# The texdepends $package^*$

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#### Abstract

This package allows  $\ensuremath{\mbox{\sc IATe}}\mbox{\sc X}$  to automatically generate dependencies while compiling documents.

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### 1 Introduction

This package automatically generates dependancies on LATEX 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

11 }%

```
1 (*package)
           texdepends is easier to write with the ifthen package.
            2 \RequirePackage{ifthen}
          The debug option (enable debug messages, useful for debuging)
    debug
            3 \newboolean{TD@debug}
            4 \newcommand{\TD@option@debug}[1][true]{%
               %\PackageWarningNoLine{texdepends}{Setting debug to #1}
               \setboolean{TD@debug}{#1}%
            7 }%
           The extension option. We can use it to let texdepends know whether we compile
extension
           a dvi or a pdf file.
            8 \def\TD@option@extension[#1]{%
               %\PackageWarningNoLine{texdepends}{Using extention #1}
           10
               \def\TD@extention{#1}%
```

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

```
All option are managed by the same code.
30 \DeclareOption*{%
    %\PackageWarningNoLine{texdepends}{Option \CurrentOption}%
     \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%
       \PackageWarningNoLine{textdepends}{Detected XeTeX: using .pdf}%
39
       \def\TD@extention{.pdf}%
40
     \else\ifpdf%
41
       \PackageWarningNoLine{texdepends}{Detected PDF mode: using .pdf}%
42
       \def\TD@extention{.pdf}%
43
     \else%
44
       \PackageWarningNoLine{texdepends}{Detected DVI mode. Using .dvi}%
45
       \def\TD@extention{.dvi}%
46
    \fi\fi%
47
48 }{}%
2.2
       Tools
Some macros to help development
2.2.1 Debug/info wrapper
To write a warning
```

```
\TD@warning
                 49 \newcommand{\TD@warning}[1]{%
                     \PackageWarningNoLine{texdepends}{#1}%
                 51 }%
                To write a warning with line info
\TD@warningLine
                 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]{%
                     \ifthenelse{\boolean{TD@debug}}{%
                 56
                 57
                        \PackageWarningNoLine{texdepends}{#1}%
                     }{%
                 58
                        \PackageInfo{texdepends}{#1}%
                 59
                     }%
                 60
                 61 }%
```

```
\TD@debug To write a message if the debug option is set
                  62 \newcommand{\TD@debug}[1]{%
                      \ifthenelse{\boolean{TD@debug}}{%
                  63
                        \PackageWarningNoLine{texdepends}{#1}%
                  64
                  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 \verb|\dimmediate\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 want to ignore a dependency
                  83 \def\TD@printNoDependsFile#1{%
                  84 \TD@print{TD_\jobname\TD@extention _DEPENDS_EXCLUDE\space += #1}%
                  85 }%
    \TD@printFig We need an XFig file
                  86 \def\TD@printFig#1{%
                  87 \TD@print{TD_\jobname\TD@extention _FIGURES\space += #1}%
                  88 }%
```

```
\TD@printSubfig Web need a subfig file (see figlatex.dtx)
                       89 \def\TD@printSubfig#1{%
                          \TD@print{TD_\jobname\TD@extention _SUBFIGS\space += #1}%
                       91 }%
\TD@printRequiredFile A file is missing. texdepend will try to skip it this time, but it will be needed at
                       the next compilation
                       92 \def\TD@printRequiredFile#1{%
                       93 \TD@print{TD_\jobname\TD@extention _REQUIRED\space += #1}%
                       94 }%
         \RequireFile LaTeX users can directly declare a dependencie
                       95 \let\RequireFile\TD@printRequiredFile
         \TD@printOut We write in a file
                       96 \def\TD@printOut#1{%
                       97 \TD@print{TD_\jobname\TD@extention _OUTPUTS\space += #1}%
\TD@printGraphicspath We modify the graphicspath
                       99 \def\TD@printGraphicspath#1{%
                      100 \TD@print{TD_\jobname\TD@extention _GRAPHICSPATH\space := #1}%
                      101 }%
     \TD@printBibfile We use a bibfile (*.bib)
                      102 \def\TD@printBibfile#1{%
                      103 \TD@print{TD_\jobname\TD@extention _BIBFILES\space += #1.bib}%
                      104 }%
    \TD@printBibstyle We use a bibstyle file (*.bst)
                      105 \def\TD@printBibstyle#1{%
                      106 \TD@print{TD_\jobname\TD@extention _BIBSTYLES\space += #1.bst}%
                      107 }%
     \TD@printBblfile We use a bibliography file (*.bbl)
                      108 \def\TD@printBblfile#1{%
                      109 \TD@print{TD_\jobname\TD@extention _BBLFILES\space += #1.bbl}%
                      110 }%
\TD@printRebuildRule We need a specific rule in the Makefile to check if a rebuild is needed
                      111 \def\TD@printRebuildRule#1{%
                      112 \TD@print{TD_\jobname\TD@extention _REBUILD_RULES\space += #1}%
                      113 }%
       \TD@printIndex We use a new index
                      114 \def\TD@printIndex#1{%
                      115 \TD@print{TD_\jobname\TD@extention _INDEXES\space += INDEX}%
                      116 \TD@print{TD_\jobname\TD@extention _INDEXES_INDEX\space += #1}%
                      117 }%
```

```
\TD@printIndexSource The index file filled by LATEX
                        118 \def\TD@printIndexSource#1#2{%
                        119 \TD@print{TD_\jobname\TD@extention _INDEX_#1_SRC\space = #2}%
                        120 }%
   \TD@printIndexTarget And the index file read by LATEX after makeindex processing
                        121 \def\TD@printIndexTarget#1#2{%
                             \TD@print{TD_\jobname\TD@extention _INDEX_#1_TARGET\space = #2}%
                        123 }%
    \TD@printIndexStyle The index style to be used with makeindex (never called for now)
                        124 \def\TD@printIndexStyle#1#2{%
                             \TD@print{TD_\jobname\TD@extention _INDEX_#1_STYLE\space = #2}%
                        126 }%
      \TD@printGlossary And the same things for glossary. Its name
                        127 \def\TD@printGlossary#1{%
                             \TD@print{TD_\jobname\TD@extention _INDEXES += GLOSS}%
                              \TD@print{TD_\jobname\TD@extention _INDEXES_GLOSS\space += #1}%
                        129
                        130 }%
\TD@printGlossarySource The glossary file filled by LATEX
                        131 \def\TD@printGlossarySource#1#2{%
                        132 \TD@print{TD_\jobname\TD@extention _GLOSS_#1_SRC\space = #2}%
                        133 }%
\TD@printGlossaryTarget And the glossary file read by IATEX after makeindex processing
                        134 \def\TD@printGlossaryTarget#1#2{%
                             \TD@print{TD_\jobname\TD@extention _GLOSS_#1_TARGET\space = #2}%
                        136 }%
 \TD@printGlossaryStyle The glossary style to be used with makeindex (never called for now)
                        137 \def\TD@printGlossaryStyle#1#2{%
                              \TD@print{TD_\jobname\TD@extention _GLOSS_#1_STYLE\space = #2}%
                        139 }%
                         2.2.3 Diverting a macro
             \TD@switch \TD@switch replace the macro \#1 by the macro \TD@#1. The original macro is
                         stored in the \TD@orig@#1 macro. Nothing is done if \#1 is already \TD@#1 (that
                         is if \TD@switch is called severall times with the same argument)
                        140 \def\TD@switch#1{%
                              \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
                        141
                              \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
                        142
                              \ifx\TD@local@old\TD@local@new
                        143
                                \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
                        144
                        145
                              \else
                                \ifx\TD@local@old\relax
```

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

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

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

\TD@PackagePreDivert \TD@PackagePostDivert And then, two macros to insert command just before or after loading a package. 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 <code>@onefilewithoptions</code> LATEX macro, ie package name, options, and the two remaining;-)).

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

#### 2.2.4 Initialisation

We need to be loaded before \documentclass

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

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

#### 2.2.5 Warning upon missing figures

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

```
187 \def\TD@depends{}%

188 \def\TD@dependsWarning{%

189 \PackageWarningNoLine{texdepends}{Figure(s) missing. Check

190 dependencies again}%

191 }%

192 \def\TD@missingDepends{%

193 \global\let\TD@depends\TD@dependsWarning%

194 }%

195 \AtEndDocument{%

196 \TD@depends%

197 }%
```

# 2.3 Diversion of LaTeX macros

#### 2.3.1 Class and package loading

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

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

\TD@@onefilewithoptions

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

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

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

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

#### 2.3.2 Tracking input files

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

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

### 2.3.3 Tracking output files

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

#### 2.3.4 Tracking bibliography files

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

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

2.2 5 Classon and index floor
```

#### 2.3.5 Glossary and index files

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

# 2.4 Diversion of package's macros

#### 2.4.1 Package graphics

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

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

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

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

```
485 }%
```

### 2.4.3 Package doc

```
486 \def\TD@PrintIndex{%
     \TD@printIndexStyle{\jobname}{gind.ist}
487
     \TD@printIndexTarget{\jobname}{\jobname.ind}
488
     \TD@orig@PrintIndex%
489
490 }%
491 \def\TD@PrintChanges\{\%
     \TD@printGlossaryStyle{\jobname}{gglo.ist}
493
     \TD@printGlossaryTarget{\jobname}{\jobname.gls}
     \TD@orig@PrintChanges%
494
495 }%
496 \TD@PackagePostDivert{doc}{%
    \TD@docswitch{PrintIndex}%
     \TD@docswitch{PrintChanges}%
499 }%
2.4.4 Package index
```

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

#### 2.4.5 Package makeidx

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

#### 2.4.6 Package nomencl

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

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

#### 2.4.7 Package bibtopic

```
525\,\% For the bibtopic package
526 \left\TD@btSect{%}
     \@ifnextchar[{\TD@btSect@opt}{\TD@btSect@noopt}}
528 \def\TD@btSect@opt [#1] #2{%
     \TD@bibli@files{#2}%
529
     \TD@bibli@style{#1}%
530
     \TD@orig@btSect[#1]{#2}}
531
532 \def\TD@btSect@noopt#1{%
     \TD@bibli@files{#1}%
533
534
     \TD@orig@btSect{#1}}
535
536 \def\TD@@bt@write@auxfile{%
537
     \TD@printBblfile{\thebtauxfile}%
    \TD@orig@@bt@write@auxfile%
538
539 }%
540 \TD@PackagePostDivert{bibtopic}{%
    \global\let\TD@bibli@bbl\relax%
     \global\let\TD@biblio@rules@package\TD@biblio@rules@package@bibtopic%
542
     \TD@switch{@bt@write@auxfile}%
543
     \TD@printOut{btbbl.aux}%
544
     \TD@printRebuildRule{bibtopic}%
545
     \TD@docswitch{btSect}%
546
547 }%
        Package comment
2.4.8
548\ \% For the comment package, the |comment.cut| file must not be used as
549 % a dependency: it is read and written several times during a compilation.
550 \TD@PackagePostDivert{comment}{%
     \TD@printNoDependsFile{comment.cut}%
552 }%
553 (/package)
```

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v1.0.1 General: Version 1.0.1 at last 1	subfig filesv1.3.0	1					
v1.0.2  General: Add support for package index.sty	General: Management of svg files v2.2.5	1					
v1.1.0  General: Manage index/glossary . 1	General: No changes in texdepends.dtx	1					

v2.3.0

General: ignore comment.cut file

from the comment package . . 1

Rewrite of the package . . . . . . 1

General: Better management of

v1.2.0