The `latexbug` package[*]

The LaTeX Team

2022/06/14

> 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.

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

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[*]This file has version number v1.0n, last revised 2022/06/14.

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 and footmisc 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)                 ==============
(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). 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.

It is also possible that latexbug doesn't generate an error, but issues a warning, that it has detected one or more packages, that have their own bug tracker. In that case the report should be made in the bug tracker of that package and not in the LaTeX 2$_\varepsilon$, even if it is a package that is mainted by us!

Other people look these bug tracker to search for known problems and thus it is best if yours is recorded in the right place. Such a warning will look like this (we use hyperref as an example):

```
Package latexbug Warning: Special bug tracker!
(latexbug)
(latexbug)                     This test file uses the following file(s)
(latexbug)
(latexbug)                     ==============
(latexbug)                     hyperref.sty  ->  Report at:
(latexbug)                         https://github.com/latex3/hyperref/issues
(latexbug)                     ==============
(latexbug)
(latexbug)                     Please note that these files have their own
(latexbug)                     bug tracker and your issue should therefore
(latexbug)                     be reported in the indicated repository.
(latexbug)
(latexbug)                     If they are not necessary to exhibit the problem,
(latexbug)                     remove them from your example and rerun it,
(latexbug)                     otherwise report the issue in the listed repository.
(latexbug)
(latexbug)                     If different repositories are listed, try to
(latexbug)                     select the most appropriate one (but don't worry
(latexbug)                     too much, if the choice is not clear to you).
```

> *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*` (the star means we maintain it, but in some repository other that `latex2e` — either `latex3` (default) or some other we point to, 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 without giving any warning).

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}[2022/06/14 v1.0n 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@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 #3, {% spaces matter
24   \global\@namedef{latexbug@@#1}{{#2}{#3}}%
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 or other repositories we suport) entries, but they need to go to a different GitHub repository, so are handled separately (and only show up if there are no third-party packages). For the `latex3/latex3` repository just write `us*`, for others one need to specify the full details, e.g.,

```
hyperref.sty = us*
              \Contact https://github.com/latex3/hyperref/issues ,
```

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 and before the comma (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 atbegshi-ltx.sty = us ,
38 atveryend-ltx.sty = us ,
39 bezier.sty = us ,
40 bk10.clo = us ,
41 bk11.clo = us ,
```

```
42 bk12.clo = us ,
43 book.cls = us ,
44 book.sty = us ,
45 cp1250.def = us ,
46 cp1252.def = us ,
47 cp1257.def = us ,
48 cp437.def = us ,
49 cp437de.def = us ,
50 cp850.def = us ,
51 cp852.def = us ,
52 cp858.def = us ,
53 cp865.def = us ,
54 decmulti.def = us ,
55 doc-v3beta.sty = us ,
56 doc.sty = us ,
57 docstrip.tex = us ,
58 exscale.sty = us ,
59 fix-cm.sty = us ,
60 fixltx2e.sty = us ,
61 flafter.sty = us ,
62 fleqn.clo = us ,
63 fleqn.sty = us ,
64 fltrace.sty = us ,
65 fontenc.sty = us ,
66 fontmath.cfg = us ,
67 fontmath.ltx = us ,
68 fonttext.cfg = us ,
69 fonttext.ltx = us ,
70 graphpap.sty = us ,
71 hyphen.ltx = us ,
72 idx.tex = us ,
73 ifthen.sty = us ,
74 inputenc.sty = us ,
75 lablst.tex = us ,
76 latex.ltx = us ,
77 latex209.def = us ,
78 latexrelease.sty = us ,
79 latexsym.sty = us ,
80 latin1.def = us ,
81 latin10.def = us ,
82 latin2.def = us ,
83 latin3.def = us ,
84 latin4.def = us ,
85 latin5.def = us ,
86 latin9.def = us ,
87 lcyenc.dfu = us ,
88 leqno.clo = us ,
89 leqno.sty = us ,
90 letter.cls = us ,
91 letter.sty = us ,
92 lppl.tex = us ,
93 ltluatex.lua = us ,
94 ltluatex.lua = us ,
95 ltluatex.tex = us ,
```

```
 96 ltluatex.tex = us ,
 97 ltnews.cls = us ,
 98 ltxcheck.tex = us ,
 99 ltxdoc.cls = us ,
100 ltxdoc.cfg = us ,
101 ltxguide.cls = us ,
102 ly1enc.dfu = us ,
103 macce.def = us ,
104 makeidx.sty = us ,
105 minimal.cls = us ,
106 newlfont.sty = us ,
107 next.def = us ,
108 nfssfont.tex = us ,
109 oldlfont.sty = us ,
110 omlcmm.fd = us ,
111 omlcmr.fd = us ,
112 omlenc.def = us ,
113 omllcmm.fd = us ,
114 omscmr.fd = us ,
115 omscmsy.fd = us ,
116 omsenc.def = us ,
117 omsenc.dfu = us ,
118 omslcmsy.fd = us ,
119 omxcmex.fd = us ,
120 omxlcmex.fd = us ,
121 openbib.sty = us ,
122 ot1cmdh.fd = us ,
123 ot1cmfib.fd = us ,
124 ot1cmfr.fd = us ,
125 ot1cmr.fd = us ,
126 ot1cmss.fd = us ,
127 ot1cmtt.fd = us ,
128 ot1cmvtt.fd = us ,
129 ot1enc.def = us ,
130 ot1enc.dfu = us ,
131 ot1lcmss.fd = us ,
132 ot1lcmtt.fd = us ,
133 ot2enc.dfu = us ,
134 ot4enc.def = us ,
135 preload.cfg = us ,
136 preload.ltx = us ,
137 proc.cls = us ,
138 proc.sty = us ,
139 report.cls = us ,
140 report.sty = us ,
141 sample2e.tex = us ,
142 sfonts.def = us ,
143 shortvrb.sty = us ,
144 showidx.sty = us ,
145 size10.clo = us ,
146 size11.clo = us ,
147 size12.clo = us ,
148 slides.cls = us ,
149 slides.def = us ,
```

```
150 slides.sty = us ,
151 small2e.tex = us ,
152 source2e.tex = us ,
153 source2edoc.cls = us ,
154 structuredlog.sty = us ,
155 syntonly.sty = us ,
156 t1cmdh.fd = us ,
157 t1cmfib.fd = us ,
158 t1cmfr.fd = us ,
159 t1cmr.fd = us ,
160 t1cmss.fd = us ,
161 t1cmtt.fd = us ,
162 t1cmvtt.fd = us ,
163 t1enc.def = us ,
164 t1enc.dfu = us ,
165 t1enc.sty = us ,
166 t1lcmss.fd = us ,
167 t1lcmtt.fd = us ,
168 t2aenc.dfu = us ,
169 t2benc.dfu = us ,
170 t2cenc.dfu = us ,
171 testpage.tex = us ,
172 texsys.cfg = us ,
173 textcomp-2018-08-11.sty = us ,
174 textcomp.sty = us ,
175 tracefnt.sty = us ,
176 ts1cmr.fd = us ,
177 ts1cmss.fd = us ,
178 ts1cmtt.fd = us ,
179 ts1cmvtt.fd = us ,
180 ts1enc.def = us ,
181 ts1enc.dfu = us ,
182 tuenc.def = us ,
183 tulmdh.fd = us ,
184 tulmr.fd = us ,
185 tulmss.fd = us ,
186 tulmssq.fd = us ,
187 tulmtt.fd = us ,
188 tulmvtt.fd = us ,
189 ucmr.fd = us ,
190 ucmss.fd = us ,
191 ucmtt.fd = us ,
192 ulasy.fd = us ,
193 ullasy.fd = us ,
194 utf8-2018.def = us ,
195 utf8.def = us ,
196 utf8enc.dfu = us ,
197 x2enc.dfu = us ,
198 %------------------------------ tools
199 afterpage.sty = us ,
200 array-2016-10-06.sty = us ,
201 array-2020-02-10.sty = us ,
202 array.sty = us ,
203 bm.sty = us ,
```

```
204 calc.sty = us ,
205 dcolumn.sty = us ,
206 delarray.sty = us ,
207 e.tex = us ,
208 enumerate.sty = us ,
209 fontsmpl.sty = us ,
210 fontsmpl.tex = us ,
211 ftnright.sty = us ,
212 h.tex = us ,
213 hhline.sty = us ,
214 indentfirst.sty = us ,
215 layout.sty = us ,
216 longtable-2020-01-07.sty = us ,
217 longtable.sty = us ,
218 multicol-2017-04-11.sty = us ,
219 multicol.sty = us ,
220 q.tex = us ,
221 r.tex = us ,
222 rawfonts.sty = us ,
223 s.tex = us ,
224 shellesc.sty = us ,
225 showkeys.sty = us ,
226 somedefs.sty = us ,
227 tabularx.sty = us ,
228 thb.sty = us ,
229 thc.sty = us ,
230 thcb.sty = us ,
231 theorem.sty = us ,
232 thm.sty = us ,
233 thmb.sty = us ,
234 thp.sty = us ,
235 trace.sty = us ,
236 varioref-2016-02-16.sty = us ,
237 varioref.sty = us ,
238 verbatim.sty = us ,
239 verbtest.tex = us ,
240 x.tex = us ,
241 xr.sty = us ,
242 xspace.sty = us ,
243 %------------------------------ babel (locale files)
244 babel-slovenian.tex = ignore ,
245 babel-slovene.tex = ignore ,
246 babel-slovak.tex = ignore ,
247 babel-urdu.tex = ignore ,
248 babel-northernkurdish.tex = ignore ,
249 babel-kurmanji.tex = ignore ,
250 babel-northernkurdish-arabic.tex = ignore ,
251 babel-northernkurdish-arab.tex = ignore ,
252 babel-northernsami.tex = ignore ,
253 babel-samin.tex = ignore ,
254 babel-soga.tex = ignore ,
255 babel-swahili.tex = ignore ,
256 babel-cherokee.tex = ignore ,
257 babel-koyrachiini.tex = ignore ,
```

```
258 babel-kabyle.tex = ignore ,
259 babel-uyghur.tex = ignore ,
260 babel-kako.tex = ignore ,
261 babel-uzbek.tex = ignore ,
262 babel-uzbek-latn.tex = ignore ,
263 babel-uzbek-arabic.tex = ignore ,
264 babel-uzbek-cyrillic.tex = ignore ,
265 babel-uzbek-latin.tex = ignore ,
266 babel-uzbek-arab.tex = ignore ,
267 babel-uzbek-cyrl.tex = ignore ,
268 babel-polish.tex = ignore ,
269 babel-rombo.tex = ignore ,
270 babel-vietnam.tex = ignore ,
271 babel-vietnamese.tex = ignore ,
272 babel-masai.tex = ignore ,
273 babel-albanian.tex = ignore ,
274 babel-kamba.tex = ignore ,
275 babel-swedish.tex = ignore ,
276 babel-irish.tex = ignore ,
277 babel-hebrew.tex = ignore ,
278 babel-inarisami.tex = ignore ,
279 babel-malay.tex = ignore ,
280 babel-malay-singapore.tex = ignore ,
281 babel-malay-sg.tex = ignore ,
282 babel-malay-brunei.tex = ignore ,
283 babel-malay-bn.tex = ignore ,
284 babel-mazanderani.tex = ignore ,
285 babel-khmer.tex = ignore ,
286 babel-maltese.tex = ignore ,
287 babel-tasawaq.tex = ignore ,
288 babel-bemba.tex = ignore ,
289 babel-armenian.tex = ignore ,
290 babel-amharic.tex = ignore ,
291 babel-zarma.tex = ignore ,
292 babel-nynorsk.tex = ignore ,
293 babel-norwegiannynorsk.tex = ignore ,
294 babel-belarusian.tex = ignore ,
295 babel-danish.tex = ignore ,
296 babel-kalaallisut.tex = ignore ,
297 babel-shambala.tex = ignore ,
298 babel-marathi.tex = ignore ,
299 babel-kazakh.tex = ignore ,
300 babel-norsk.tex = ignore ,
301 babel-norwegian.tex = ignore ,
302 babel-akan.tex = ignore ,
303 babel-kyrgyz.tex = ignore ,
304 babel-gujarati.tex = ignore ,
305 babel-samburu.tex = ignore ,
306 babel-dzongkha.tex = ignore ,
307 babel-malagasy.tex = ignore ,
308 babel-mongolian.tex = ignore ,
309 babel-cornish.tex = ignore ,
310 babel-walser.tex = ignore ,
311 babel-yangben.tex = ignore ,
```

```
312 babel-sangu.tex = ignore ,
313 babel-bambara.tex = ignore ,
314 babel-centralatlastamazight.tex = ignore ,
315 babel-ancientgreek.tex = ignore ,
316 babel-machame.tex = ignore ,
317 babel-sichuanyi.tex = ignore ,
318 babel-ewe.tex = ignore ,
319 babel-hawaiian.tex = ignore ,
320 babel-japanese.tex = ignore ,
321 babel-churchslavonic.tex = ignore ,
322 babel-churchslavic.tex = ignore ,
323 babel-churchslavic-cyrs.tex = ignore ,
324 babel-churchslavic-glagolitic.tex = ignore ,
325 babel-churchslavic-glag.tex = ignore ,
326 babel-churchslavic-oldcyrillic.tex = ignore ,
327 babel-polytonicgreek.tex = ignore ,
328 babel-greek.tex = ignore ,
329 babel-monotonicgreek.tex = ignore ,
330 babel-igbo.tex = ignore ,
331 babel-latvian.tex = ignore ,
332 babel-occitan.tex = ignore ,
333 babel-westernfrisian.tex = ignore ,
334 babel-luxembourgish.tex = ignore ,
335 babel-italian.tex = ignore ,
336 babel-oromo.tex = ignore ,
337 babel-catalan.tex = ignore ,
338 babel-icelandic.tex = ignore ,
339 babel-czech.tex = ignore ,
340 babel-interlingua.tex = ignore ,
341 babel-telugu.tex = ignore ,
342 babel-friulian.tex = ignore ,
343 babel-vai-latin.tex = ignore ,
344 babel-vai-vaii.tex = ignore ,
345 babel-vai.tex = ignore ,
346 babel-vai-latn.tex = ignore ,
347 babel-vai-vai.tex = ignore ,
348 babel-russian.tex = ignore ,
349 babel-turkmen.tex = ignore ,
350 babel-jolafonyi.tex = ignore ,
351 babel-rundi.tex = ignore ,
352 babel-konkani.tex = ignore ,
353 babel-piedmontese.tex = ignore ,
354 babel-standardmoroccantamazight.tex = ignore ,
355 babel-quechua.tex = ignore ,
356 babel-meru.tex = ignore ,
357 babel-nyankole.tex = ignore ,
358 babel-romanian-md.tex = ignore ,
359 babel-romanian-moldova.tex = ignore ,
360 babel-romanian.tex = ignore ,
361 babel-moldavian.tex = ignore ,
362 babel-luo.tex = ignore ,
363 babel-usorbian.tex = ignore ,
364 babel-uppersorbian.tex = ignore ,
365 babel-yoruba.tex = ignore ,
```

```
366 babel-syriac.tex = ignore ,
367 babel-makhuwameetto.tex = ignore ,
368 babel-northernluri.tex = ignore ,
369 babel-aghem.tex = ignore ,
370 babel-meta.tex = ignore ,
371 babel-zulu.tex = ignore ,
372 babel-centralkurdish-latin.tex = ignore ,
373 babel-centralkurdish-latn.tex = ignore ,
374 babel-sorani.tex = ignore ,
375 babel-centralkurdish.tex = ignore ,
376 babel-cantonese.tex = ignore ,
377 babel-makonde.tex = ignore ,
378 babel-somali.tex = ignore ,
379 babel-sanskrit.tex = ignore ,
380 babel-sanskrit-telu.tex = ignore ,
381 babel-sanskrit-malayalam.tex = ignore ,
382 babel-sanskrit-devanagari.tex = ignore ,
383 babel-sanskrit-bengali.tex = ignore ,
384 babel-sanskrit-gujr.tex = ignore ,
385 babel-sanskrit-gujarati.tex = ignore ,
386 babel-sanskrit-deva.tex = ignore ,
387 babel-sanskrit-telugu.tex = ignore ,
388 babel-sanskrit-knda.tex = ignore ,
389 babel-sanskrit-beng.tex = ignore ,
390 babel-sanskrit-kannada.tex = ignore ,
391 babel-sanskrit-mlym.tex = ignore ,
392 babel-chiga.tex = ignore ,
393 babel-teso.tex = ignore ,
394 babel-yiddish.tex = ignore ,
395 babel-portuguese.tex = ignore ,
396 babel-brazilian.tex = ignore ,
397 babel-portuguese-portugal.tex = ignore ,
398 babel-portuguese-br.tex = ignore ,
399 babel-portuguese-brazil.tex = ignore ,
400 babel-portuguese-pt.tex = ignore ,
401 babel-pashto.tex = ignore ,
402 babel-embu.tex = ignore ,
403 babel-chinese-hans-mo.tex = ignore ,
404 babel-chinese-hant-hk.tex = ignore ,
405 babel-chinese-simplified.tex = ignore ,
406 babel-chinese-hans-hk.tex = ignore ,
407 babel-chinese-hant.tex = ignore ,
408 babel-chinese-simplified-singapore.tex = ignore ,
409 babel-chinese-simplified-hongkongsarchina.tex = ignore ,
410 babel-chinese-hans-sg.tex = ignore ,
411 babel-chinese-hans.tex = ignore ,
412 babel-chinese-traditional-macausarchina.tex = ignore ,
413 babel-chinese.tex = ignore ,
414 babel-chinese-hant-mo.tex = ignore ,
415 babel-chinese-traditional.tex = ignore ,
416 babel-chinese-simplified-macausarchina.tex = ignore ,
417 babel-chinese-traditional-hongkongsarchina.tex = ignore ,
418 babel-ukrainian.tex = ignore ,
419 babel-serbian-latn-me.tex = ignore ,
```

```
420 babel-serbian-latin-kosovo.tex = ignore ,
421 babel-serbian-latn.tex = ignore ,
422 babel-serbian-cyrl-me.tex = ignore ,
423 babel-serbian-cyrillic-montenegro.tex = ignore ,
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995 babel-luyia = ignore ,
996 babel-nuer = ignore ,
997 %------------------------------- babel (part supported by us)
998 UKenglish.sty = us ,
999 USenglish.sty = us ,
1000 afrikaans.sty = us ,
1001 albanian.sty = us ,
1002 american.sty = us ,
1003 austrian.sty = us ,
1004 babel.def = us ,
1005 babel.sty = us ,
1006 bahasa.sty = us ,
1007 bahasam.sty = us ,
1008 basque.sty = us ,
1009 blplain.tex = us ,
1010 bplain.tex = us ,
1011 breton.sty = us ,
1012 british.sty = us ,
1013 bulgarian.sty = us ,
```

```
1014 catalan.sty = us ,
1015 croatian.sty = us ,
1016 czech.sty = us ,
1017 danish.sty = us ,
1018 dutch.sty = us ,
1019 english.sty = us ,
1020 esperanto.sty = us ,
1021 estonian.sty = us ,
1022 finnish.sty = us ,
1023 francais.sty = us ,
1024 galician.sty = us ,
1025 germanb.sty = us ,
1026 greek.sty = us ,
1027 hebrew.sty = us ,
1028 hyphen.cfg = us ,
1029 icelandic.sty = us ,
1030 interlingua.sty = us ,
1031 irish.sty = us ,
1032 italian.sty = us ,
1033 latin.sty = us ,
1034 lsorbian.sty = us ,
1035 luababel.def = us ,
1036 magyar.sty = us ,
1037 naustrian.sty = us ,
1038 ngermanb.sty = us ,
1039 nil.ldf = us ,
1040 norsk.sty = us ,
1041 plain.def = us ,
1042 polish.sty = us ,
1043 portuges.sty = us ,
1044 romanian.sty = us ,
1045 russianb.sty = us ,
1046 samin.sty = us ,
1047 scottish.sty = us ,
1048 serbian.sty = us ,
1049 slovak.sty = us ,
1050 slovene.sty = us ,
1051 spanish.sty = us ,
1052 swedish.sty = us ,
1053 switch.def = us ,
1054 turkish.sty = us ,
1055 ukraineb.sty = us ,
1056 usorbian.sty = us ,
1057 welsh.sty = us ,
1058 xebabel.def = us ,
1059 %------------------------------- graphics + graphics-def
1060 color.cfg = us ,
1061 color.sty = us ,
1062 dvipdf.def = us ,
1063 dvipdfmx.def = us ,
1064 dvips.def = us ,
1065 dvipsnam.def = us ,
1066 dvipsone.def = us ,
1067 dvisvgm.def = us ,
```

```
1068 dviwin.def = us ,
1069 emtex.def = us ,
1070 epsfig.sty = us ,
1071 graphics-2017-06-25.sty = us ,
1072 graphics.cfg = us ,
1073 graphics.sty = us ,
1074 graphicx.sty = us ,
1075 keyval.sty = us ,
1076 lscape.sty = us ,
1077 luatex.def = us ,
1078 mathcolor.ltx = us ,
1079 pctex32.def = us ,
1080 pctexhp.def = us ,
1081 pctexps.def = us ,
1082 pctexwin.def = us ,
1083 pdftex.def = us ,
1084 rotating.sty = us ,
1085 rotating.sty = us ,
1086 tcidvi.def = us ,
1087 trig.sty = us ,
1088 truetex.def = us ,
1089 xetex.def = us ,
1090 %------------------------------ mfnfss
1091 oldgerm.sty = us ,
1092 ot1panr.fd = us ,
1093 ot1pss.fd = us ,
1094 pandora.sty = us ,
1095 uyfrak.fd = us ,
1096 uygoth.fd = us ,
1097 uyinit.fd = us ,
1098 uyswab.fd = us ,
1099 %------------------------------ firstaid
1100 everysel-ltx.sty = us ,
1101 filehook-ltx.sty = us ,
1102 %------------------------------ amsmath
1103 amsbsy.sty = us ,
1104 amscd.sty = us ,
1105 amsgen.sty = us ,
1106 amsmath-2018-12-01.sty = us ,
1107 amsmath.sty = us ,
1108 amsopn.sty = us ,
1109 amstex.sty = us ,
1110 amstext.sty = us ,
1111 amsxtra.sty = us ,
1112 %------------------------------ amscls (AMS)
1113 amsart.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1114 amsbook.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1115 amsbooka.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1116 amsdtx.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1117 amsldoc.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1118 amsmidx.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1119 amsproc.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1120 amsthm.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1121 upref.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
```

```
1122 %------------------------------ amsfonts (AMS)
1123 amsfonts.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1124 amssymb.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1125 cmmib57.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1126 eucal.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1127 eufrak.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1128 euscript.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
1129 ueuex.fd = ignore ,
1130 ueuf.fd = ignore ,
1131 ueur.fd = ignore ,
1132 ueus.fd = ignore ,
1133 umsa.fd = ignore ,
1134 umsb.fd = ignore ,
1135 %------------------------------ psnfss
1136 8rbch.fd = us ,
1137 8rpag.fd = us ,
1138 8rpbk.fd = us ,
1139 8rpcr.fd = us ,
1140 8rphv.fd = us ,
1141 8rpnc.fd = us ,
1142 8rppl.fd = us ,
1143 8rptm.fd = us ,
1144 8rput.fd = us ,
1145 8rpzc.fd = us ,
1146 avant.sty = us ,
1147 bookman.sty = us ,
1148 chancery.sty = us ,
1149 charter.sty = us ,
1150 courier.sty = us ,
1151 helvet.sty = us ,
1152 mathpazo.sty = us ,
1153 mathpple.sty = us ,
1154 mathptm.sty = us ,
1155 mathptmx.sty = us ,
1156 newcent.sty = us ,
1157 omlbch.fd = us ,
1158 omlpag.fd = us ,
1159 omlpbk.fd = us ,
1160 omlpcr.fd = us ,
1161 omlphv.fd = us ,
1162 omlpnc.fd = us ,
1163 omlppl.fd = us ,
1164 omlptm.fd = us ,
1165 omlptmcm.fd = us ,
1166 omlput.fd = us ,
1167 omlpzc.fd = us ,
1168 omlzplm.fd = us ,
1169 omlzpple.fd = us ,
1170 omlztmcm.fd = us ,
1171 omsbch.fd = us ,
1172 omspag.fd = us ,
1173 omspbk.fd = us ,
1174 omspcr.fd = us ,
1175 omsphv.fd = us ,
```

```
1176 omspnc.fd = us ,
1177 omsppl.fd = us ,
1178 omsptm.fd = us ,
1179 omsput.fd = us ,
1180 omspzc.fd = us ,
1181 omspzccm.fd = us ,
1182 omszplm.fd = us ,
1183 omszpple.fd = us ,
1184 omsztmcm.fd = us ,
1185 omxpsycm.fd = us ,
1186 omxzplm.fd = us ,
1187 omxzpple.fd = us ,
1188 omxztmcm.fd = us ,
1189 ot1bch.fd = us ,
1190 ot1pag.fd = us ,
1191 ot1pbk.fd = us ,
1192 ot1pcr.fd = us ,
1193 ot1phv.fd = us ,
1194 ot1pnc.fd = us ,
1195 ot1ppl.fd = us ,
1196 ot1pplj.fd = us ,
1197 ot1pplx.fd = us ,
1198 ot1ptm.fd = us ,
1199 ot1ptmcm.fd = us ,
1200 ot1put.fd = us ,
1201 ot1pzc.fd = us ,
1202 ot1zplm.fd = us ,
1203 ot1zpple.fd = us ,
1204 ot1ztmcm.fd = us ,
1205 palatino.sty = us ,
1206 pifont.sty = us ,
1207 t1bch.fd = us ,
1208 t1pag.fd = us ,
1209 t1pbk.fd = us ,
1210 t1pcr.fd = us ,
1211 t1phv.fd = us ,
1212 t1pnc.fd = us ,
1213 t1ppl.fd = us ,
1214 t1pplj.fd = us ,
1215 t1pplx.fd = us ,
1216 t1ptm.fd = us ,
1217 t1put.fd = us ,
1218 t1pzc.fd = us ,
1219 times.sty = us ,
1220 ts1bch.fd = us ,
1221 ts1pag.fd = us ,
1222 ts1pbk.fd = us ,
1223 ts1pcr.fd = us ,
1224 ts1phv.fd = us ,
1225 ts1pnc.fd = us ,
1226 ts1ppl.fd = us ,
1227 ts1pplj.fd = us ,
1228 ts1pplx.fd = us ,
1229 ts1ptm.fd = us ,
```

```
1230 ts1put.fd = us ,
1231 ts1pzc.fd = us ,
1232 ufplm.fd = us ,
1233 ufplmbb.fd = us ,
1234 upsy.fd = us ,
1235 upzd.fd = us ,
1236 utopia.sty = us ,
1237 %----------------------------- l3experimental
1238 l3benchmark.sty = us* ,
1239 l3bitset.sty = us* ,
1240 l3draw.sty = us* ,
1241 l3graphics.sty = us* ,
1242 l3sys-shell.sty = us* ,
1243 %----------------------------- l3packages
1244 xparse-2018-04-12.sty = us* ,
1245 xparse-2020-10-01.sty = us* ,
1246 xparse-generic.tex = us* ,
1247 xparse.ltx = us* ,
1248 xfp.sty = us* ,
1249 %----------------------------- l3kernel / expl3
1250 expl3-code.tex = ignore ,
1251 expl3.ltx  = ignore ,
1252 expl3.lua = us* ,
1253 expl3.sty  = us* ,
1254 l3backend-dvipdfmx.def = ignore ,
1255 l3backend-dvips.def = ignore ,
1256 l3backend-dvisvgm.def = ignore ,
1257 l3backend-luatex.def = ignore ,
1258 l3backend-pdfmode.def = ignore ,        % -- old
1259 l3backend-pdftex.def = ignore ,
1260 l3backend-xdvipdfmx.def = ignore ,      % -- old
1261 l3backend-xetex.def = ignore ,
1262 l3debug.def = us* ,
1263 l3deprecation.def = ignore ,
1264 l3doc.cls = us* ,
1265 l3docstrip.tex = us ,
1266 l3keys2e.sty = us* ,
1267 l3str-enc-iso88591.def = us* ,
1268 l3str-enc-iso885910.def = us* ,
1269 l3str-enc-iso885911.def = us* ,
1270 l3str-enc-iso885913.def = us* ,
1271 l3str-enc-iso885914.def = us* ,
1272 l3str-enc-iso885915.def = us* ,
1273 l3str-enc-iso885916.def = us* ,
1274 l3str-enc-iso88592.def = us* ,
1275 l3str-enc-iso88593.def = us* ,
1276 l3str-enc-iso88594.def = us* ,
1277 l3str-enc-iso88595.def = us* ,
1278 l3str-enc-iso88596.def = us* ,
1279 l3str-enc-iso88597.def = us* ,
1280 l3str-enc-iso88598.def = us* ,
1281 l3str-enc-iso88599.def = us* ,
1282 xcoffins.sty = us* ,
1283 xfrac.sty = us* ,
```

```
1284 xgalley.sty = us* ,
1285 xparse.sty = us* ,
1286 xtemplate.sty = us* ,
1287 %------------------------------ TAGGING PROJECT
1288 pdfmanagement-testphase.sty = us*
1289                 \Contact https://github.com/latex3/pdfresources/issues
1290 pdfmanagement-testphase.ltx = ignore ,
1291 %------------------------------ EXTERNAL PACKAGES SUPPORTED BY THE LaTeX Team
1292 hluatex.def  = ignore ,
1293 hpdftex.def  = ignore ,
1294 hxetex.def   = ignore ,
1295 hypdoc.sty = us ,
1296 hyperref.cfg = ignore ,
1297 hyperref.sty = us*
1298                 \Contact https://github.com/latex3/hyperref/issues ,
1299 hyperref-langpatches.def = ignore ,
1300 pd1enc.def   = ignore ,
1301 puenc.def    = ignore ,
1302 xcolor.sty = us*
1303        \Contact https://github.com/latex3/xcolor/issues ,
1304 %------------------------------ PACKAGES BY MEMBERS OF THE LaTeX Team
1305 beamer.cls   = Joseph Wright
1306                 \Contact https://github.com/josephwright/beamer/issues ,
1307 dashundergaps.sty = Frank Mittelbach
1308                 \Contact https://github.com/FrankMittelbach/fmitex-dashundergaps/issues ,
1309 fewerfloatpages.sty = Frank Mittelbach
1310                 \Contact https://github.com/FrankMittelbach/fmitex-fewerfloatpages ,
1311 fontspec.sty = Will Robertson
1312                 \Contact https://github.com/wspr/fontspec/issues ,
1313 luatex85.sty   = Joseph Wright
1314                 \Contact https://github.com/josephwright/luatex85/issues ,
1315 parskip.sty = Frank Mittelbach
1316                 \Contact https://github.com/FrankMittelbach/fmitex-parskip/issues ,
1317 siunitx.sty   = Joseph Wright
1318                 \Contact https://github.com/josephwright/siunitx/issues ,
1319 widows-and-orphans.sty = Frank Mittelbach
1320                 \Contact https://github.com/FrankMittelbach/fmitex-widows-and-orphans/issues
1321 %------------------------------ USEFUL FOR BUG REPORTS
1322 blindtext.sty = ignore ,
1323 etoolbox.sty = ignore ,
1324 kantlipsum.sty   = ignore ,
1325 lipsum.ltd   = ignore ,
1326 lipsum.sty   = ignore ,
1327 %------------------------------ EXTERNALLY SUPPORTED
1328 %
1329 geometry.sty = Hideo Umeki
1330                 \Contact <latexgeometry [at] gmail [dot] com> ,
1331 %------------------------------ babel external
1332 basque.ldf       = Juan M. Aguirregabiria
1333                 \Contact <http://tp.lc.ehu.es/jma.html> ,
1334 belarusian.ldf  = Aleksey Novodvorsky and Andrew Shadura
1335                 \Contact <andrew [at] shadura [dot] me> ,
1336 bosnian.ldf      = Samir Halilcevic %% Halilčević
1337                 \Contact <samir [dot] halilcevic [at] fet [dot] ba> ,
```

```
1338 bulgarian.ldf   = Georgi N. Boshnakov
1339                   \Contact <Georgi Boshnakov [at] manchester [dot] ac [dot] uk> ,
1340 croatian.ldf    = Ivan Kokan
1341                   \Contact <ivan [dot] kokan [at] gmail [dot] com> ,
1342 estonian.ldf    = Jaan Vajakas
1343                   \Contact <jaanvajakas [at] hot [dot] ee> ,
1344 frenchb.ldf     = Daniel Flipo
1345                   \Contact <daniel [dot] flipo [at] free [dot] fr> ,
1346 friulan.ldf     = Claudio Beccari
1347                   \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1348 georgian.ldf    = Levan Shoshiashvili
1349                   \Contact <shoshia [at] hotmail [dot] com> ,
1350 austrian.ldf    = Juergen Spitzmueller
1351                   \Contact <juergen [at] spitzmueller [dot] org> ,
1352 german.ldf      = Juergen Spitzmueller
1353                   \Contact <juergen [at] spitzmueller [dot] org> ,
1354 germanb.ldf     = Juergen Spitzmueller
1355                   \Contact <juergen [at] spitzmueller [dot] org> ,
1356 naustrian.ldf   = Juergen Spitzmueller
1357                   \Contact <juergen [at] spitzmueller [dot] org> ,
1358 ngerman.ldf     = Juergen Spitzmueller
1359                   \Contact <juergen [at] spitzmueller [dot] org> ,
1360 ngermanb.ldf    = Juergen Spitzmueller
1361                   \Contact <juergen [at] spitzmueller [dot] org> ,
1362 nswissgerman.ldf = Juergen Spitzmueller
1363                   \Contact <juergen [at] spitzmueller [dot] org> ,
1364 swissgerman.ldf = Juergen Spitzmueller
1365                   \Contact <juergen [at] spitzmueller [dot] org> ,
1366 greek.ldf       = Guenter Milde
1367                   \Contact <milde [at] users [dot] sf [dot] net> ,
1368 magyar.ldf      = Peter Szabo %% Péter Szabó
1369                   \Contact <http://www.math.bme.hu/latex/> ,
1370 italian.ldf     = Claudio Beccari
1371                   \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1372 japanese.ldf    = Japanese TEX Development Community
1373                   \Contact <https://github.com/texjporg/babel-japanese> ,
1374 latin.ldf       = Claudio Beccari
1375                   \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1376 macedonian.ldf  = Stojan Trajanovski
1377                   \Contact <stojan [dot] trajanovski [at] gmail [dot] com> ,
1378 occitan.ldf     = Cedric Valmary %% Cédric Valmary
1379                   \Contact <cvalmary [at] yahoo [dot] fr> ,
1380 piedmontese.ldf = Claudio Beccari
1381                   \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1382 pinyin.ldf      = Werner Lemberg
1383                   \Contact <wl [at] gnu [dot] org> ,
1384 romansh.ldf     = Claudio Beccari
1385                   \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1386 russain.ldf     = Igor A [dot]  Kotelnikov
1387                   \Contact <kia999 [at] mail [dot] ru> ,              % -- old?
1388 serbianc.ldf    = Filip Brcic
1389                   \Contact <brcha [at] users [dot] sourceforge [dot] net> ,
1390 spanglish.ldf   = J [dot]  Luis Rivera
1391                   \Contact <jlrn77 [at] gmail [dot] com> ,           % -- old?
```

```
1392 spanish.ldf     = Javier Bezos
1393                   \Contact <http://www.texnia.com/contact.html> ,
1394 thaicjk.ldf     = Werner Lemberg
1395                   \Contact <wl [at] gnu [dot] org> ,
1396 ukraineb.ldf    = Sergiy Ponomarenko
1397                   \Contact <sergiy [dot] ponomarenko [at] gmail [dot] com> ,
1398 vietnamese.ldf  = Werner Lemberg
1399                   \Contact <wl [at] gnu [dot] org> ,
1400 %------------------------------ LAST LINE
1401 {\latexbug@empty} = {} ,
```

Keep the data but throw away the loop function.

```
1402 \endgroup
```

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

```
1403 \let\latexbug@addtofilelist\@addtofilelist
```

\latexbug@zzzz Storage for third-party files and those from the LaTeX3 set on GitHub.
\latexbug@own
```
1404 \def\latexbug@zzzz{}
1405 \def\latexbug@own{}
```

\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@own have
any content then there is a message to issue, it's just a question of deciding which
one.

```
1406 \let\latexbug@process@table\process@table
1407 \def\process@table{\global\let\@addtofilelist\latexbug@addtofilelist
1408   \latexbug@process@table
1409   \ifx\latexbug@zzzz\latexbug@empty
1410     \ifx\latexbug@own\latexbug@empty
1411     \else
1412       \typeout{}%
1413       \PackageWarningNoLine{latexbug}%
1414         {Special bug tracker!\MessageBreak
1415 \MessageBreak
1416 This test file uses the following file(s)\MessageBreak
1417 \MessageBreak
1418         ==============\MessageBreak
1419         \latexbug@own
1420         ==============\MessageBreak
1421         \MessageBreak
1422 Please note that these files have their own\MessageBreak
1423 bug tracker and your issue should therefore\MessageBreak
1424 be reported in the indicated repository.\MessageBreak
1425         \MessageBreak
1426 If they are not necessary to exhibit the problem,\MessageBreak
1427 remove them from your example and rerun it,\MessageBreak
1428 otherwise report the  issue in the listed repository.\MessageBreak
1429         \MessageBreak
1430 If different repositories are listed, try to\MessageBreak
1431 select the most appropriate one (but don't worry\MessageBreak
1432 too much, if the choice is not clear to you)}%
1433       \typeout{}%
1434     \fi
```

```
1435     \else
1436         \PackageError{latexbug}%
1437                       {Third-party file(s)\MessageBreak
1438 \MessageBreak
1439 This test file uses third-party file(s)\MessageBreak
1440 \MessageBreak
1441         ==============\MessageBreak
1442         \latexbug@zzzz
1443         ==============\MessageBreak
1444         \MessageBreak
1445 So you should contact the authors\MessageBreak
1446 of these files, not the LaTeX Team!\MessageBreak
1447 (Or remove the packages that load\MessageBreak
1448 them, if they are not necessary to\MessageBreak
1449 exhibit the problem).\MessageBreak
1450 \MessageBreak
1451 If you think the bug is in core LaTeX\MessageBreak
1452 (as maintained by the LaTeX Team) but\MessageBreak
1453 these files are needed to demonstrate\MessageBreak
1454 the problem, please continue and mention\MessageBreak
1455 this explicitly in your bug report\MessageBreak
1456 (with an explanation why you think so)}{Please
1457                       correct your test file prior
1458                       to submitting the bug report.\MessageBreak
1459                       Otherwise it is likely to be rejected!}%
1460     \fi
1461 }
```

\@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 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.

```
1462 \def\@addtofilelist#1{%
1463    \expandafter\latexbug@iftoplevel\@currnamestack {}\@nil
1464    \begingroup
1465        \xdef\latexbug@x{#1}% TODO: one-level sanitize
1466        \expandafter
1467        \ifx\csname latexbug@@\latexbug@x\endcsname\relax
1468            \def\latexbug@y{}%
1469        \else
```

\latexbug@y will contain either on of the keywords us or us* or ignore or it will
contain the start part of the third-party information, \latexbug@z contains the
rest (if anything), the space between the two is lost and needs to be reinserted.

```
1470        \xdef\latexbug@y{\expandafter\expandafter\expandafter
1471            \@firstoftwo\csname latexbug@@\latexbug@x\endcsname}%
1472        \xdef\latexbug@z{\expandafter\expandafter\expandafter
1473            \@secondoftwo\csname latexbug@@\latexbug@x\endcsname}%
1474        \fi
1475    \ifx\latexbug@y\latexbug@us\else
1476        \ifx\latexbug@y\latexbug@usstar
1477            \begingroup
```

```
1478            \let\MessageBreak\relax
1479            \xdef\latexbug@own{%
1480              \latexbug@own\latexbug@x
1481              \space\space -> \space Report at:
1482          \ifx\latexbug@z\@empty
1483            \Contact https://github.com/latex3/latex3/issues
1484          \else
1485            \latexbug@z
1486          \fi
1487              \MessageBreak
1488            }%
1489          \endgroup
1490        \else
1491          \ifx\latexbug@y\latexbug@ignore\else
1492            {\let\MessageBreak\relax
1493              \xdef\latexbug@zzzz{\latexbug@zzzz\latexbug@x
1494                \ifx\latexbug@y\latexbug@empty\else
1495                  \space\space -> \space \latexbug@y
1496                                  \space \latexbug@z
1497                \fi
1498                \MessageBreak}}%
1499          \fi
1500        \fi
1501      \fi
1502      \endgroup
1503    \fi
1504    \latexbug@addtofilelist{#1}}
1505 \def\latexbug@iftoplevel #1#2\@nil{%
1506   \def\next{#1}%
1507   \ifx\next\@empty
1508 }
1509 \endinput
1510 ⟨/package⟩
```