The texdepends $package^*$

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Abstract

This package allows \LaTeX 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 need an XFig file
                  83 \def\TD@printFig#1{%
                  84 \TD@print{TD_\jobname\TD@extention _FIGURES\space += #1}%
                  85 }%
\TD@printSubfig Web 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 IATEX 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{%
                             \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{%
                             \TD@print{TD_\jobname\TD@extention _INDEXES += GLOSS}%
                             \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{%
                             \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 severall times with the same argument)
                        137 \def\TD@switch#1{%
                              \expandafter\let\expandafter\TD@local@old\csname#1\endcsname%
                        138
                              \expandafter\let\expandafter\TD@local@new\csname TD@#1\endcsname%
                        139
                              \ifx\TD@local@old\TD@local@new
                        140
                                \PackageWarning{texdepends}{#1 already redefined. Skipping it.}%
                        141
                        142
                              \else
                                \ifx\TD@local@old\relax
                        143
                                  \TD@warning{Diverting empty macro '#1' \MessageBreak%
                        144
                        145
                                    Probably a bug in texdepends.sty}%
                        146
                                  \TD@info{Diverting macro '#1'}%
                        147
                        148
```

```
\expandafter\let\csname TD@orig@#1\endcsname\TD@local@old%
               149
                      \expandafter\let\csname#1\endcsname\TD@local@new%
               150
                    \fi
              151
              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{%
                    \TD@info{Registering macro '#1' for diversion}%
                    \ifx\TD@docswitchlist\@empty%
              156
                      \xdef\TD@docswitchlist{#1}%
              157
              158
                      \xdef\TD@docswitchlist{\TD@docswitchlist,#1}%
              159
               160
                    \fi%
              161 }%
              162 \AtBeginDocument{%
                    \TD@info{Diverting registered macros...}%
              163
                    \@for\TD@cmd:=\TD@docswitchlist\do{%
              164
                      \TD@switch{\TD@cmd}%
              165
               166
                    \TD@info{Divertions done}%
               167
```

\TD@PackagePreDivert \TD@PackagePostDivert 168 }%

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 Conefilewithoptions LATEX 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 \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.

```
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 LATEX macros

2.3.1 Class and package loading

\TD@@fileswith@pti@ns \TD@@@fileswith@pti@ns Diverting \OffileswithOptiOns and OOfileswithOptiOns so that we can track 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@Conefilewithoptions#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 LATEX does not know it. So we try to honor the debug option.

```
207 \TD@debug{Package '#1' detected}
208 \dfor\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
         }{
           \ifthenelse{%
212
             \equal{\TD@package@option}{debug}%
213
             214
215
           }{
             \csname TD@option@\TD@package@option\endcsname%
216
           }{
217
             \TD@warningLine{Ignoring option '\TD@package@option'
218
               \MessageBreak #1 already loaded
219
             }
220
           }
221
222
         }
223
       }
     }{%
224
       \expandafter\let\expandafter\TD@divert
225
       \csname TD@PackageStart@#1\endcsname
226
       \ifx\TD@divert\relax
227
228
         \TD@debug{No preamble for package #1}
229
         \TD@info{Preamble for package #1}
230
         \TD@divert{#1}{#2}{#3}{#4}%
231
232
       \label{thm:constant} $$\TD@orig@@onefilewithoptions{#1}[#2][#3]{#4}%$
233
       \expandafter\let\expandafter\TD@divert
234
235
       \csname TD@PackageEnd@#1\endcsname
       \ifx\TD@divert\relax
236
         \TD@debug{No postamble for package #1}
237
238
         \TD@info{Postamble for package #1}
239
         \TD@divert{#1}{#2}{#3}{#4}%
240
241
       \fi
242
    }%
243 }%
244 \TD@switch{@onefilewithoptions}%
2.3.2
        Tracking input files
\@iinput and \@input@ are diverted to track loaded files
```

```
\TD@@iinput
\TD@@input@ _{245} \def\TD@@iinput#1{%}
                  \TD@printInput{#1}%
             246
                  \TD@orig@@iinput{#1}}%
             247
             248 \def\TD@@input@#1{%
             249
                  \IfFileExists{#1}{%
             250
                    \TD@printInput{#1}%
             251
                  }{}%
                  \TD@orig@@input@{#1}}%
             252
             253 \TD@switch{@iinput}%
```

 $254 \TD@switch{@input@}\%$

```
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

```
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||_{260} \verb|\letTD@orig@openout@noed||
                  261 \def\TD@openout#1{%
                        \@ifnextchar={\TD@openout@eq#1}{\TD@openout@noeq#1}}
                  263 \def\TD@openout@eq#1=#2.#3{%
                        \TD@printOut{#2.#3}%
                  ^{265}
                        \TD@orig@openout#1=#2.#3%
                  266 }%
                  267 \def\TD@openout@noeq#1#2.#3{%
                        \TD@printOut{#2.#3}%
                  268
                        \TD@orig@openout#1#2.#3%
                  269
                  270 }%
                  271 %\TD@switch{openout}
```

2.3.4 Tracking bibliography files

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

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

2.3.5 Glossary and index files

```
299 \def\TD@makeindex{%
     \TD@printIndex{\jobname}%
300
     \TD@printIndexSource{\jobname}{\jobname.idx}%
301
302
     \TD@orig@makeindex%
303 }%
304 \def\TD@makeglossary{%
305
     \TD@printGlossary{\jobname}%
     \TD@printGlossarySource{\jobname}{\jobname.glo}%
306
     \TD@orig@makeglossary%
307
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{%
     \TD@orig@Gin@getbase{#1}%
313
     \ifx\Gin@ext\relax%
314
     \TD@printFig{\Gin@base\Gin@ext}%
315
     \fi%
316
317 }%
318 \def\TD@Ginclude@eps#1{%
     \IfFileExists{#1}{%
       \TD@orig@Ginclude@eps{#1}%
320
321
     }{%
       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
322
         Skipping it this time (the last one however)\MessageBreak}%
323
       \TD@missingDepends%
324
325
       \TD@printRequiredFile{#1}%
326
     }%
327 }%
328 \def\TD@Ginclude@pdf#1{%
     \IfFileExists{#1}{%
329
       \TD@orig@Ginclude@pdf{#1}%
330
331
       \PackageWarning{texdepends}{Figure '#1' needed\MessageBreak
332
         Skipping it this time (the last one however)\MessageBreak}%
333
       \TD@missingDepends%
334
335
       \TD@printRequiredFile{#1}%
336
     }%
337 }%
338 \def\TD@graphicspath#1{%
     \TD@printGraphicspath{#1}%
```

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

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

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

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

```
\TD@orig@PrintIndex%
486
487 }%
488 \def\TD@PrintChanges{%
     \TD@printGlossaryStyle{\jobname}{gglo.ist}
489
     \TD@printGlossaryTarget{\jobname}{\jobname.gls}
490
491
     \TD@orig@PrintChanges%
492 }%
493 \TD@PackagePostDivert{doc}{%
     \TD@docswitch{PrintIndex}%
     \TD@docswitch{PrintChanges}%
495
496 }%
2.4.4 Package index
497 \def\TD@def@index#1#2#3#4{%
     \TD@printIndex{#2}%
498
     \TD@printIndexSource{#2}{\jobname.#3}%
     \TD@printIndexTarget{#2}{\jobname.#4}
500
     \TD@orig@def@index{#1}{#2}{#3}{#4}%
501
502 }%
503 \TD@PackagePostDivert{index}{%
504 \TD@switch{def@index}%
505 }%
2.4.5
        Package makeidx
506 \def\TD@printindex{%
     \TD@printIndexTarget{\jobname}{\jobname.ind}
     \TD@orig@printindex%
508
509 }%
510 \TD@PackagePostDivert{makeidx}{%
     \TD@docswitch{printindex}%
512 }%
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.
513 \def\TD@printglossary{%
     \TD@printGlossaryTarget{\jobname}{\jobname.gls}
515
     \TD@orig@printglossary%
516 }%
517 \TD@PackagePostDivert{nomencl}{%
     \TD@docswitch{printglossary}%
     \TD@switch{makeglossary}%
     \TD@printGlossaryStyle{\jobname}{nomencl.ist}
520
521 }%
        Package bibtopic
2.4.7
```

522 % Pour le package bibtopic

523 \def\TD@btSect{%

```
\@ifnextchar[{\TD@btSect@opt}{\TD@btSect@noopt}}
524
525 \ensuremath{ \mbox{ def}\mbox{TD@btSect@opt}[\#1]\mbox{\#}2\{\%\ensuremath{ \mbox{ }\mbox{ }}
                                      \TD@bibli@files{#2}%
526
                                      \TD@bibli@style{#1}%
527
                                      \TD@orig@btSect[#1]{#2}}
528
529 \def\TD@btSect@noopt#1{%
530
                                      \TD@bibli@files{#1}%
                                      \TD@orig@btSect{#1}}
531
532
533 \ensuremath{\mbox{\sc def}\mbox{\sc TD00bt0write0auxfile}\mbox{\sc def}\mbox{\sc def}\mbox{\sc
                                      \TD@printBblfile{\thebtauxfile}%
534
                                      \TD@orig@@bt@write@auxfile%
535
536 }%
537 \TD@PackagePostDivert{bibtopic}{%
                                      \global\let\TD@bibli@bbl\relax%
538
                                        \verb|\global| let \TD@biblio@rules@package\TD@biblio@rules@package@bibtopic\%| let \TD@biblio@rules@package@bibtopic\%| let \TD@biblio@rules@package@bibtopic%| let \TD@b
539
                                      \TD@switch{@bt@write@auxfile}%
540
                                      \TD@printOut{btbbl.aux}%
541
542
                                      \TD@printRebuildRule{bibtopic}%
543
                                      \TD@docswitch{btSect}%
544 }%
545 (/package)
```

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General: Version 1.0.1 at last 1	v1.2.0
v1.0.2	General: Better management of subfig files
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v1.1.0	General: Management of svg files 1
General: Manage index/glossary . 1	General. Management of svg mes 1
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