

# The texdepends package\*

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2026/06/13

## Abstract

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

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\*This file has version number v2.4.4, last revised 2026/06/13.

# 1 Introduction

This package automatically generates dependencies 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 dependencies.

## 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 extension #1}
```

```
10  \def\TD@extension{#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
```

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 \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{TD_\jobname\TD@extention _INPUTS\space += #1.cls}%
83 }%
```

`\TD@printPackage` We need a package

```
84 \def\TD@printPackage#1{%
85   \TD@print{TD_\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{TD_\jobname\TD@extention _INPUTS\space += #1}%
89 }%
```

`\TD@printFig` We want to ignore a dependency

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

`\TD@printFig` We need an XFig file

```
93 \def\TD@printFig#1{%
94   \TD@print{TD_\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{TD_\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{TD_\jobname\TD@extention _REQUIRED\space += #1}%
101 }%
```

```

\RequireFile LaTeX users can directly declare a dependencie
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 LATEX
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 LATEX after makeindex or makeglossaries processing
143 \def\TD@printGlossaryTarget#1#2{%
144   \TD@print{TD_\jobname\TD@extention _GLOSS_#1_TARGET\space = #2}%
145 }%

\TD@printGlossaryProgVar Makefile variable name with the program used to process the glossary. Default to
makeindex if this variable is not defined
146 \def\TD@printGlossaryProgVar#1#2{%
147   \TD@print{TD_\jobname\TD@extention _GLOSS_#1_PROGVAR\space = #2}%
148 }%

\TD@printGlossaryStyle The glossary style to be used with makeindex (never called for now)
149 \def\TD@printGlossaryStyle#1#2{%
150   \TD@print{TD_\jobname\TD@extention _GLOSS_#1_STYLE\space = #2}%
151 }%

```

### 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 severall times with the same argument)
152 \def\TD@switch#1{%
153   \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
154   \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
155   \ifx\TD@local@old\TD@local@new
156     \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
157   \else
158     \ifx\TD@local@old\relax
159       \TD@warning{Diverting empty macro '#1' \MessageBreak%
160         Probably a bug in texdepends.sty}%
161     \else
162       \TD@info{Diverting macro '#1'}%
163     \fi
164     \expandafter\let\csname TD@orig@#1\endcsname\TD@local@old%
165     \expandafter\let\csname#1\endcsname\TD@local@new%
166   \fi
167 }%

```

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

```

168 \def\TD@docswitchlist{%
169 \def\TD@docswitch#1{%
170   \TD@info{Registering macro '#1' for diversion}%
171   \ifx\TD@docswitchlist\@empty%
172     \xdef\TD@docswitchlist{#1}%
173   \else%
174     \xdef\TD@docswitchlist{\TD@docswitchlist,#1}%
175   \fi%
176 }%
177 \AtBeginDocument{%
178   \TD@info{Diverting registered macros...}%
179   \@for\TD@cmd:=\TD@docswitchlist\do{%
180     \TD@switch{\TD@cmd}%
181   }%
182   \TD@info{Divertions done}%
183 }%
```

`\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 ;-)).

```

184 \def\TD@PackagePreDivert#1{%
185   \expandafter\def\csname TD@PackageStart@#1\endcsname ##1##2##3##4%
186 }%
187 \def\TD@PackagePostDivert#1{%
188   \expandafter\def\csname TD@PackageEnd@#1\endcsname ##1##2##3##4%
189 }%
```

## 2.2.4 Initialisation

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

```

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

And we write the first dependency (upon ourself)

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

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

```
198 \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.

```
199 \def\TD@depends{%
```

```

200 \def\TD@dependsWarning{%
201   \PackageWarningNoLine{texdepends}{Figure(s) missing. Check
202     dependencies again}%
203 }%
204 \def\TD@missingDepends{%
205   \global\let\TD@depends\TD@dependsWarning%
206 }%
207 \AtEndDocument{%
208   \TD@depends%
209 }%

```

## 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 class loading. Package are tracked with an other macro (see just after).

```

210 \def\TD@@fileswith@pti@ns#1[#2]#3[#4]{%
211   \ifx#1\@clsextension
212     \TD@printClass{#3}
213   \fi
214   \TD@orig@@fileswith@pti@ns{#1}#2}{#3}#4}%
215 }%
216 \let\TD@@@fileswith@pti@ns\TD@@fileswith@pti@ns
217 \TD@switch{fileswith@pti@ns}%
218 \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

```

219 \def\TD@@onefilewithoptions#1[#2]#3#4{%
220   \TD@printPackage{#1}%
221   \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.

```

222   \TD@debug{Package '#1' detected}
223   \@for\TD@package@option:=#2\do{%
224     \ifthenelse{\expandafter\isundefined\csname TD@option@\TD@package@option\endcsname}{
225       \TD@warningLine{Ignoring unknown option '\TD@package@option'}
226     }{
227       \ifthenelse{%
228         \equal{\TD@package@option}{debug}%
229         %\OR\equal{\TD@package@option}{debug}%
230       }{
231         \csname TD@option@\TD@package@option\endcsname%
232       }{
233         \TD@warningLine{Ignoring option '\TD@package@option'}
234         \MessageBreak #1 already loaded
235       }
236     }
237   }
238 }

```

```

239 }{%
240   \expandafter\let\expandafter\TD@divert
241   \csname TD@PackageStart@#1\endcsname
242   \ifx\TD@divert\relax
243     \TD@debug{No preamble for package #1}
244   \else
245     \TD@info{Preamble for package #1}
246     \TD@divert{#1}{#2}{#3}{#4}%
247   \fi
248   \TD@orig@@onefilewithoptions{#1}[#2][#3]{#4}%
249   \expandafter\let\expandafter\TD@divert
250   \csname TD@PackageEnd@#1\endcsname
251   \ifx\TD@divert\relax
252     \TD@debug{No postamble for package #1}
253   \else
254     \TD@info{Postamble for package #1}
255     \TD@divert{#1}{#2}{#3}{#4}%
256   \fi
257 }%
258 }%
259 \TD@switch{@onefilewithoptions}%

```

### 2.3.2 Tracking input files

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

```

\tD@input@ 260 \def\TD@@iinput#1{%
261   \TD@printInput{#1}%
262   \TD@orig@@iinput{#1}}%
263 \def\TD@input@#1{%
264   \IfFileExists{#1}{%
265     \TD@printInput{#1}%
266   }{}%
267   \TD@orig@@input@{#1}}%
268 \TD@switch{@iinput}%
269 \TD@switch{@input@}%
270 \def\TD@verbatiminput#1{%
271   \TD@printInput{#1}%
272   \TD@orig@verbatiminput{#1}}%
273 \TD@PackagePostDivert{verbatim}{%
274   \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 someone has ideas...

```

\tD@openout@noeq 275 \let\TD@orig@openout\openout
276 \def\TD@openout#1{%
277   \ifnextchar={\TD@openout@eq#1}{\TD@openout@noeq#1}}
278 \def\TD@openout@eq#1=#2.#3{%
279   \TD@printOut{#2.#3}%
280   \TD@orig@openout#1=#2.#3%
281 }%
282 \def\TD@openout@noeq#1#2.#3{%

```

```

283 \TD@printOut{#2.#3}%
284 \TD@orig@openout#1#2.#3%
285 }%
286 %\TD@switch{openout}

```

### 2.3.4 Tracking bibliography files

```

287 \def\TD@bibli@bbl{%
288     \TD@printBblfile{\jobname}%
289     \global\let\TD@bibli@bbl\relax%
290 }%
291 \def\TD@bibli@files#1{%
292     \TD@bibli@bbl%
293     \@for\TD@bibfile:=#1\do{%
294         \TD@printBibfile{\TD@bibfile}%
295     }%
296 }
297 \def\TD@bibli@style#1{%
298     \TD@bibli@bbl%
299     \@for\TD@bibstyle:=#1\do{%
300         % \TD@printBibstyle{\TD@bibstyle}%
301     }%
302     \TD@printBibstyle{#1}%
303 }
304 \def\TD@bibliography#1{%
305     \TD@bibli@files{#1}%
306     \TD@orig@bibliography{#1}%
307 }%
308 \def\TD@bibliographystyle#1{%
309     \TD@bibli@style{#1}%
310     \TD@orig@bibliographystyle{#1}%
311 }%
312 \TD@docswitch{bibliography}%
313 \TD@switch{bibliographystyle}%

```

### 2.3.5 Glossary and index files

```

314 \def\TD@makeindex{%
315     \TD@printIndex{\jobname}%
316     \TD@printIndexSource{\jobname}{\jobname.idx}%
317     \TD@orig@makeindex%
318 }%
319 \def\TD@makeglossary{%
320     \TD@printGlossary{\jobname}%
321     \TD@printGlossarySource{\jobname}{\jobname.glo}%
322     \TD@orig@makeglossary%
323 }%
324 \TD@switch{makeindex}%
325 \TD@switch{makeglossary}%

```

## 2.4 Diversion of package's macros

### 2.4.1 Package graphics

```

326 \def\TD@Gin@getbase#1{%
327     \TD@orig@Gin@getbase{#1}%

```

```

328 \ifx\Gin@ext\relax%
329 \else%
330 \TD@printFig{\Gin@base\Gin@ext}%
331 \fi%
332 }%
333 \def\TD@Ginclude@eps#1{%
334 \IfFileExists{#1}{%
335 \TD@orig@Ginclude@eps{#1}%
336 }{%
337 \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
338 Skipping it this time (the last one however)\MessageBreak}%
339 \TD@missingDepends%
340 \TD@printRequiredFile{#1}{eps}%
341 }%
342 }%
343 \def\TD@Ginclude@pdf#1{%
344 \IfFileExists{#1}{%
345 \TD@orig@Ginclude@pdf{#1}%
346 }{%
347 \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
348 Skipping it this time (the last one however)\MessageBreak}%
349 \TD@missingDepends%
350 \TD@printRequiredFile{#1}{pdf}%
351 }%
352 }%
353 \def\TD@graphicspath#1{%
354 \TD@printGraphicspath{#1}%
355 \TD@orig@graphicspath{#1}%
356 }%
357 \def\TD@Gread@eps#1{%
358 \IfFileExists{#1}{%
359 \%PackageWarning{texdepends}{Gread File '#1' exists}%
360 \TD@orig@Gread@eps{#1}%
361 }{%
362 \PackageWarning{texdepends}{No '#1' file \MessageBreak
363 using 1 for graphic dimensions}%
364 \setbox\@tempboxa\hbox{\relax}%
365 \def\Gin@llx{1}\let\Gin@lly\Gin@llx
366 \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
367 \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
368 }%
369 }%
370 \def\TD@Gread@pdf#1{%
371 \IfFileExists{#1}{%
372 \%PackageWarning{texdepends}{Gread File '#1' exists}%
373 \TD@orig@Gread@pdf{#1}%
374 }{%
375 \PackageWarning{texdepends}{No '#1' file \MessageBreak
376 using 1 for graphic dimensions}%
377 \setbox\@tempboxa\hbox{\relax}%
378 \def\Gin@llx{1}\let\Gin@lly\Gin@llx
379 \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
380 \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
381 }%

```

```

382 }%
383 \TD@PackagePostDivert{graphics}{%
384   \TD@switch{graphicspath}%
385   \TD@docswitch{Gin@getbase}%
386   \TD@docswitch{Gin@include@eps}%
387   \TD@docswitch{Gin@include@pdf}%
388   \TD@docswitch{Gread@eps}%
389   \TD@docswitch{Gread@pdf}%
390 }%

```

## 2.4.2 Package figlatex

```

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

```

```

434 % \@Gininclude@svgtex
435 \def\TD@Gininclude@svgtex#1{%
436   \IfFileExists{#1}{%
437     %\PackageWarning{texdepends}{Gininclude File '#1' exists}%
438     \TD@orig@Gininclude@svgtex{#1}%
439   }{%
440     \ifthenelse{\isundefined{\FL@subfig@mainfigname}}{%
441       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
442         Skipping it this time (the last one however)\MessageBreak}%
443     }{%
444       \PackageWarning{texdepends}{SubFigure '#1' from
445         \FL@subfig@mainfigname needed\MessageBreak
446         Skipping it this time (the last one however)\MessageBreak}%
447     }
448     \TD@missingDepends%
449     \TD@printRequiredFile{#1}{svgtex}%
450   }%
451 }%
452
453
454 % \@Gread@figtex
455 \def\TD@Gread@figtex#1{%
456   \IfFileExists{#1}{%
457     %\PackageWarning{texdepends}{Gread File '#1' exists}%
458     \TD@orig@Gread@figtex{#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
469 % \@Gread@svgtex
470 \def\TD@Gread@svgtex#1{%
471   \IfFileExists{#1}{%
472     %\PackageWarning{texdepends}{Gread File '#1' exists}%
473     \TD@orig@Gread@svgtex{#1}%
474   }{%
475     \PackageWarning{texdepends}{No '#1' file \MessageBreak
476       using 1 for graphic dimensions}%
477     \setbox\@tempboxa\hbox{\relax}%
478     \def\Gin@llx{1}\let\Gin@lly\Gin@llx
479     \Gin@defaultbp\Gin@urx{\wd\@tempboxa}%
480     \Gin@defaultbp\Gin@ury{\ht\@tempboxa}%
481   }%
482 }%
483 % \FL@subfig@check
484 \def\TD@FL@subfig@check#1{%
485   \TD@printRequiredFile{#1}{subfigcheck}%
486   \TD@printSubfig{#1}%
487 }%

```

```

488 %
489 \TD@PackagePostDivert{figlatex}{%
490   \TD@docswitch{FL@includerawtexgraphics}%
491   \TD@docswitch{Ginclude@rawtex}%
492   \TD@docswitch{Ginclude@figtex}%
493   \TD@docswitch{Ginclude@svgtex}%
494   \TD@docswitch{Gread@figtex}%
495   \TD@docswitch{Gread@svgtex}%
496   \TD@docswitch{FL@subfig@check}%
497 }%

```

### 2.4.3 Package doc

```

498 \def\TD@PrintIndex{%
499   \TD@printIndexStyle{\jobname}{gind.ist}
500   \TD@printIndexTarget{\jobname}{\jobname.ind}
501   \TD@orig@PrintIndex%
502 }%
503 \def\TD@PrintChanges{%
504   \TD@printGlossaryStyle{\jobname}{gglo.ist}
505   \TD@printGlossaryTarget{\jobname}{\jobname.gls}
506   \TD@orig@PrintChanges%
507 }%
508 \TD@PackagePostDivert{doc}{%
509   \TD@docswitch{PrintIndex}%
510   \TD@docswitch{PrintChanges}%
511 }%

```

### 2.4.4 Package index

```

512 \def\TD@def@index#1#2#3#4{%
513   \TD@printIndex{#2}%
514   \TD@printIndexSource{#2}{\jobname.#3}%
515   \TD@printIndexTarget{#2}{\jobname.#4}
516   \TD@orig@def@index{#1}{#2}{#3}{#4}%
517 }%
518 \TD@PackagePostDivert{index}{%
519   \TD@switch{def@index}%
520 }%

```

### 2.4.5 Package makeidx

```

521 \def\TD@printindex{%
522   \TD@printIndexTarget{\jobname}{\jobname.ind}
523   \TD@orig@printindex%
524 }%
525 \TD@PackagePostDivert{makeidx}{%
526   \TD@docswitch{printindex}%
527 }%

```

### 2.4.6 Package glossaries

We divert `makeglossary` again after loading this package as it redefines this macro (leading to an error). `makeglossaries` program will be used with this package.

The macro (for example `\@newglossary{main}{glg}{gls}{glo}`) is used in the aux file, just to register information used by `makeglossaries`. So, we use it to get the same information to be able to call `makeglossaries` when needed.

```

528 \def\TD@newglossary#1#2#3#4{%
529   \TD@printGlossary{#1}%
530   \TD@printGlossaryTarget{#1}{\jobname.#3}%
531   \TD@printGlossarySource{#1}{\jobname.#4}%
532   \TD@printGlossaryProgVar{#1}{MAKEGLOSSARIES}%
533   \TD@orig@@newglossary{#1}{#2}{#3}{#4}%
534 }%
535 \TD@PackagePostDivert{glossaries}{
536   \TD@switch{@newglossary}%
537 }

```

#### 2.4.7 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.

```

538 \def\TD@printglossary{%
539   \TD@printGlossaryTarget{\jobname}{\jobname.gls}
540   \TD@orig@printglossary%
541 }%
542 \TD@PackagePostDivert{nomencl}{%
543   \TD@docswitch{printglossary}%
544   \TD@switch{makeglossary}%
545   \TD@printGlossaryStyle{\jobname}{nomencl.ist}
546 }%

```

#### 2.4.8 Package bibtopic

```

547 % For the bibtopic package
548 \def\TD@btSect{%
549   \ifnextchar[{\TD@btSect@opt}{\TD@btSect@noopt}}
550 \def\TD@btSect@opt[#1]#2{%
551   \TD@bibli@files{#2}%
552   \TD@bibli@style{#1}%
553   \TD@orig@btSect[#1]{#2}}
554 \def\TD@btSect@noopt#1{%
555   \TD@bibli@files{#1}%
556   \TD@orig@btSect{#1}}
557
558 \def\TD@bt@write@auxfile{%
559   \TD@printBblfile{\thebt@auxfile}%
560   \TD@orig@@bt@write@auxfile%
561 }%
562 \TD@PackagePostDivert{bibtopic}{%
563   \global\let\TD@bibli@bbl\relax%
564   \global\let\TD@biblio@rules@package\TD@biblio@rules@package@bibtopic%
565   \TD@switch{@bt@write@auxfile}%
566   \TD@printOut{btbbl.aux}%
567   \TD@printRebuildRule{bibtopic}%
568   \TD@docswitch{btSect}%
569 }%

```

#### 2.4.9 Package comment

```

570 % For the comment package, the |comment.cut| file must not be used as
571 % a dependency: it is read and written several times during a compilation.

```

```

572 \TD@PackagePostDivert{comment}{%
573   \TD@printNoDependsFile{comment.cut}%
574 }%
575 \end{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.

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## Change History

v1.0.1			texdepends.dtx	1
	General: Version 1.0.1 at last	1	v2.3.0	
v1.0.2			General: ignore comment.cut file	
	General: Add support for package		from the comment package	1
	index.sty	1	v2.4.1	
v1.1.0			General: No changes in	
	General: Manage index/glossary	1	texdepends.dtx	1
	Rewrite of the package	1	v2.4.2	
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	General: Better management of		v2.4.3	
	subfig files	1	General: No changes in	
v1.3.0			texdepends.dtx	1
	General: Management of svg files	1	v2.4.4	
v2.2.5			General: Add support for	
	General: No changes in		glossaries package	1