The `latexbug` package[*]

The LaTeX Team

2018/12/31

> This file is maintained by the LaTeX Project team.
> Bug reports can be opened (category `latex`) at
> `https://latex-project.org/bugs.html`.

1   Introduction

Software has bugs and LaTeX unfortunately is no exception. If somebody encounters a bug then it helps if that bug gets reported to the right people so that the bug can be resolved (or a workaround documented or whatever is most appropriate). The problem is to know to whom to report the bug.

The LaTeX Project Team maintains a bug database for its own code base (which consists of the LaTeX kernel and some packages that have been written by people in the LaTeX Project Team). However, the LaTeX universe consists of several thousand contributed packages maintained by individuals all over the world. And if a bug happens in one of those packages it doesn't help anybody if it is dumped at the LaTeX Project's doorstep.

For one, we can't actually change other people's code even if we are able to identify the issue. Furthermore we are only a few people and simply do not have the bandwidth to analyze bugs in other people's work.

We have therefore written this little package called `latexbug` that should help in identifying the rightful addressee for a bug report. We ask that it will be loaded in any test file that is intended to be sent to the LaTeX bug database as part of a bug report.

The package will determine if the test file is in a suitable state to be sent to us or if it should be modified first or if it should be sent to somebody else because the bug is (likely) to be in code not maintained by the LaTeX Project Team.

Bug reports sent to the LaTeX bug database without that prior verification are likely to get closed without being looked at at our end in the future.

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[*]This file has version number v1.0e, last revised 2018/12/31.

2 The user interface

The user interface is simple: the package has no option and doesn't define any new commands to be used. All that is required is that the package is loaded as the very first step in the test file that shows the bug — in other words before the \documentclass. For that reason it must be loaded using \RequirePackage instead of the usual \usepackage that is used in the preamble of a document.

Thus, a bug report test files should look like this:

```
\RequirePackage{latexbug}       % <- required first line
                                %    followed by:
\documentclass{article}         % or some other class
                                %    followed by:
  ...                           % <- code showing the bug ...
\end{document}
```

If the test file runs through (showing the bug) without any complains for latexbug then the test file is ready to be sent to the LATEX bug database. The procedure for uploading and the location is documented at

> https://www.latex-project.org/bugs/

If latexbug does generate an error, however, then this error needs to be addressed first and the depending on the resolution the bug report may has to be sent to somebody else.

An error is generated if the test file makes use of third-party code that is not maintained by the LATEX Project Team. For example, if the file would load geometry, footmisc and hyperref you would see the following:

```
Package latexbug Error: Third-party file(s)
(latexbug)
(latexbug)               This test file uses third-party file(s)
(latexbug)
(latexbug)               ==============
(latexbug)               geometry.sty  ->  Hideo Umeki
(latexbug)                   <latexgeometry [at] gmail [dot] com>
(latexbug)               footmisc.sty
(latexbug)               hyperref.sty  ->  Heiko Oberdiek
(latexbug)                   https://github.com/ho-tex/hyperref/issues
(latexbug)               ==============
(latexbug)
```

It then continues with advice to remove such third-party code from the test file. If that is not possible, because the bug goes away if a package is removed, then the problem is (most likely) with this package and the bug report should be sent to the maintainer of that package and not to the LATEX bug database.

```
(latexbug)               So you should contact the authors
```

```
(latexbug)                         of these files, not the LaTeX Team!
(latexbug)                         (Or remove the packages that load
(latexbug)                         them, if they are not necessary to
(latexbug)                         exhibit the problem).
```

To make life somewhat easier `latexbug` will tell you the name of the maintainer (if we know it and have added it in) and if possible also the canonical bug address for the package (like in the case of `geometry` and `hyperref`). If we don't have that information, you need to find it out for yourself by looking at the package documentation.

There may be cases where third-party code is essential to exhibit a bug in core LaTeX code maintained by the the LaTeX Team. The error text therefore finishes off with the following sentence:

```
(latexbug)                         If you think the bug is in core LaTeX
(latexbug)                         (as maintained by the LaTeX Team) but
(latexbug)                         these files are needed to demonstrate
(latexbug)                         the problem, please continue and mention
(latexbug)                         this explicitly in your bug report
(latexbug)                         (with an explanation why you think so).
```

Please explain your reasoning why you think this is the case in detail as part of the bug report.

> *Thank you for taking the time to report a bug and prepare a test file showing it!*

2.1   A note on the database content in the package

When a document is run through LaTeX it will load a number of files and bug reports that are to be sent to the LaTeX Team should only load files that we maintain and not third-party packages.

The database, if you want to call that, inside `latexbug` is simply a comma separated key value list consisting of file names = maintainer info. Most of the time the maintainer info is `us` or `us*` (meaning we maintain it, so the file is fine) or `ignore` (meaning we do not maintain it, but it is a file that is likely to appear for one or the other reason and we should accept such a bug report nonetheless).

Any file loaded in the bug report not listed will show up in the error listing flagged as "third-party" code that should be removed as explained above.

For a small number of popular third-party packages we have collected the name of the external maintainer and if available to us some extra info so that it is easier to send to the rightful addressee if you encounter a bug in such a third-party package. But to keep this manageable this is only done for a very small number of the 5000+ packages out there (though we might add one or the other over time).

It is however not impossible that we missed one or the other file that should have been listed as "maintained by us" but isn't and thus incorrectly generates an error. If you run into that problem or notice an omission of that sort, please send us a bug report or open an issue at the GitHub source of the package which is located at:

```
https://github.com/latex3/latexbug/
```

3 The documentation driver file

The next bit of code contains the documentation driver file for TeX, i.e., the file that will produce the documentation you are currently reading. It will be extracted from this file by the `docstrip` program.

```
 1 ⟨*driver⟩
 2 \RequirePackage{latexbug}
 3 \documentclass{ltxdoc}
 4 \GetFileInfo{latexbug.sty}
 5 %\usepackage{geometry,footmisc,hyperref}  % uncomment for latexbug error
 6 %\usepackage{xparse}                      % uncomment for latexbug error
 7 \EnableCrossrefs
 8 %\DisableCrossrefs    % Say \DisableCrossrefs if index is ready
 9 %\OnlyDescription     % Comment out for implementation details
10 \begin{document}
11     \DocInput{latexbug.dtx}
12 \end{document}
13 ⟨/driver⟩
```

4 The implementation

```
14 ⟨*package⟩
15 \NeedsTeXFormat{LaTeX2e}
16 \ProvidesPackage{latexbug}[2018/12/31 v1.0e Bug-classification]
```

\latexbug@empty   Fixed text used in checking what actions to take with different files.
\latexbug@us
\latexbug@ustar   `17 \def\latexbug@empty{}`
\latexbug@ignore `18 \def\latexbug@us{us}`
```
19 \def\latexbug@usstar{us*}
20 \def\latexbug@ignore{ignore}
```

\Contact   A very simple piece of markup, really.

```
21 \def\Contact{\MessageBreak \@spaces}
```

The database of packages is set up in a group so we can throw away the loop command.

```
22 \begingroup
```

\latexbug@loop A simple loop set up which reads a known format for the file-to-maintainer mapping. The trailing space is important (stripping it is not really worth it for this very limited use case).

```
23 \long\def\latexbug@loop #1 = #2 , {% spaces matter
24   \global\@namedef{latexbug@@#1}{#2}%
25   \ifx\latexbug@empty#1\else\expandafter\latexbug@loop\fi}
```

A simple database of files. The value `us` means we accept bugs for it. We also take bug reports for `us*` (expl3) entries, but they need to go to a different GitHub repository, so are handled separately (and only show up if there doesn't seem to be anything else to pick up). A value of `ignore` means that its not our code, but we understand that it may show up in legitimate test files and should therefore not trigger an error.

Any file not in there will trigger an error if loaded and any file in there with some other value than `us` or `ignore` will also trigger an error displaying the value (which hopefully is the maintainers name). (Handling for `us*` means these files may not show up, depending on the nature of the use case.)

> *The database format is somewhat fragile: one needs to have a space on both sides of the equal sign (or one gets a nasty low-level error) and names can't have no-ascii characters in them, so they end up crippled (sorry for that).*

```
26 \latexbug@loop
27 %-------------------------------
28 latexbug.sty = us ,
29 regression-test = us ,
30 %------------------------------- base
31 alltt.sty = us ,
32 ansinew.def = us ,
33 applemac.def = us ,
34 article.cls = us ,
35 article.sty = us ,
36 ascii.def = us ,
37 bezier.sty = us ,
38 bk10.clo = us ,
39 bk11.clo = us ,
40 bk12.clo = us ,
41 book.cls = us ,
42 book.sty = us ,
43 cp1250.def = us ,
44 cp1252.def = us ,
45 cp1257.def = us ,
46 cp437.def = us ,
47 cp437de.def = us ,
48 cp850.def = us ,
49 cp852.def = us ,
50 cp858.def = us ,
51 cp865.def = us ,
```

```
52 decmulti.def = us ,
53 doc.sty = us ,
54 docstrip.tex = us ,
55 exscale.sty = us ,
56 fix-cm.sty = us ,
57 fixltx2e.sty = us ,
58 flafter.sty = us ,
59 fleqn.clo = us ,
60 fleqn.sty = us ,
61 fltrace.sty = us ,
62 fontenc.sty = us ,
63 fontmath.cfg = us ,
64 fontmath.ltx = us ,
65 fonttext.cfg = us ,
66 fonttext.ltx = us ,
67 graphpap.sty = us ,
68 hyphen.ltx = us ,
69 idx.tex = us ,
70 ifthen.sty = us ,
71 inputenc.sty = us ,
72 lablst.tex = us ,
73 latex.ltx = us ,
74 latex209.def = us ,
75 latexbug.tex = us ,
76 latexrelease.sty = us ,
77 latexsym.sty = us ,
78 latin1.def = us ,
79 latin10.def = us ,
80 latin2.def = us ,
81 latin3.def = us ,
82 latin4.def = us ,
83 latin5.def = us ,
84 latin9.def = us ,
85 lcyenc.dfu = us ,
86 leqno.clo = us ,
87 leqno.sty = us ,
88 letter.cls = us ,
89 letter.sty = us ,
90 lppl.tex = us ,
91 ltluatex.lua = us ,
92 ltluatex.tex = us ,
93 ltnews.cls = us ,
94 ltxcheck.tex = us ,
95 ltxdoc.cls = us ,
96 ltxguide.cls = us ,
97 ly1enc.dfu = us ,
98 macce.def = us ,
99 makeidx.sty = us ,
100 minimal.cls = us ,
101 newlfont.sty = us ,
```

```
102 next.def = us ,
103 nfssfont.tex = us ,
104 oldlfont.sty = us ,
105 omlcmm.fd = us ,
106 omlcmr.fd = us ,
107 omlenc.def = us ,
108 omllcmm.fd = us ,
109 omscmr.fd = us ,
110 omscmsy.fd = us ,
111 omsenc.def = us ,
112 omsenc.dfu = us ,
113 omslcmsy.fd = us ,
114 omxcmex.fd = us ,
115 omxlcmex.fd = us ,
116 openbib.sty = us ,
117 ot1cmdh.fd = us ,
118 ot1cmfib.fd = us ,
119 ot1cmfr.fd = us ,
120 ot1cmr.fd = us ,
121 ot1cmss.fd = us ,
122 ot1cmtt.fd = us ,
123 ot1cmvtt.fd = us ,
124 ot1enc.def = us ,
125 ot1enc.dfu = us ,
126 ot1lcmss.fd = us ,
127 ot1lcmtt.fd = us ,
128 ot2enc.dfu = us ,
129 ot4enc.def = us ,
130 preload.cfg = us ,
131 preload.ltx = us ,
132 proc.cls = us ,
133 proc.sty = us ,
134 report.cls = us ,
135 report.sty = us ,
136 sample2e.tex = us ,
137 sfonts.def = us ,
138 shortvrb.sty = us ,
139 showidx.sty = us ,
140 size10.clo = us ,
141 size11.clo = us ,
142 size12.clo = us ,
143 slides.cls = us ,
144 slides.def = us ,
145 slides.sty = us ,
146 small2e.tex = us ,
147 source2e.tex = us ,
148 syntonly.sty = us ,
149 t1cmdh.fd = us ,
150 t1cmfib.fd = us ,
151 t1cmfr.fd = us ,
```

```
152 t1cmr.fd = us ,
153 t1cmss.fd = us ,
154 t1cmtt.fd = us ,
155 t1cmvtt.fd = us ,
156 t1enc.def = us ,
157 t1enc.dfu = us ,
158 t1enc.sty = us ,
159 t1lcmss.fd = us ,
160 t1lcmtt.fd = us ,
161 t2aenc.dfu = us ,
162 t2benc.dfu = us ,
163 t2cenc.dfu = us ,
164 testpage.tex = us ,
165 texsys.cfg = us ,
166 textcomp.sty = us ,
167 tracefnt.sty = us ,
168 ts1cmr.fd = us ,
169 ts1cmss.fd = us ,
170 ts1cmtt.fd = us ,
171 ts1cmvtt.fd = us ,
172 ts1enc.def = us ,
173 ts1enc.dfu = us ,
174 ucmr.fd = us ,
175 ucmss.fd = us ,
176 ucmtt.fd = us ,
177 ulasy.fd = us ,
178 ullasy.fd = us ,
179 utf8-test.tex = us ,
180 utf8.def = us ,
181 utf8enc.dfu = us ,
182 utf8test.tex = us ,
183 x2enc.dfu = us ,
184 %------------------------------- tools
185 afterpage.sty = us ,
186 array.sty = us ,
187 bm.sty = us ,
188 calc.sty = us ,
189 dcolumn.sty = us ,
190 delarray.sty = us ,
191 e.tex = us ,
192 enumerate.sty = us ,
193 fontsmpl.sty = us ,
194 fontsmpl.tex = us ,
195 ftnright.sty = us ,
196 h.tex = us ,
197 hhline.sty = us ,
198 indentfirst.sty = us ,
199 layout.sty = us ,
200 longtable.sty = us ,
201 multicol.sty = us ,
```

```
202 q.tex = us ,
203 r.tex = us ,
204 rawfonts.sty = us ,
205 s.tex = us ,
206 showkeys.sty = us ,
207 somedefs.sty = us ,
208 tabularx.sty = us ,
209 thb.sty = us ,
210 thc.sty = us ,
211 thcb.sty = us ,
212 theorem.sty = us ,
213 thm.sty = us ,
214 thmb.sty = us ,
215 thp.sty = us ,
216 trace.sty = us ,
217 varioref.sty = us ,
218 verbatim.sty = us ,
219 verbtest.tex = us ,
220 x.tex = us ,
221 xr.sty = us ,
222 xspace.sty = us ,
223 %----------------------------- babel (part supported by us)
224 UKenglish.sty = us ,
225 USenglish.sty = us ,
226 afrikaans.sty = us ,
227 albanian.sty = us ,
228 american.sty = us ,
229 austrian.sty = us ,
230 babel.def = us ,
231 babel.sty = us ,
232 bahasa.sty = us ,
233 bahasam.sty = us ,
234 basque.sty = us ,
235 blplain.tex = us ,
236 bplain.tex = us ,
237 breton.sty = us ,
238 british.sty = us ,
239 bulgarian.sty = us ,
240 catalan.sty = us ,
241 croatian.sty = us ,
242 czech.sty = us ,
243 danish.sty = us ,
244 dutch.sty = us ,
245 english.sty = us ,
246 esperanto.sty = us ,
247 estonian.sty = us ,
248 finnish.sty = us ,
249 francais.sty = us ,
250 galician.sty = us ,
251 germanb.sty = us ,
```

```
252 greek.sty = us ,
253 hebrew.sty = us ,
254 hyphen.cfg = us ,
255 icelandic.sty = us ,
256 interlingua.sty = us ,
257 irish.sty = us ,
258 italian.sty = us ,
259 latin.sty = us ,
260 lsorbian.sty = us ,
261 luababel.def = us ,
262 magyar.sty = us ,
263 naustrian.sty = us ,
264 ngermanb.sty = us ,
265 nil.ldf = us ,
266 norsk.sty = us ,
267 plain.def = us ,
268 polish.sty = us ,
269 portuges.sty = us ,
270 romanian.sty = us ,
271 russianb.sty = us ,
272 samin.sty = us ,
273 scottish.sty = us ,
274 serbian.sty = us ,
275 slovak.sty = us ,
276 slovene.sty = us ,
277 spanish.sty = us ,
278 swedish.sty = us ,
279 switch.def = us ,
280 turkish.sty = us ,
281 ukraineb.sty = us ,
282 usorbian.sty = us ,
283 welsh.sty = us ,
284 xebabel.def = us ,
285 %------------------------------- graphics
286 color.cfg = us ,
287 color.sty = us ,
288 dvipdf.def = us ,
289 dvipdfmx.def = us ,
290 dvips.def = us ,
291 dvipsnam.def = us ,
292 dvipsone.def = us ,
293 dviwin.def = us ,
294 emtex.def = us ,
295 epsfig.sty = us ,
296 graphics.cfg = us ,
297 graphics.sty = us ,
298 graphicx.sty = us ,
299 keyval.sty = us ,
300 lscape.sty = us ,
301 luatex.def = us ,
```

```
302 pctex32.def = us ,
303 pctexhp.def = us ,
304 pctexps.def = us ,
305 pctexwin.def = us ,
306 pdftex.def = us ,
307 pdftex.def = us ,
308 tcidvi.def = us ,
309 trig.sty = us ,
310 truetex.def = us ,
311 xetex.def = us ,
312 %------------------------------ mfnfss
313 oldgerm.sty = us ,
314 ot1panr.fd = us ,
315 ot1pss.fd = us ,
316 pandora.sty = us ,
317 uyfrak.fd = us ,
318 uygoth.fd = us ,
319 uyinit.fd = us ,
320 uyswab.fd = us ,
321 %------------------------------ amsmath
322 amsbsy.sty = us ,
323 amscd.sty = us ,
324 amsgen.sty = us ,
325 amsmath.sty = us ,
326 amsopn.sty = us ,
327 amstex.sty = us ,
328 amstext.sty = us ,
329 amsxtra.sty = us ,
330 %------------------------------ amscls (AMS)
331 amsart.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
332 amsbook.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
333 amsbooka.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
334 amsdtx.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
335 amsldoc.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
336 amsmidx.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
337 amsproc.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
338 amsthm.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
339 upref.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
340 %------------------------------ amsfonts (AMS)
341 amsfonts.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
342 amssymb.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
343 cmmib57.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
344 eucal.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
345 eufrak.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
346 euscript.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
347 ueuex.fd = ignore ,
348 ueuf.fd = ignore ,
349 ueur.fd = ignore ,
350 ueus.fd = ignore ,
351 umsa.fd = ignore ,
```

```
352 umsb.fd = ignore ,
353 %------------------------------ psnfss
354 8rbch.fd = us ,
355 8rpag.fd = us ,
356 8rpbk.fd = us ,
357 8rpcr.fd = us ,
358 8rphv.fd = us ,
359 8rpnc.fd = us ,
360 8rppl.fd = us ,
361 8rptm.fd = us ,
362 8rput.fd = us ,
363 8rpzc.fd = us ,
364 avant.sty = us ,
365 bookman.sty = us ,
366 chancery.sty = us ,
367 charter.sty = us ,
368 courier.sty = us ,
369 helvet.sty = us ,
370 mathpazo.sty = us ,
371 mathpple.sty = us ,
372 mathptm.sty = us ,
373 mathptmx.sty = us ,
374 newcent.sty = us ,
375 omlbch.fd = us ,
376 omlpag.fd = us ,
377 omlpbk.fd = us ,
378 omlpcr.fd = us ,
379 omlphv.fd = us ,
380 omlpnc.fd = us ,
381 omlppl.fd = us ,
382 omlptm.fd = us ,
383 omlptmcm.fd = us ,
384 omlput.fd = us ,
385 omlpzc.fd = us ,
386 omlzplm.fd = us ,
387 omlzpple.fd = us ,
388 omlztmcm.fd = us ,
389 omsbch.fd = us ,
390 omspag.fd = us ,
391 omspbk.fd = us ,
392 omspcr.fd = us ,
393 omsphv.fd = us ,
394 omspnc.fd = us ,
395 omsppl.fd = us ,
396 omsptm.fd = us ,
397 omsput.fd = us ,
398 omspzc.fd = us ,
399 omspzccm.fd = us ,
400 omszplm.fd = us ,
401 omszpple.fd = us ,
```

```
402 omsztmcm.fd = us ,
403 omxpsycm.fd = us ,
404 omxzplm.fd = us ,
405 omxzpple.fd = us ,
406 omxztmcm.fd = us ,
407 ot1bch.fd = us ,
408 ot1pag.fd = us ,
409 ot1pbk.fd = us ,
410 ot1pcr.fd = us ,
411 ot1phv.fd = us ,
412 ot1pnc.fd = us ,
413 ot1ppl.fd = us ,
414 ot1pplj.fd = us ,
415 ot1pplx.fd = us ,
416 ot1ptm.fd = us ,
417 ot1ptmcm.fd = us ,
418 ot1put.fd = us ,
419 ot1pzc.fd = us ,
420 ot1zplm.fd = us ,
421 ot1zpple.fd = us ,
422 ot1ztmcm.fd = us ,
423 palatino.sty = us ,
424 pifont.sty = us ,
425 t1bch.fd = us ,
426 t1pag.fd = us ,
427 t1pbk.fd = us ,
428 t1pcr.fd = us ,
429 t1phv.fd = us ,
430 t1pnc.fd = us ,
431 t1ppl.fd = us ,
432 t1pplj.fd = us ,
433 t1pplx.fd = us ,
434 t1ptm.fd = us ,
435 t1put.fd = us ,
436 t1pzc.fd = us ,
437 times.sty = us ,
438 ts1bch.fd = us ,
439 ts1pag.fd = us ,
440 ts1pbk.fd = us ,
441 ts1pcr.fd = us ,
442 ts1phv.fd = us ,
443 ts1pnc.fd = us ,
444 ts1ppl.fd = us ,
445 ts1pplj.fd = us ,
446 ts1pplx.fd = us ,
447 ts1ptm.fd = us ,
448 ts1put.fd = us ,
449 ts1pzc.fd = us ,
450 ufplm.fd = us ,
451 ufplmbb.fd = us ,
```

```
452 upsy.fd = us ,
453 upzd.fd = us ,
454 utopia.sty = us ,
455 %------------------------------ expl3
456 expl3.sty  = us* ,
457 l3sort.sty = us* ,
458 l3regex.sty = us* ,
459 l3tl-analysis.sty = us* ,
460 xfrac.sty = us* ,
461 xparse.sty = us* ,
462 xtemplate.sty = us* ,
463 xfrac.sty = us* ,
464 xcoffins.sty = us* ,
465 xgalley.sty = us* ,
466 l3keys2e.sty = us* ,
467 expl3-code.tex = ignore ,
468 %------------------------------ USEFUL FOR BUG REPORTS
469 blindtext.sty = ignore ,
470 etoolbox.sty = ignore ,
471 lipsum.sty   = ignore ,
472 %------------------------------ EXTERNALLY SUPPORTED
473 %
474 beamer.cls  = Joseph Wright
475              \Contact https://github.com/josephwright/beamer/issues ,
476 fontspec.sty = Will Robertson
477              \Contact https://github.com/wspr/fontspec/issues ,
478 geometry.sty = Hideo Umeki
479              \Contact <latexgeometry [at] gmail [dot] com> ,
480 hpdftex.def  = ignore ,
481 hluatex.def  = ignore ,
482 hxetex.def   = ignore ,
483 hyperref.cfg = ignore ,
484 hyperref.sty = Heiko Oberdiek
485              \Contact https://github.com/ho-tex/hyperref/issues ,
486 luatex85.sty  = Joseph Wright
487              \Contact https://github.com/josephwright/luatex85/issues ,
488 pd1enc.def   = ignore ,
489 puenc.def    = ignore ,
490 siunitx.sty = Joseph Wright
491              \Contact https://github.com/josephwright/siunitx/issues ,
492 %------------------------------ babel external
493 basque.ldf      = Juan M. Aguirregabiria
494                 \Contact <http://tp.lc.ehu.es/jma.html> ,
495 belarusian.ldf  = Aleksey Novodvorsky, Andrew Shadura
496                 \Contact <andrew [at] shadura [dot] me> ,
497 bosnian.ldf     = Samir Halilcevic %% Halilčević
498                 \Contact <samir [dot] halilcevic [at] fet [dot] ba> ,
499 bulgarian.ldf   = Georgi N. Boshnakov
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```
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511 austrian.ldf    = Juergen Spitzmueller
512                        \Contact <juergen [at] spitzmueller [dot] org> ,
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514                        \Contact <juergen [at] spitzmueller [dot] org> ,
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516                        \Contact <juergen [at] spitzmueller [dot] org> ,
517 naustrian.ldf   = Juergen Spitzmueller
518                        \Contact <juergen [at] spitzmueller [dot] org> ,
519 ngerman.ldf     = Juergen Spitzmueller
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521 ngermanb.ldf    = Juergen Spitzmueller
522                        \Contact <juergen [at] spitzmueller [dot] org> ,
523 nswissgerman.ldf = Juergen Spitzmueller
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539 occitan.ldf     = Cedric Valmary %% Cédric Valmary
540                        \Contact <cvalmary [at] yahoo [dot] fr> ,
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548                        \Contact <kia999 [at] mail [dot] ru> ,
549 serbianc.ldf    = Filip Brcic
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551 spanglish.ldf   = J [dot]  Luis Rivera
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```
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555 thaicjk.ldf    = Werner Lemberg
556                        \Contact <wl [at] gnu [dot] org> ,
557 ukraineb.ldf   = Sergiy Ponomarenko
558                        \Contact <sergiy [dot] ponomarenko [at] gmail [dot] com> ,
559 vietnamese.ldf = Werner Lemberg
560                        \Contact <wl [at] gnu [dot] org> ,
561 %------------------------------ LAST LINE
562 {\latexbug@empty} = {} ,
```

Keep the data but throw away the loop function.

```
563 \endgroup
```

`\latexbug@addtofilelist`   Save the kernel version of `\@addtofilelist`.

```
564 \let\latexbug@addtofilelist\@addtofilelist
```

`\latexbug@zzzz`   Storage for third-party files and those from the LaTeX3 set on GitHub.
`\latexbug@expl`
```
565 \def\latexbug@zzzz{}
566 \def\latexbug@expl{}
```

`\latexbug@process@table`   A hook into a convenient place in the document set up: the initialization of NFSS
`\process@table`   during the `\document` macro. If either `\latexbug@zzzz` or `\latexbug@expl` have
any content then there is a message to issue, it's just a question of deciding which
one.

```
567 \let\latexbug@process@table\process@table
568 \def\process@table{\global\let\@addtofilelist\latexbug@addtofilelist
569   \latexbug@process@table
570   \ifx\latexbug@zzzz\latexbug@empty
571     \ifx\latexbug@expl\latexbug@empty
572     \else
573       \PackageError{latexbug}%
574         {LaTeX3 file(s)\MessageBreak
575 \MessageBreak
576 This test files uses the LaTeX3 file(s)\MessageBreak
577 \MessageBreak
578         ==============\MessageBreak
579         \latexbug@expl
580         ==============\MessageBreak
581         \MessageBreak
582 You should report bugs in these packages\MessageBreak
583 at the LaTeX3 GitHub site,\MessageBreak
584 https://github.com/latex3/latex3/issues\MessageBreak
585 (Or remove them from your example,\MessageBreak
586 if they are not necessary to\MessageBreak
587 exhibit the problem).\MessageBreak
588 }{Please correct your test file prior
589                       to submitting the bug report.\MessageBreak
```

```
590                            Otherwise it is likely to be rejected!}%
591     \fi
592   \else
593      \PackageError{latexbug}%
594                    {Third-party file(s)\MessageBreak
595 \MessageBreak
596 This test file uses third-party file(s)\MessageBreak
597 \MessageBreak
598         ==============\MessageBreak
599         \latexbug@zzzz
600         ==============\MessageBreak
601         \MessageBreak
602 So you should contact the authors\MessageBreak
603 of these files, not the LaTeX Team!\MessageBreak
604 (Or remove the packages that load\MessageBreak
605 them, if they are not necessary to\MessageBreak
606 exhibit the problem).\MessageBreak
607 \MessageBreak
608 If you think the bug is in core LaTeX\MessageBreak
609 (as maintained by the LaTeX Team) but\MessageBreak
610 these files are needed to demonstrate\MessageBreak
611 the problem, please continue and mention\MessageBreak
612 this explicitly in your bug report\MessageBreak
613 (with an explanation why you think so)}{Please
614                     correct your test file prior
615                     to submitting the bug report.\MessageBreak
616                     Otherwise it is likely to be rejected!}%
617    \fi
618 }
```

\@addtofilelist
\latexbug@iftoplevel

First, a test to see if we are at the top level: there's no need to test dependencies of packages. Assuming we are doing a check, the aim is to see if the current name is known, and if it is whether it fits into one of our special cases. If it's one of the LaTeX3 GitHub packages it gets recorded in a dedicated space. Third-party package can also have information about where to report issues: this is all stored for reporting later.

```
619 \def\@addtofilelist#1{%
620 % \show\@currnamestack
621   \expandafter\latexbug@iftoplevel\@currnamestack {}\@nil
622   \begingroup
623     \xdef\latexbug@x{#1}% TODO: one-level sanitize
624     \expandafter
625    \ifx\csname latexbug@@\latexbug@x\endcsname\relax
626      \def\latexbug@y{}%
627    \else
628      \xdef\latexbug@y{\csname latexbug@@\latexbug@x\endcsname}%
629    \fi
630    \ifx\latexbug@y\latexbug@us\else
631      \ifx\latexbug@y\latexbug@usstar
```

```
632        \begingroup
633          \let\MessageBreak\relax
634          \xdef\latexbug@expl{%
635            \latexbug@expl\latexbug@x
636            \MessageBreak
637          }%
638        \endgroup
639      \else
640        \ifx\latexbug@y\latexbug@ignore\else
641          {\let\MessageBreak\relax
642            \xdef\latexbug@zzzz{\latexbug@zzzz\latexbug@x
643              \ifx\latexbug@y\latexbug@empty\else
644                \space\space -> \space \latexbug@y\fi
645              \MessageBreak}}%
646        \fi
647      \fi
648    \fi
649      \endgroup
650  \fi
651  \latexbug@addtofilelist{#1}}
652 \def\latexbug@iftoplevel #1#2\@nil{%
653  \def\next{#1}%
654  \ifx\next\@empty
655 }
656 \endinput
657 ⟨/package⟩
```

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