

The texdepends package*

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2008/01/28

Abstract

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

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*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 options are managed by the same code.

```
30 \DeclareOption*{%
31   %\PackageWarningNoLine{texdepends}{Option \CurrentOption}%
32   \expandafter\TD@option@split\CurrentOption==\relax%
33 }%
```

So let's process options

```
34 \ProcessOptions
```

If the `extension` option is not used, we try to find ourselves the good extension based on TeX engine or mode.

```
35 \ifthenelse{\isundefined{\TD@extention}}{%
36   \PackageWarningNoLine{texdepends}{No extension given: detecting it}%
37   \RequirePackage{ifxetex,ifpdf}%
38   \ifxetex%
39     \PackageWarningNoLine{texdepends}{Detected XeTeX: using .pdf}%
40     \def\TD@extention{.pdf}%
41   \else\ifpdf%
42     \PackageWarningNoLine{texdepends}{Detected PDF mode: using .pdf}%
43     \def\TD@extention{.pdf}%
44   \else%
45     \PackageWarningNoLine{texdepends}{Detected DVI mode. Using .dvi}%
46     \def\TD@extention{.dvi}%
47   \fi\fi%
48 }{}%
```

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

```

```

\TD@printFig We need an XFig file
83 \def\TD@printFig#1{%
84 \TD@print{TD_\jobname\TD@extention _FIGURES\space += #1}%
85 }%

```

```

\TD@printSubfig We need a subfig file (see figlatex.dtx)
86 \def\TD@printSubfig#1{%
87 \TD@print{TD_\jobname\TD@extention _SUBFIGS\space += #1}%
88 }%

```

```

\TD@printRequiredFile A file is missing. texdepend will try to skip it this time, but it will be needed at
the next compilation
89 \def\TD@printRequiredFile#1{%
90 \TD@print{TD_\jobname\TD@extention _REQUIRED\space += #1}%
91 }%

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

\TD@printOut We write in a file
93 \def\TD@printOut#1{%
94 \TD@print{TD_\jobname\TD@extention _OUTPUTS\space += #1}%
95 }%

\TD@printGraphicspath We modify the graphicspath
96 \def\TD@printGraphicspath#1{%
97 \TD@print{TD_\jobname\TD@extention _GRAPHICSPATH\space := #1}%
98 }%

\TD@printBibfile We use a bibfile (*.bib)
99 \def\TD@printBibfile#1{%
100 \TD@print{TD_\jobname\TD@extention _BIBFILES\space += #1.bib}%
101 }%

\TD@printBibstyle We use a bibstyle file (*.bst)
102 \def\TD@printBibstyle#1{%
103 \TD@print{TD_\jobname\TD@extention _BIBSTYLES\space += #1.bst}%
104 }%

\TD@printBblfile We use a bibliography file (*.bbl)
105 \def\TD@printBblfile#1{%
106 \TD@print{TD_\jobname\TD@extention _BBLFILES\space += #1.bbl}%
107 }%

\TD@printRebuildRule We need a specific rule in the Makefile to check if a rebuild is needed
108 \def\TD@printRebuildRule#1{%
109 \TD@print{TD_\jobname\TD@extention _REBUILD_RULES\space += #1}%
110 }%

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

\TD@printIndexSource The index file filled by LATEX
115 \def\TD@printIndexSource#1#2{%
116 \TD@print{TD_\jobname\TD@extention _INDEX_#1_SRC\space = #2}%
117 }%

```

```

\TD@printIndexTarget And the index file read by LATEX after makeindex processing
118 \def\TD@printIndexTarget#1#2{%
119 \TD@print{TD_\jobname\TD@extention _INDEX_#1_TARGET\space = #2}%
120 }%

\TD@printIndexStyle The index style to be used with makeindex (never called for now)
121 \def\TD@printIndexStyle#1#2{%
122 \TD@print{TD_\jobname\TD@extention _INDEX_#1_STYLE\space = #2}%
123 }%

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

\TD@printGlossarySource The glossary file filled by LATEX
128 \def\TD@printGlossarySource#1#2{%
129 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_SRC\space = #2}%
130 }%

\TD@printGlossaryTarget And the glossary file read by LATEX after makeindex processing
131 \def\TD@printGlossaryTarget#1#2{%
132 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_TARGET\space = #2}%
133 }%

\TD@printGlossaryStyle The glossary style to be used with makeindex (never called for now)
134 \def\TD@printGlossaryStyle#1#2{%
135 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_STYLE\space = #2}%
136 }%

```

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)
137 \def\TD@switch#1{%
138 \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
139 \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
140 \ifx\TD@local@old\TD@local@new
141 \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
142 \else
143 \ifx\TD@local@old\relax
144 \TD@warning{Diverting empty macro '#1' \MessageBreak%
145 Probably a bug in texdepends.sty}%
146 \else
147 \TD@info{Diverting macro '#1'}%
148 \fi

```

```

149 \expandafter\let\csname TD@orig@#1\endcsname\TD@local@old%
150 \expandafter\let\csname#1\endcsname\TD@local@new%
151 \fi
152 }%

```

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

```

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

```

`\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 ;-)).

```

169 \def\TD@PackagePreDivert#1{%
170 \expandafter\def\csname TD@PackageStart@#1\endcsname ##1##2##3##4%
171 }%
172 \def\TD@PackagePostDivert#1{%
173 \expandafter\def\csname TD@PackageEnd@#1\endcsname ##1##2##3##4%
174 }%

```

2.2.4 Initialisation

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

```

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

```

And we write the first dependency (upon ourself)

```

182 \TD@printPackage{texdepends}

```

We write default graphicspath (is this really needed ?)

```
183 \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.

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

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).

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

```
204 \def\TD@@@onefilewithoptions#1[#2]#3#4{%
205   \TD@printPackage{#1}%
206   \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.

```
207   \TD@debug{Package '1' detected}
208   \@for\TD@package@option:=#2\do{%
209     \ifthenelse{\expandafter\isundefined\csname TD@option@\TD@package@option\endcsname}{
```



```

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

```

2.3.2 Tracking input files

```

\TD@@input \@input and \@input@ are diverted to track loaded files
\TD@input@
245 \def\TD@@input#1{%
246   \TD@printInput{#1}%
247   \TD@orig@@input{#1}}%
248 \def\TD@input@#1{%
249   \IfFileExists{#1}{%
250     \TD@printInput{#1}%
251   }{%
252     \TD@orig@@input@{#1}}%
253 \TD@switch{@input}%
254 \TD@switch{@input@}%

```

```

255 \def\TD@verbatiminput#1{%
256   \TD@printInput{#1}%
257   \TD@orig@verbatiminput{#1}}%
258 \TD@PackagePostDivert{verbatim}{%
259   \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 260 \let\TD@orig@openout\openout
261 \def\TD@openout#1{%
262   \@ifnextchar={\TD@openout@eq#1}{\TD@openout@noeq#1}}
263 \def\TD@openout@eq#1=#2.#3{%
264   \TD@printOut{#2.#3}%
265   \TD@orig@openout#1=#2.#3%
266 }%
267 \def\TD@openout@noeq#1#2.#3{%
268   \TD@printOut{#2.#3}%
269   \TD@orig@openout#1#2.#3%
270 }%
271 %\TD@switch{openout}

```

2.3.4 Tracking bibliography files

```

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

```

```

296 }%
297 \TD@docswitch{bibliography}%
298 \TD@switch{bibliographystyle}%

```

2.3.5 Glossary and index files

```

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

```

2.4 Diversion of package's macros

2.4.1 Package graphics

```

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

```

```

340 \TD@orig@graphicspath{#1}%
341 }%
342 \def\TD@Gread@eps#1{%
343 \IfFileExists{#1}{%
344   \PackageWarning{texdepends}{Gread File '#1' exists}%
345   \TD@orig@Gread@eps{#1}%
346 }{%
347   \PackageWarning{texdepends}{No '#1' file \MessageBreak
348     using 1 for graphic dimensions}%
349   \setbox\@tempboxa\hbox{\relax}%
350   \def\Gin@llx{1}\let\Gin@lly\Gin@llx
351   \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
352   \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
353 }%
354 }%
355 \def\TD@Gread@pdf#1{%
356 \IfFileExists{#1}{%
357   \PackageWarning{texdepends}{Gread File '#1' exists}%
358   \TD@orig@Gread@pdf{#1}%
359 }{%
360   \PackageWarning{texdepends}{No '#1' file \MessageBreak
361     using 1 for graphic dimensions}%
362   \setbox\@tempboxa\hbox{\relax}%
363   \def\Gin@llx{1}\let\Gin@lly\Gin@llx
364   \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
365   \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
366 }%
367 }%
368 \TD@PackagePostDivert{graphics}{%
369 \TD@switch{graphicspath}%
370 \TD@docswitch{Gin@getbase}%
371 \TD@docswitch{Gin@include@eps}%
372 \TD@docswitch{Gin@include@pdf}%
373 \TD@docswitch{Gread@eps}%
374 \TD@docswitch{Gread@pdf}%
375 }%

```

2.4.2 Package figlatex

```

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

```

```

388 }%
389
390 \def\TD@Gininclude@rawtex#1{%
391   \IfFileExists{#1}{%
392     \TD@orig@Gininclude@rawtex{#1}%
393   }{%
394     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
395       Skipping it this time (the last one however)\MessageBreak}%
396     \TD@missingDepends%
397     \TD@printRequiredFile{#1}%
398   }%
399 }%
400
401 % \Gininclude@figtex
402 \def\TD@Gininclude@figtex#1{%
403   \IfFileExists{#1}{%
404     \%PackageWarning{texdepends}{Gininclude File '#1' exists}%
405     \TD@orig@Gininclude@figtex{#1}%
406   }{%
407     \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
408       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
409         Skipping it this time (the last one however)\MessageBreak}%
410     }{%
411       \PackageWarning{texdepends}{SubFigure '#1' from
412         \FL@subfig@mainfigname needed\MessageBreak
413         Skipping it this time (the last one however)\MessageBreak}%
414     }
415     \TD@missingDepends%
416     \TD@printRequiredFile{#1}%
417   }%
418 }%
419 % \Gininclude@svgtex
420 \def\TD@Gininclude@svgtex#1{%
421   \IfFileExists{#1}{%
422     \%PackageWarning{texdepends}{Gininclude File '#1' exists}%
423     \TD@orig@Gininclude@svgtex{#1}%
424   }{%
425     \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
426       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
427         Skipping it this time (the last one however)\MessageBreak}%
428     }{%
429       \PackageWarning{texdepends}{SubFigure '#1' from
430         \FL@subfig@mainfigname needed\MessageBreak
431         Skipping it this time (the last one however)\MessageBreak}%
432     }
433     \TD@missingDepends%
434     \TD@printRequiredFile{#1}%
435   }%
436 }%
437

```

```

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

```

2.4.3 Package doc

```

483 \def\TD@PrintIndex{%
484   \TD@printIndexStyle{\jobname}{gind.ist}
485   \TD@printIndexTarget{\jobname}{\jobname.ind}

```

```

486 \TD@orig@PrintIndex%
487 }%
488 \def\TD@PrintChanges{%
489 \TD@printGlossaryStyle{\jobname}{gglo.ist}
490 \TD@printGlossaryTarget{\jobname}{\jobname.gls}
491 \TD@orig@PrintChanges%
492 }%
493 \TD@PackagePostDivert{doc}{-%
494 \TD@docswitch{PrintIndex}%
495 \TD@docswitch{PrintChanges}%
496 }%

```

2.4.4 Package index

```

497 \def\TD@def@index#1#2#3#4{%
498 \TD@printIndex{#2}%
499 \TD@printIndexSource{#2}{\jobname.#3}%
500 \TD@printIndexTarget{#2}{\jobname.#4}
501 \TD@orig@def@index{#1}{#2}{#3}{#4}%
502 }%
503 \TD@PackagePostDivert{index}{-%
504 \TD@switch{def@index}%
505 }%

```

2.4.5 Package makeidx

```

506 \def\TD@printindex{%
507 \TD@printIndexTarget{\jobname}{\jobname.ind}
508 \TD@orig@printindex%
509 }%
510 \TD@PackagePostDivert{makeidx}{-%
511 \TD@docswitch{printindex}%
512 }%

```

2.4.6 Package nomencl

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

```

513 \def\TD@printglossary{%
514 \TD@printGlossaryTarget{\jobname}{\jobname.gls}
515 \TD@orig@printglossary%
516 }%
517 \TD@PackagePostDivert{nomencl}{-%
518 \TD@docswitch{printglossary}%
519 \TD@switch{makeglossary}%
520 \TD@printGlossaryStyle{\jobname}{nomencl.ist}
521 }%

```

2.4.7 Package bibtopic

```

522 % Pour le package bibtopic
523 \def\TD@btSect{%

```

```

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

```

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Change History

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