

# The `texdepends` package<sup>\*</sup>

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## Abstract

This package allows L<sup>A</sup>T<sub>E</sub>X to automatically generate dependencies while compiling documents.

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# 1 Introduction

This package automatically generates dependancies on L<sup>A</sup>T<sub>E</sub>X 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 (env.) 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` (*env.*) 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         @unknoptionerror%  
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]%
```

All option are managed by the same code.

```
26   \fi  
27   \fi  
28   \fi  
29 }%
```

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

So lets 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{textdepends}{Detected XeTeX: using .pdf}%
40     \def\TD@extention{.pdf}%
41   \else\ifpdf%
42     \PackageWarningNoLine{textdepends}{Detected PDF mode: using .pdf}%
43     \def\TD@extention{.pdf}%
44   \else%
45     \PackageWarningNoLine{textdepends}{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 \RequirePackage{xstring}%
50 \newcommand{\TD@warning}[1]{%
51   \PackageWarningNoLine{texdepends}{#1}%
52 }
```

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

```
53 \newcommand{\TD@warningLine}[1]{%
54   \PackageWarning{texdepends}{#1}%
55 }
```

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

```
56 \newcommand{\TD@info}[1]{%
57   \ifthenelse{\boolean{TD@debug}}{%
58     \PackageWarningNoLine{texdepends}{#1}%
59   }{%
60     \PackageInfo{texdepends}{#1}%
61   }%
62 }
```

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

```
63 \newcommand{\TD@debug}[1]{%
64   \ifthenelse{\boolean{TD@debug}}{%
65     \PackageWarningNoLine{texdepends}{#1}%
66   }{%
67   }%
68 }
```

## 2.2.2 Writing dependencies

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

```
69 \newwrite\TD@write
70 \TD@info{Writing info in '\jobname\TD@extention.mk'}
71 \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

```
72 \def\TD@print#1{%
73   {%
74     % TODO: fix pb when #1 contains '#'
75     \%noexpandarg%
76     \StrSubstitute{#1}{{}}{\TD@write@text}%
77     \immediate\write\TD@write{\TD@write@text}%
78     \%immediate\write\TD@write{#1}%
79   }
80 }%
```

\TD@printClass We need a class

```
81 \def\TD@printClass#1{%
82   \TD@print{\jobname\TD@extention _INPUTS\space += #1.cls}%
83 }%
```

\TD@printPackage We need a package

```
84 \def\TD@printPackage#1{%
85   \TD@print{\jobname\TD@extention _INPUTS\space += #1.sty}%
86 }%
```

\TD@printInput We need a (L<sup>A</sup>T<sub>E</sub>X) file

```
87 \def\TD@printInput#1{%
88   \TD@print{\jobname\TD@extention _INPUTS\space += #1}%
89 }%
```

\TD@printFig We want to ignore a dependency

```
90 \def\TD@printNoDependsFile#1{%
91   \TD@print{\jobname\TD@extention _DEPENDS_EXCLUDE\space += #1}%
92 }%
```

\TD@printFig We need an XFig file

```
93 \def\TD@printFig#1{%
94   \TD@print{\jobname\TD@extention _FIGURES\space += #1}%
95 }%
```

\TD@printSubfig We need a subfig file (see figlatex.dtx)

```
96 \def\TD@printSubfig#1{%
97   \TD@print{\jobname\TD@extention _SUBFIGS\space += #1}%
98 }%
```

\TD@printRequiredFile A file is missing. `texdepend` will try to skip it this time, but it will be needed at the next compilation

```
99 \def\TD@printRequiredFile#1#2{%
100   \TD@print{\jobname\TD@extention _REQUIRED\space += #1}%
101 }%
```

```

\RequireFile LaTeX users can directly declare a dependency
102 \def\RequireFile#1{%
103   \TD@printRequiredFile{#1}{User}%
104 }%

\TD@printOut We write in a file
105 \def\TD@printOut#1{%
106   \TD@print{TD_\jobname\TD@extention _OUTPUTS\space += #1}%
107 }%

\TD@printGraphicspath We modify the graphicspath
108 \def\TD@printGraphicspath#1{%
109   \TD@print{TD_\jobname\TD@extention _GRAPHICSPATH\space := #1}%
110 }%

\TD@printBibfile We use a bibfile (*.bib)
111 \def\TD@printBibfile#1{%
112   \TD@print{TD_\jobname\TD@extention _BIBFILES\space += #1.bib}%
113 }%

\TD@printBibstyle We use a bibstyle file (*.bst)
114 \def\TD@printBibstyle#1{%
115   \TD@print{TD_\jobname\TD@extention _BIBSTYLES\space += #1.bst}%
116 }%

\TD@printBblfile We use a bibliography file (*.bbl)
117 \def\TD@printBblfile#1{%
118   \TD@print{TD_\jobname\TD@extention _BBLFILES\space += #1.bbl}%
119 }%

\TD@printRebuildRule We need a specific rule in the Makefile to check if a rebuild is needed
120 \def\TD@printRebuildRule#1{%
121   \TD@print{TD_\jobname\TD@extention _REBUILD_RULES\space += #1}%
122 }%

\TD@printIndex We use a new index
123 \def\TD@printIndex#1{%
124   \TD@print{TD_\jobname\TD@extention _INDEXES\space += INDEX}%
125   \TD@print{TD_\jobname\TD@extention _INDEXES_INDEX\space += #1}%
126 }%

\TD@printIndexSource The index file filled by LATEX
127 \def\TD@printIndexSource#1#2{%
128   \TD@print{TD_\jobname\TD@extention _INDEX_#1_SRC\space = #2}%
129 }%

\TD@printIndexTarget And the index file read by LATEX after makeindex processing
130 \def\TD@printIndexTarget#1#2{%
131   \TD@print{TD_\jobname\TD@extention _INDEX_#1_TARGET\space = #2}%
132 }%

```

```
\TD@printIndexStyle The index style to be used with makeindex (never called for now)
133 \def\TD@printIndexStyle#1#2{%
134   \TD@print{TD_\jobname\TD@extention _INDEX_#1_STYLE\space = #2}%
135 }%
```

`\TD@printGlossary` And the same things for glossary. Its name

```
136 \def\TD@printGlossary#1{%
137   \TD@print{TD_\jobname\TD@extention _INDEXES += GLOSS}%
138   \TD@print{TD_\jobname\TD@extention _INDEXES_GLOSS\space += #1}%
139 }%
```

`\TD@printGlossarySource` The glossary file filled by L<sup>A</sup>T<sub>E</sub>X

```
140 \def\TD@printGlossarySource#1#2{%
141   \TD@print{TD_\jobname\TD@extention _GLOSS_#1_SRC\space = #2}%
142 }%
```

`\TD@printGlossaryTarget` And the glossary file read by L<sup>A</sup>T<sub>E</sub>X after makeindex processing

```
143 \def\TD@printGlossaryTarget#1#2{%
144   \TD@print{TD_\jobname\TD@extention _GLOSS_#1_TARGET\space = #2}%
145 }%
```

`\TD@printGlossaryStyle` The glossary style to be used with makeindex (never called for now)

```
146 \def\TD@printGlossaryStyle#1#2{%
147   \TD@print{TD_\jobname\TD@extention _GLOSS_#1_STYLE\space = #2}%
148 }%
```

### 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)

```
149 \def\TD@switch#1{%
150   \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
151   \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
152   \ifx\TD@local@old\TD@local@new
153     \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
154   \else
155     \ifx\TD@local@old\relax
156       \TD@warning{Diverting empty macro '#1' \MessageBreak%
157                   Probably a bug in texdepends.sty}%
158     \else
159       \TD@info{Diverting macro '#1'}%
160     \fi
161   \expandafter\let\csname TD@orig@#1\endcsname\TD@local@old%
162   \expandafter\let\csname#1\endcsname\TD@local@new%
163   \fi
164 }%
```

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

```
165 \def\TD@docswitchlist{}%
166 \def\TD@docswitch#1{%
167   \TD@info{Registering macro '#1' for diversion}%
168   \ifx\TD@docswitchlist\empty%
```

```

169      \xdef\TD@docswitchlist{#1}%
170  \else%
171      \xdef\TD@docswitchlist{\TD@docswitchlist,#1}%
172  \fi%
173 }%
174 \AtBeginDocument{%
175   \TD@info{Diverting registered macros...}%
176   \@for\TD@cmd:=\TD@docswitchlist\do{%
177     \TD@switch{\TD@cmd}%
178   }%
179   \TD@info{Divertions done}%
180 }%

```

\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<sup>A</sup>T<sub>E</sub>X macro, ie package name, options, and the two remaining ;-)).

```

181 \def\TD@PackagePreDivert#1{%
182   \expandafter\def\csname TD@PackageStart##1\endcsname ##1##2##3##4%
183 }%
184 \def\TD@PackagePostDivert#1{%
185   \expandafter\def\csname TD@PackageEnd##1\endcsname ##1##2##3##4%
186 }%

```

#### 2.2.4 Initialisation

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

```

187 \ifx\documentclass\@twoclasseserror
188   \PackageError{texdepends}{texdepends needs to be loaded BEFORE
189   \string\documentclass \MessageBreak
190 Use \string\RequirePackage\space instead of \string\usepackage
191 \MessageBreak as the later is not allowed before
192 \string\documentclass}
193 \fi

```

And we write the first dependency (upon ourself)

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

We write default `graphicspath` (is this really needed ?)

```
195 \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.

```

196 \def\TD@depends{}%
197 \def\TD@dependsWarning{%
198   \PackageWarningNoLine{texdepends}{Figure(s) missing. Check
199   dependencies again}%
200 }%
201 \def\TD@missingDepends{%
202   \global\let\TD@depends\TD@dependsWarning%

```

```

203 }%
204 \AtEndDocument{%
205   \TD@depends%
206 }%

```

## 2.3 Diversion of L<sup>A</sup>T<sub>E</sub>X 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).

```

207 \def\TD@@fileswith@pti@ns#1[#2]#3[#4]{%
208   \ifx#1\@clsextension
209     \TD@printClass{#3}
210   \fi
211   \TD@orig@@fileswith@pti@ns{#1}[#2]{#3}[#4]%
212 }%
213 \let\TD@@fileswith@pti@ns\TD@@fileswith@pti@ns
214 \TD@switch{@fileswith@pti@ns}%
215 \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

```

216 \def\TD@@onefilewithoptions#1[#2][#3]#4{%
217   \TD@printPackage{#1}%
218   \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<sup>A</sup>T<sub>E</sub>X does not know it. So we try to honor the `debug` option.

```

219   \TD@debug{Package '#1' detected}
220   \for\TD@package@option:=#2\do{%
221     \ifthenelse{\expandafter\isundefined\csname TD@option@\TD@package@option\endcsname}{%
222       \TD@warningLine{Ignoring unknown option '\TD@package@option'}%
223     }{%
224       \ifthenelse{%
225         \equal{\TD@package@option}{debug}%
226         \%OR\equal{\TD@package@option}{debug}%
227       }{%
228         \csname TD@option@\TD@package@option\endcsname%
229       }{%
230         \TD@warningLine{Ignoring option '\TD@package@option'}%
231         \MessageBreak #1 already loaded
232       }%
233     }%
234   }%
235 }%
236 }%
237 \expandafter\let\expandafter\TD@divert
238 \csname TD@PackageStart@#1\endcsname
239 \ifx\TD@divert\relax
240   \TD@debug{No preamble for package #1}%
241 \else

```

```

242      \TD@info{Preamble for package #1}
243      \TD@divert{#1}{#2}{#3}{#4}%
244      \fi
245      \TD@orig@onefilewithoptions{#1}[#2][#3]{#4}%
246      \expandafter\let\expandafter\TD@divert
247      \csname TD@PackageEnd@#1\endcsname
248      \ifx\TD@divert\relax
249          \TD@debug{No postamble for package #1}
250      \else
251          \TD@info{Postamble for package #1}
252          \TD@divert{#1}{#2}{#3}{#4}%
253      \fi
254  }%
255 }%
256 \TD@switch{@onefilewithoptions}%

```

### 2.3.2 Tracking input files

```

\TD@@iinput \C@iinput and \C@input@ are diverted to track loaded files
\TD@@iinput@ 257 \def\TD@@iinput#1{%
258     \TD@printInput{#1}%
259     \TD@orig@iinput{#1}%
260 \def\TD@@input@#1{%
261     \IfFileExists{#1}{%
262         \TD@printInput{#1}%
263     }{}%
264     \TD@orig@@input@{#1}%
265 \TD@switch{@iinput}%
266 \TD@switch{@input@}%
267 \def\TD@verbatiminput#1{%
268     \TD@printInput{#1}%
269     \TD@orig@verbatiminput{#1}%
270 \TD@PackagePostDivert{verbatim}%
271     \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 272 \let\TD@orig@openout\openout
273 \def\TD@openout#1{%
274     \C@ifnextchar={\TD@openout@eq#1}{\TD@openout@noeq#1}%
275 \def\TD@openout@eq#1=#2.#3{%
276     \TD@printOut{#2.#3}%
277     \TD@orig@openout#1=#2.#3%
278 }%
279 \def\TD@openout@noeq#1#2.#3{%
280     \TD@printOut{#2.#3}%
281     \TD@orig@openout#1#2.#3%
282 }%
283 \% \TD@switch{openout}

```

### 2.3.4 Tracking bibliography files

```

284 \def\TD@bibli@bb{\%
285     \TD@printBblfile{\jobname}%
286     \global\let\TD@bibli@bb\relax%
287 }%
288 \def\TD@bibli@files#1{%
289     \TD@bibli@bb{%
290     \@for\TD@bibfile:=#1\do{%
291         \TD@printBibfile{\TD@bibfile}%
292     }%
293 }%
294 \def\TD@bibli@style#1{%
295     \TD@bibli@bb{%
296     \%@\for\TD@bibstyle:=#1\do{%
297         \TD@printBibstyle{\TD@bibstyle}%
298     }%
299     \TD@printBibstyle{#1}%
300 }%
301 \def\TD@bibliography#1{%
302     \TD@bibli@files{#1}%
303     \TD@orig@bibliography{#1}%
304 }%
305 \def\TD@bibliographystyle#1{%
306     \TD@bibli@style{#1}%
307     \TD@orig@bibliographystyle{#1}%
308 }%
309 \TD@docswitch{bibliography}%
310 \TD@switch{bibliographystyle}%

```

### 2.3.5 Glossary and index files

```

311 \def\TD@makeindex{%
312     \TD@printIndex{\jobname}%
313     \TD@printIndexSource{\jobname}{\jobname.idx}%
314     \TD@orig@makeindex%
315 }%
316 \def\TD@makeglossary{%
317     \TD@printGlossary{\jobname}%
318     \TD@printGlossarySource{\jobname}{\jobname.glo}%
319     \TD@orig@makeglossary%
320 }%
321 \TD@switch{makeindex}%
322 \TD@switch{makeglossary}%

```

## 2.4 Diversion of package's macros

### 2.4.1 Package graphics

```

323 \def\TD@Gin@getbase#1{%
324     \TD@orig@Gin@getbase{#1}%
325     \ifx\Gin@ext\relax%
326     \else%
327         \TD@printFig{\Gin@base\Gin@ext}%
328     \fi%
329 }%
330 \def\TD@Ginclude@eps#1{%
331     \IfFileExists{#1}{}%

```

```

332     \TD@orig@Ginclude@eps{#1}%
333 }{%
334     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
335         Skipping it this time (the last one however)\MessageBreak}%
336     \TD@missingDepends%
337     \TD@printRequiredFile{#1}{eps}%
338 }%
339 }%
340 \def\TD@Ginclude@pdf#1{%
341   \IfFileExists{#1}{%
342     \TD@orig@Ginclude@pdf{#1}%
343   }{%
344     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
345         Skipping it this time (the last one however)\MessageBreak}%
346     \TD@missingDepends%
347     \TD@printRequiredFile{#1}{pdf}%
348   }%
349 }%
350 \def\TD@graphicspath#1{%
351   \TD@printGraphicspath{#1}%
352   \TD@orig@graphicspath{#1}%
353 }%
354 \def\TD@Gread@eps#1{%
355   \IfFileExists{#1}{%
356     \% \PackageWarning{texdepends}{Gread File '#1' exists}%
357     \TD@orig@Gread@eps{#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 \def\TD@Gread@pdf#1{%
368   \IfFileExists{#1}{%
369     \% \PackageWarning{texdepends}{Gread File '#1' exists}%
370     \TD@orig@Gread@pdf{#1}%
371   }{%
372     \PackageWarning{texdepends}{No '#1' file \MessageBreak
373         using 1 for graphic dimensions}%
374     \setbox@tempboxa\hbox{\relax}%
375     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
376     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
377     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
378   }%
379 }%
380 \TD@PackagePostDivert{graphics}{%
381   \TD@switch{graphicspath}%
382   \TD@docswitch{Gin@getbase}%
383   \TD@docswitch{Ginclude@eps}%
384   \TD@docswitch{Ginclude@pdf}%
385   \TD@docswitch{Gread@eps}%

```

```

386   \TD@docswitch{Gread@pdf}%
387 }%
388 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
389 % We do not want to fail when trying to load a missing subfig.
390 % \Ginclude@rawtex
391 \def\TDCF@includerawtexgraphics[#1]#2{%
392   \IfFileExists{#2}{%
393     \TD@orig@FL@includerawtexgraphics[#1]{#2}%
394   }{%
395     \PackageWarning{texdepends}{Figure '#2' needed\MessageBreak
396       Skipping it this time (the last one however)\MessageBreak}%
397     \TD@missingDepends%
398     \TD@printRequiredFile{#2}{rawtexgraphics}%
399   }%
400 }%
401
402 \def\TD@Ginclude@rawtex#1{%
403   \IfFileExists{#1}{%
404     \TD@orig@Ginclude@rawtex{#1}%
405   }{%
406     \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
407       Skipping it this time (the last one however)\MessageBreak}%
408     \TD@missingDepends%
409     \TD@printRequiredFile{#1}{rawtex}%
410   }%
411 }%
412
413 % \Ginclude@figtex
414 \def\TD@Ginclude@figtex#1{%
415   \IfFileExists{#1}{%
416     \% \PackageWarning{texdepends}{Ginclude File '#1' exists}%
417     \TD@orig@Ginclude@figtex{#1}%
418   }{%
419     \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
420       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
421         Skipping it this time (the last one however)\MessageBreak}%
422     }{%
423       \PackageWarning{texdepends}{SubFigure '#1' from
424         \FL@subfig@mainfigname needed\MessageBreak
425         Skipping it this time (the last one however)\MessageBreak}%
426     }
427     \TD@missingDepends%
428     \TD@printRequiredFile{#1}{figtex}%
429   }%
430 }%
431 % \Ginclude@svgtex
432 \def\TD@Ginclude@svgtex#1{%
433   \IfFileExists{#1}{%
434     \% \PackageWarning{texdepends}{Ginclude File '#1' exists}%
435     \TD@orig@Ginclude@svgtex{#1}%
436   }{%
437     \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%

```

```

438      \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
439          Skipping it this time (the last one however)\MessageBreak}%
440 }{%
441     \PackageWarning{texdepends}{SubFigure '#1' from
442         \FL@subfig@\mainfigname needed\MessageBreak
443         Skipping it this time (the last one however)\MessageBreak}%
444 }
445 \TD@missingDepends%
446 \TD@printRequiredFile{#1}{svgtex}%
447 }%
448 }%
449
450
451 % \Gread@figtex
452 \def\TD@Gread@figtex#1{%
453   \IfFileExists{#1}{%
454     \% \PackageWarning{texdepends}{Gread File '#1' exists}%
455     \TD@orig@Gread@figtex{#1}%
456   }{%
457     \PackageWarning{texdepends}{No '#1' file \MessageBreak
458         using 1 for graphic dimensions}%
459     \setbox@\tempboxa\hbox{\relax}%
460     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
461     \Gin@defaultbp\Gin@curx{\wd\@tempboxa}%
462     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
463   }%
464 }%
465
466 % \Gread@svgtex
467 \def\TD@Gread@svgtex#1{%
468   \IfFileExists{#1}{%
469     \% \PackageWarning{texdepends}{Gread File '#1' exists}%
470     \TD@orig@Gread@svgtex{#1}%
471   }{%
472     \PackageWarning{texdepends}{No '#1' file \MessageBreak
473         using 1 for graphic dimensions}%
474     \setbox@\tempboxa\hbox{\relax}%
475     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
476     \Gin@defaultbp\Gin@curx{\wd\@tempboxa}%
477     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
478   }%
479 }%
480 % \FL@subfig@check
481 \def\TD@FL@subfig@check#1{%
482   \TD@printRequiredFile{#1}{subfigcheck}%
483   \TD@printSubfig{#1}%
484 }%
485 %
486 \TD@PackagePostDivert{figlatex}{%
487   \TD@docswitch{\FL@incluaderawtexgraphics}%
488   \TD@docswitch{\Ginclude@rawtex}%
489   \TD@docswitch{\Ginclude@figtex}%
490   \TD@docswitch{\Ginclude@svgtex}%
491   \TD@docswitch{\Gread@figtex}%

```

```

492   \TD@docswitch{Gread@svgtex}%
493   \TD@docswitch{FL@subfig@check}%
494 }%

```

#### 2.4.3 Package doc

```

495 \def\TD@PrintIndex{%
496   \TD@printIndexStyle{\jobname}{gind.ist}%
497   \TD@printIndexTarget{\jobname}{\jobname.ind}%
498   \TD@orig@PrintIndex%
499 }%
500 \def\TD@PrintChanges{%
501   \TD@printGlossaryStyle{\jobname}{gglo.ist}%
502   \TD@printGlossaryTarget{\jobname}{\jobname.gls}%
503   \TD@orig@PrintChanges%
504 }%
505 \TD@PackagePostDivert{doc}{%
506   \TD@docswitch{PrintIndex}%
507   \TD@docswitch{PrintChanges}%
508 }%

```

#### 2.4.4 Package index

```

509 \def\TD@def@index#1#2#3#4{%
510   \TD@printIndex{#2}%
511   \TD@printIndexSource{#2}{\jobname.#3}%
512   \TD@printIndexTarget{#2}{\jobname.#4}%
513   \TD@orig@def@index{#1}{#2}{#3}{#4}%
514 }%
515 \TD@PackagePostDivert{index}{%
516   \TD@switch{def@index}%
517 }%

```

#### 2.4.5 Package makeidx

```

518 \def\TD@printindex{%
519   \TD@printIndexTarget{\jobname}{\jobname.ind}%
520   \TD@orig@printindex%
521 }%
522 \TD@PackagePostDivert{makeidx}{%
523   \TD@docswitch{printindex}%
524 }%

```

#### 2.4.6 Package nomencl

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

```

525 \def\TD@printglossary{%
526   \TD@printGlossaryTarget{\jobname}{\jobname.gls}%
527   \TD@orig@printglossary%
528 }%
529 \TD@PackagePostDivert{nomencl}{%
530   \TD@docswitch{printglossary}%
531   \TD@switch{maketitle}%
532   \TD@printGlossaryStyle{\jobname}{nomencl.ist}%
533 }%

```

#### 2.4.7 Package bibtopic

```
534 % For the bibtopic package
535 \def\TD@btSect{%
536   \@ifnextchar[{\TD@btSect@opt}{\TD@btSect@noopt}}
537 \def\TD@btSect@opt[#1]{%
538   \TD@bibli@files{#2}%
539   \TD@bibli@style{#1}%
540   \TD@orig@btSect[#1]{#2}%
541 \def\TD@btSect@noopt#1{%
542   \TD@bibli@files{#1}%
543   \TD@orig@btSect{#1}%
544
545 \def\TD@@bt@write@auxfile{%
546   \TD@printBblfile{\thebtauxfile}%
547   \TD@orig@@bt@write@auxfile%
548 }%
549 \TD@PackagePostDivert{bibtopic}{%
550   \global\let\TD@bibli@bbl\relax%
551   \global\let\TD@biblio@rules@package\TD@biblio@rules@package@bibtopic%
552   \TD@switch{@bt@write@auxfile}%
553   \TD@printOut{btbbl.aux}%
554   \TD@printRebuildRule{bibtopic}%
555   \TD@docswitch{btSect}%
556 }%
```

#### 2.4.8 Package comment

```
557 % For the comment package, the |comment.cut| file must not be used as
558 % a dependency: it is read and written several times during a compilation.
559 \TD@PackagePostDivert{comment}{%
560   \TD@printNoDependsFile{comment.cut}%
561 }%
562 </package>
```

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## Change History

v1.0.1

General: Version 1.0.1 at last ... 1

v1.0.2

General: Add support for package

	index.sty . . . . .	1	v2.3.0
v1.1.0	General: Manage index/glossary .	1	General: ignore comment.cut file
	Rewrite of the package . . . . .	1	from the comment package . . . 1
v1.2.0	General: Better management of subfig files . . . . .	1	v2.4.1
v1.3.0	General: Management of svg files	1	General: No changes in texdepends.dtx . . . . .
v2.2.5	General: No changes in texdepends.dtx . . . . .	1	v2.4.2
			General: Replace // by / in paths 1
			v2.4.3
			General: No changes in texdepends.dtx . . . . .
			1