 428		
\Gin@lly	349, 362, 428		
\Gin@urx	350, 363, 429		
\Gin@ury	351, 364, 430		
	I		
\isundefined	161, 208, 406		
	N		
\newboolean	3		
	O		
options:			
debug	<u>3</u>		
extension	<u>8</u>		
\OR	213		
	P		
\PackageError	175		
\PackageInfo	45		
	R		
\RequireFile	<u>78</u>		
	S		
\setboolean	6		
	T		
\TD@@@fileswith@ptions	<u>194</u>		
		\TD@bt@write@auxfile	496
		\TD@@fileswith@ptions	<u>194</u>
		\TD@ciinput	<u>244</u>
		\TD@ciinput@	<u>244</u>
		\TD@onefilewithoptions	<u>203</u>
		\TD@bibfile	277, 278
		\TD@bibli@bbl	271, 273, 276, 282, 501
		\TD@bibli@files	275, 289, 489, 493
		\TD@bibli@style	281, 293, 490
		\TD@biblio@rules@package	502
		\TD@biblio@rules@package@bibtopic	502
		\TD@bibliography	288
		\TD@bibliographystyle	292
		\TD@bibstyle	283, 284
		\TD@btSect	486
		\TD@btSect@noopt	487, 492
		\TD@btSect@opt	487, 488
		\TD@cmd	150, 151
		\TD@debug	48, 164, 167, 171, 206, 227, 236
		\TD@def@index	460
		\TD@depends	<u>183</u>
		\TD@dependsWarning	<u>183</u>
		\TD@divert	224, 226, 230, 233, 235, 239
		\TD@docswitch	139, 296, 369–373, 440–444, 457, 458, 474, 481, 506
		\TD@docswitchlist	139, 142, 143, 145, 150
		\TD@extention	10, 55, 56, 61, 64, 67, 70, 73, 76, 80, 83, 86, 89, 92, 95, 98, 99, 102, 105, 108, 111, 112, 115, 118, 121, 165, 168, 172
		\TD@FL@includerawtexgraphics	378
		\TD@FL@subfig@check	434
		\TD@Gin@getbase	310
		\TD@Gin@include@eps	317
		\TD@Gin@include@figtex	401
		\TD@Gin@include@pdf	327
		\TD@Gin@include@rawtex	389
		\TD@graphicspath	337
		\TD@Gread@eps	341
		\TD@Gread@figtex	420
		\TD@Gread@pdf	354
		\TD@info	<u>41</u> , 55, 133, 141, 149, 153, 229, 238
		\TD@local@new	125, 126, 136
		\TD@local@old	124, 126, 129, 135
		\TD@makeglossary	303
		\TD@makeindex	298

<code>\TD@missingDepends</code>	86, 89, 92, 95, 98, 99, 102, 105, 108, 111, 112, 115, 118, 121
.... 183 , 323, 333, 384, 395, 414	
<code>\TD@openout</code>	259
<code>\TD@openout@eq</code>	261, 262
<code>\TD@openout@noeq</code>	261, 266
<code>\TD@option@cmd</code>	15, 18, 22, 25
<code>\TD@option@debug</code>	4
<code>\TD@option@extension</code>	8
<code>\TD@option@name</code>	13, 14, 16
<code>\TD@option@split</code>	12, 32
<code>\TD@option@value</code>	24, 25
<code>\TD@orig@bt@write@auxfile</code>	498
<code>\TD@orig@fileswith@ptions</code>	198
<code>\TD@orig@iinput</code>	246
<code>\TD@orig@input@</code>	251
<code>\TD@orig@onefilewithoptions</code> ..	232
<code>\TD@orig@bibliography</code>	290
<code>\TD@orig@bibliographystyle</code>	294
<code>\TD@orig@btSect</code>	491, 494
<code>\TD@orig@def@index</code>	464
<code>\TD@orig@FL@includerawtexgraphics</code>	380
<code>\TD@orig@Gin@getbase</code>	311
<code>\TD@orig@Gin@include@eps</code>	319
<code>\TD@orig@Gin@include@figtex</code>	404
<code>\TD@orig@Gin@include@pdf</code>	329
<code>\TD@orig@Gin@include@rawtex</code>	391
<code>\TD@orig@graphicspath</code>	339
<code>\TD@orig@Gread@eps</code>	344
<code>\TD@orig@Gread@figtex</code>	423
<code>\TD@orig@Gread@pdf</code>	357
<code>\TD@orig@makeglossary</code>	306
<code>\TD@orig@makeindex</code>	301
<code>\TD@orig@openout</code>	259, 264, 268
<code>\TD@orig@PrintChanges</code>	454
<code>\TD@orig@printglossary</code>	478
<code>\TD@orig@PrintIndex</code>	449
<code>\TD@orig@printindex</code>	471
<code>\TD@orig@verbatiminput</code>	256
<code>\TD@package@option</code>	207–209, 212, 213, 215, 217
<code>\TD@PackagePostDivert</code> .	155 , 257, 367, 439, 456, 466, 473, 480, 500
<code>\TD@PackagePreDivert</code>	155
<code>\TD@poenout@eq</code>	259
<code>\TD@poenout@noeq</code>	259
<code>\TD@print</code>	57 , 61, 64, 67, 70, 73, 76, 80, 83, 86, 89, 92, 95, 98, 99, 102, 105, 108, 111, 112, 115, 118, 121
<code>\TD@printBblfile</code>	91 , 272, 497
<code>\TD@printBibfile</code>	85 , 278
<code>\TD@printBibstyle</code>	88 , 284, 286
<code>\TD@PrintChanges</code>	451
<code>\TD@printClass</code>	60 , 196
<code>\TD@printFig</code>	69 , 314
<code>\TD@printGlossary</code>	110 , 304
<code>\TD@printglossary</code>	476
<code>\TD@printGlossarySource</code> ..	114 , 305
<code>\TD@printGlossaryStyle</code> ..	120 , 452, 483
<code>\TD@printGlossaryTarget</code> ..	117 , 453, 477
<code>\TD@printGraphicspath</code> .	82 , 182, 338
<code>\TD@PrintIndex</code>	446
<code>\TD@printIndex</code>	97 , 299, 461
<code>\TD@printindex</code>	469
<code>\TD@printIndexSource</code> ..	101 , 300, 462
<code>\TD@printIndexStyle</code>	107 , 447
<code>\TD@printIndexTarget</code>	104 , 448, 463, 470
<code>\TD@printInput</code>	66 , 245, 249, 255
<code>\TD@printOut</code>	79 , 263, 267, 504
<code>\TD@printPackage</code>	63 , 181, 204
<code>\TD@printRebuildRule</code>	94 , 505
<code>\TD@printRequiredFile</code>	75 , 78, 324, 334, 385, 396, 415, 435
<code>\TD@printSubfig</code>	72 , 436
<code>\TD@switch</code>	123 , 151, 201, 202, 243, 252, 253, 258, 270, 297, 308, 309, 368, 467, 482, 503
<code>\TD@verbatiminput</code>	254
<code>\TD@warning</code>	35 , 130
<code>\TD@warningLine</code>	38 , 209, 217
<code>\TD@write</code>	54, 56, 58
<code>\TD@xextension</code>	161, 171, 172
<code>\thebtauxfile</code>	497
U	
<code>\usepackage</code>	177

Change History

v1.0.1		v1.1.0	
General: Version 1.0.1 at last . . .	1	General: Manage index/glossary . .	1
v1.0.2		Rewrite of the package	1
General: Add support for package		v1.2.0	
index.sty	1	General: Better management of	
		subfig files	1