

The `latexbug` package*

The L^AT_EX Team

2019/09/13

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

1 Introduction

Software has bugs and L^AT_EX 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 L^AT_EX Project Team maintains a bug database for its own code base (which consists of the L^AT_EX kernel and some packages that have been written by people in the L^AT_EX Project Team). However, the L^AT_EX 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 L^AT_EX 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 L^AT_EX 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 L^AT_EX Project Team.

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

*This file has version number v1.0f, last revised 2019/09/13.

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 L^AT_EX 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 L^AT_EX 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 L^AT_EX 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 L^AT_EX code maintained by the the L^AT_EX 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 L^AT_EX it will load a number of files and bug reports that are to be sent to the L^AT_EX 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 T_EX, 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}[2019/09/13 v1.0f Bug-classification]

\latexbug@empty Fixed text used in checking what actions to take with different files.
\latexbug@us
\latexbug@ustar
\latexbug@ignore
17 \def\latexbug@empty{}
18 \def\latexbug@us{us}
19 \def\latexbug@ustar{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 labl.st.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 om1cmm.fd = us ,
106 om1cmr.fd = us ,
107 om1enc.def = us ,
108 om1lcmm.fd = us ,
109 om1cmr.fd = us ,
110 om1cmsy.fd = us ,
111 omsenc.def = us ,
112 omsenc.dfu = us ,
113 om1lcmsy.fd = us ,
114 om1cmex.fd = us ,
115 om1lcex.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 ot1lcmsy.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 sfnts.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 ,

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

```



```

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

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


```

452 ufplmbb.fd = us ,
453 upsy.fd = us ,
454 upzd.fd = us ,
455 utopia.sty = us ,
456 %----- expl3
457 expl3.sty = us* ,
458 l3sort.sty = us* ,
459 l3regex.sty = us* ,
460 l3tl-analysis.sty = us* ,
461 xfrac.sty = us* ,
462 xparse.sty = us* ,
463 xtemplate.sty = us* ,
464 xfrac.sty = us* ,
465 xcoffins.sty = us* ,
466 xgalley.sty = us* ,
467 l3keys2e.sty = us* ,
468 expl3-code.tex = ignore ,
469 %----- USEFUL FOR BUG REPORTS
470 blindtext.sty = ignore ,
471 etoolbox.sty = ignore ,
472 lipsum.sty = ignore ,
473 %----- EXTERNALLY SUPPORTED
474 %
475 beamer.cls = Joseph Wright
476 \Contact https://github.com/josephwright/beamer/issues ,
477 fontspec.sty = Will Robertson
478 \Contact https://github.com/wspr/fontspec/issues ,
479 geometry.sty = Hideo Umekei
480 \Contact <latexgeometry [at] gmail [dot] com> ,
481 hpdftex.def = ignore ,
482 luatex.def = ignore ,
483 hxdetex.def = ignore ,
484 hyperref.cfg = ignore ,
485 hyperref.sty = Heiko Oberdiek
486 \Contact https://github.com/ho-tex/hyperref/issues ,
487 luatex85.sty = Joseph Wright
488 \Contact https://github.com/josephwright/luatex85/issues ,
489 pdlenc.def = ignore ,
490 puenc.def = ignore ,
491 siunitx.sty = Joseph Wright
492 \Contact https://github.com/josephwright/siunitx/issues ,
493 %----- babel external
494 basque.ldf = Juan M. Aguirregabiria
495 \Contact <http://tp.lc.ehu.es/jma.html> ,
496 belarusian.ldf = Aleksey Novodvorsky, Andrew Shadura
497 \Contact <andrew [at] shadura [dot] me> ,
498 bosnian.ldf = Samir Halilcevic %% Halilčević
499 \Contact <samir [dot] halilcevic [at] fet [dot] ba> ,
500 bulgarian.ldf = Georgi N. Boshnakov
501 \Contact <Georgi Boshnakov [at] manchester [dot] ac [dot] uk> ,

```


502 croatian.ldf = Ivan Kokan
503 \Contact <ivan [dot] kokan [at] gmail [dot] com> ,
504 estonian.ldf = Jaan Vajakas
505 \Contact <jaanvajakas [at] hot [dot] ee> ,
506 frenchb.ldf = Daniel Flipo
507 \Contact <daniel [dot] flipo [at] free [dot] fr> ,
508 friulan.ldf = Claudio Beccari
509 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
510 georgian.ldf = Levan Shoshiashvili
511 \Contact <shoshia [at] hotmail [dot] com> ,
512 austrian.ldf = Juergen Spitzmueller
513 \Contact <juergen [at] spitzmueller [dot] org> ,
514 german.ldf = Juergen Spitzmueller
515 \Contact <juergen [at] spitzmueller [dot] org> ,
516 germanb.ldf = Juergen Spitzmueller
517 \Contact <juergen [at] spitzmueller [dot] org> ,
518 naustrian.ldf = Juergen Spitzmueller
519 \Contact <juergen [at] spitzmueller [dot] org> ,
520 ngerman.ldf = Juergen Spitzmueller
521 \Contact <juergen [at] spitzmueller [dot] org> ,
522 ngermanb.ldf = Juergen Spitzmueller
523 \Contact <juergen [at] spitzmueller [dot] org> ,
524 nswissgerman.ldf = Juergen Spitzmueller
525 \Contact <juergen [at] spitzmueller [dot] org> ,
526 swissgerman.ldf = Juergen Spitzmueller
527 \Contact <juergen [at] spitzmueller [dot] org> ,
528 greek.ldf = Guenter Milde
529 \Contact <milde [at] users [dot] sf [dot] net> ,
530 magyar.ldf = Peter Szabo %% Péter Szabó
531 \Contact <<http://www.math.bme.hu/latex/>> ,
532 italian.ldf = Claudio Beccari
533 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
534 japanese.ldf = Japanese TEX Development Community
535 \Contact <<https://github.com/texjporg/babel-japanese>> ,
536 latin.ldf = Claudio Beccari
537 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
538 macedonian.ldf = Stojan Trajanovski
539 \Contact <stojan [dot] trajanovski [at] gmail [dot] com> ,
540 occitan.ldf = Cedric Valmary %% Cédric Valmary
541 \Contact <cvalmary [at] yahoo [dot] fr> ,
542 piedmontese.ldf = Claudio Beccari
543 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
544 pinyin.ldf = Werner Lemberg
545 \Contact <wl [at] gnu [dot] org> ,
546 romansh.ldf = Claudio Beccari
547 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
548 russain.ldf = Igor A [dot] Kotelnikov
549 \Contact <kia999 [at] mail [dot] ru> ,
550 serbianc.ldf = Filip Brcic
551 \Contact <brcha [at] users [dot] sourceforge [dot] net> ,


```

552 spanish.ldf = J [dot] Luis Rivera
553 \Contact <jlrm77 [at] gmail [dot] com> ,
554 spanish.ldf = Javier Bezos
555 \Contact <http://www.texnia.com/contact.html> ,
556 thaicjk.ldf = Werner Lemberg
557 \Contact <wl [at] gnu [dot] org> ,
558 ukraineb.ldf = Sergiy Ponomarenko
559 \Contact <sergiy [dot] ponomarenko [at] gmail [dot] com> ,
560 vietnamese.ldf = Werner Lemberg
561 \Contact <wl [at] gnu [dot] org> ,
562 %----- LAST LINE
563 {\latexbug@empty} = {} ,

Keep the data but throw away the loop function.

564 \endgroup

\latexbug@addtofilelist Save the kernel version of \@addtofilelist.
565 \let\latexbug@addtofilelist\@addtofilelist

\latexbug@zzzz Storage for third-party files and those from the LATEX3 set on GitHub.
\latexbug@expl 566 \def\latexbug@zzzz{}
567 \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.

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

```



```

590             to submitting the bug report.\MessageBreak
591             Otherwise it is likely to be rejected!}%
592     \fi
593 \else
594     \PackageError{latexbug}%
595         {Third-party file(s)\MessageBreak
596 \MessageBreak
597 This test file uses third-party file(s)\MessageBreak
598 \MessageBreak
599         =====\MessageBreak
600         \latexbug@zzzz
601         =====\MessageBreak
602         \MessageBreak
603 So you should contact the authors\MessageBreak
604 of these files, not the LaTeX Team!\MessageBreak
605 (Or remove the packages that load\MessageBreak
606 them, if they are not necessary to\MessageBreak
607 exhibit the problem).\MessageBreak
608 \MessageBreak
609 If you think the bug is in core LaTeX\MessageBreak
610 (as maintained by the LaTeX Team) but\MessageBreak
611 these files are needed to demonstrate\MessageBreak
612 the problem, please continue and mention\MessageBreak
613 this explicitly in your bug report\MessageBreak
614 (with an explanation why you think so)}{Please
615         correct your test file prior
616         to submitting the bug report.\MessageBreak
617         Otherwise it is likely to be rejected!}%
618 \fi
619 }

```

`\@addtofilelist` First, a test to see if we are at the top level: there's no need to test dependencies
`\latexbug@iftoplevel` 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 L^AT_EX3 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.

```

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

```



```

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

```