

The `latexbug` package*

The L^AT_EX Team

2024/07/16

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.

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

*This file has version number v1.0p, last revised 2024/07/16.

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` 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 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`). 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.

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 L^AT_EX 2_ε, 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 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*` (the star means we maintain it, but in some repository other than `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}[2024/07/16 v1.0p Bug-classification]
\latexbug@empty Fixed text used in checking what actions to take with different files.
\latexbug@us 17 \def\latexbug@empty{}
\latexbug@ustar 18 \def\latexbug@us{us}
\latexbug@ignore 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 support) 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 regression-test.tex = us ,
31 %----- base
32 alltt.sty = us ,
33 ansinew.def = us ,
34 applemac.def = us ,
35 article.cls = us ,
36 article.sty = us ,
37 ascii.def = us ,
38 atbegshi-ltx.sty = us ,
39 atveryend-ltx.sty = us ,
40 bezier.sty = us ,
41 bk10.clo = us ,
```

42 bk11.clo = us ,
43 bk12.clo = us ,
44 book.cls = us ,
45 book.sty = us ,
46 cp1250.def = us ,
47 cp1252.def = us ,
48 cp1257.def = us ,
49 cp437.def = us ,
50 cp437de.def = us ,
51 cp850.def = us ,
52 cp852.def = us ,
53 cp858.def = us ,
54 cp865.def = us ,
55 decmulti.def = us ,
56 doc-v3beta.sty = us ,
57 doc-2016-02-15.sty = us ,
58 doc-2021-06-01.sty = us ,
59 doc.sty = us ,
60 docstrip.tex = us ,
61 exscale.sty = us ,
62 fix-cm.sty = us ,
63 fixltx2e.sty = us ,
64 flafter.sty = us ,
65 fleqn.clo = us ,
66 fleqn.sty = us ,
67 fltrace.sty = us ,
68 fontenc.sty = us ,
69 fontmath.cfg = us ,
70 fontmath.ltx = us ,
71 fonttext.cfg = us ,
72 fonttext.ltx = us ,
73 graphpap.sty = us ,
74 hyphen.ltx = us ,
75 idx.tex = us ,
76 ifthen.sty = us ,
77 inputenc.sty = us ,
78 labl.st.tex = us ,
79 latex.ltx = us ,
80 latex209.def = us ,
81 latexrelease.sty = us ,
82 latexsym.sty = us ,
83 latin1.def = us ,
84 latin10.def = us ,
85 latin2.def = us ,
86 latin3.def = us ,
87 latin4.def = us ,
88 latin5.def = us ,
89 latin9.def = us ,
90 lcyenc.dfu = us ,
91 leqno.clo = us ,
92 leqno.sty = us ,
93 letter.cls = us ,
94 letter.sty = us ,
95 lppl.tex = us ,

96 ltluatex.lua = us ,
97 ltluatex.lua = us ,
98 ltluatex.tex = us ,
99 ltluatex.tex = us ,
100 ltnews.cls = us ,
101 ltxcheck.tex = us ,
102 ltxdoc.cls = us ,
103 ltxdoc.cfg = us ,
104 ltxguide.cls = us ,
105 ly1enc.dfu = us ,
106 macce.def = us ,
107 makeidx.sty = us ,
108 minimal.cls = us ,
109 newlfont.sty = us ,
110 next.def = us ,
111 nfssfont.tex = us ,
112 oldlfont.sty = us ,
113 omlcmm.fd = us ,
114 omlcmr.fd = us ,
115 omlenc.def = us ,
116 omllcmm.fd = us ,
117 omscmr.fd = us ,
118 omscmsy.fd = us ,
119 omsenc.def = us ,
120 omsenc.dfu = us ,
121 omslcmsy.fd = us ,
122 omxcMex.fd = us ,
123 omxlcMex.fd = us ,
124 openbib.sty = us ,
125 ot1cmdh.fd = us ,
126 ot1cmfib.fd = us ,
127 ot1cmfr.fd = us ,
128 ot1cmr.fd = us ,
129 ot1cmss.fd = us ,
130 ot1cmtt.fd = us ,
131 ot1cmvtt.fd = us ,
132 ot1enc.def = us ,
133 ot1enc.dfu = us ,
134 ot1lcms.sfd = us ,
135 ot1lcmtt.fd = us ,
136 ot2enc.dfu = us ,
137 ot4enc.def = us ,
138 preload.cfg = us ,
139 preload.ltx = us ,
140 proc.cls = us ,
141 proc.sty = us ,
142 report.cls = us ,
143 report.sty = us ,
144 sample2e.tex = us ,
145 sfonts.def = us ,
146 shortvrb.sty = us ,
147 showidx.sty = us ,
148 size10.clo = us ,
149 size11.clo = us ,

```

150 size12.clo = us ,
151 slides.cls = us ,
152 slides.def = us ,
153 slides.sty = us ,
154 small2e.tex = us ,
155 source2e.tex = us ,
156 source2edoc.cls = us ,
157 structuredlog.sty = us ,
158 syntonly.sty = us ,
159 t1cmdh.fd = us ,
160 t1cmfib.fd = us ,
161 t1cmfr.fd = us ,
162 t1cmr.fd = us ,
163 t1cmss.fd = us ,
164 t1cmtt.fd = us ,
165 t1cmvtt.fd = us ,
166 t1enc.def = us ,
167 t1enc.dfu = us ,
168 t1enc.sty = us ,
169 t1lcmss.fd = us ,
170 t1lcmtt.fd = us ,
171 t2aenc.dfu = us ,
172 t2benc.dfu = us ,
173 t2cenc.dfu = us ,
174 testpage.tex = us ,
175 texsys.cfg = us ,
176 textcomp-2018-08-11.sty = us ,
177 textcomp.sty = us ,
178 tracefmt.sty = us ,
179 ts1cmr.fd = us ,
180 ts1cmss.fd = us ,
181 ts1cmtt.fd = us ,
182 ts1cmvtt.fd = us ,
183 ts1enc.def = us ,
184 ts1enc.dfu = us ,
185 tuenc.def = us ,
186 tulmdh.fd = us ,
187 tulmr.fd = us ,
188 tulmss.fd = us ,
189 tulmssq.fd = us ,
190 tulmtt.fd = us ,
191 tulmvtt.fd = us ,
192 ucmr.fd = us ,
193 ucmss.fd = us ,
194 ucmtt.fd = us ,
195 ulasy.fd = us ,
196 ullasy.fd = us ,
197 utf8-2018.def = us ,
198 utf8.def = us ,
199 utf8enc.dfu = us ,
200 x2enc.dfu = us ,
201 %----- tools
202 afterpage.sty = us ,
203 array-2016-10-06.sty = us ,

```


204 array-2020-02-10.sty = us ,
205 array-2023-11-01.sty = us ,
206 array.sty = us ,
207 bm.sty = us ,
208 calc.sty = us ,
209 dcolumn.sty = us ,
210 delarray.sty = us ,
211 e.tex = us ,
212 enumerate.sty = us ,
213 fontsmpl.sty = us ,
214 fontsmpl.tex = us ,
215 ftnright.sty = us ,
216 h.tex = us ,
217 hhline.sty = us ,
218 indentfirst.sty = us ,
219 layout.sty = us ,
220 longtable-2020-01-07.sty = us ,
221 longtable.sty = us ,
222 multicol-2017-04-11.sty = us ,
223 multicol-2019-10-01.sty = us ,
224 multicol.sty = us ,
225 q.tex = us ,
226 r.tex = us ,
227 rawfonts.sty = us ,
228 s.tex = us ,
229 shellesc.sty = us ,
230 showkeys-2014-10-28.sty = us ,
231 showkeys.sty = us ,
232 somedefs.sty = us ,
233 tabularx.sty = us ,
234 thb.sty = us ,
235 thc.sty = us ,
236 thcb.sty = us ,
237 theorem.sty = us ,
238 thm.sty = us ,
239 thmb.sty = us ,
240 thp.sty = us ,
241 trace.sty = us ,
242 varioref-2016-02-16.sty = us ,
243 varioref.sty = us ,
244 verbatim.sty = us ,
245 verbttest.tex = us ,
246 x.tex = us ,
247 xr-2023-07-04.sty = us ,
248 xr.sty = us ,
249 xspace.sty = us ,
250 %----- babel (locale files)
251 babel-slovenian.tex = ignore ,
252 babel-slovene.tex = ignore ,
253 babel-slovak.tex = ignore ,
254 babel-urdu.tex = ignore ,
255 babel-northernkurdish.tex = ignore ,
256 babel-kurmanji.tex = ignore ,
257 babel-northernkurdish-arabic.tex = ignore ,

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

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

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

420 babel-chinese.tex = ignore ,
421 babel-chinese-hant-mo.tex = ignore ,
422 babel-chinese-traditional.tex = ignore ,
423 babel-chinese-simplified-macausarchina.tex = ignore ,
424 babel-chinese-traditional-hongkongsarchina.tex = ignore ,
425 babel-ukrainian.tex = ignore ,
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1000 babel-tigrinya = ignore ,
1001 babel-kalenjin = ignore ,
1002 babel-luyia = ignore ,
1003 babel-nuer = ignore ,
1004 %----- babel (part supported by us)
1005 UKenglish.sty = us ,
1006 USenglish.sty = us ,
1007 afrikaans.sty = us ,
1008 albanian.sty = us ,
1009 american.sty = us ,
1010 austrian.sty = us ,
1011 babel.def = us ,
1012 babel.sty = us ,
1013 bahasa.sty = us ,

```

```

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

```



```

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

```

```

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

```

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

```

1230 ts1pcr.fd = us ,
1231 ts1phv.fd = us ,
1232 ts1pnc.fd = us ,
1233 ts1ppl.fd = us ,
1234 ts1pplj.fd = us ,
1235 ts1pplx.fd = us ,
1236 ts1ptm.fd = us ,
1237 ts1put.fd = us ,
1238 ts1pzc.fd = us ,
1239 ufplm.fd = us ,
1240 ufplmbb.fd = us ,
1241 upsy.fd = us ,
1242 upzd.fd = us ,
1243 utopia.sty = us ,
1244 %----- l3experimental
1245 l3benchmark.sty = us* ,
1246 l3bitset.sty = us* ,
1247 l3draw.sty = us* ,
1248 l3graphics.sty = us* ,
1249 l3sys-shell.sty = us* ,
1250 %----- l3packages
1251 xparse-2018-04-12.sty = us* ,
1252 xparse-2020-10-01.sty = us* ,
1253 xparse-generic.tex = us* ,
1254 xparse.ltx = us* ,
1255 xfp.sty = us* ,
1256 %----- l3kernel / expl3
1257 expl3-code.tex = ignore ,
1258 expl3.ltx = ignore ,
1259 expl3.lua = us* ,
1260 expl3.sty = us* ,
1261 l3backend-dvipdfmx.def = ignore ,
1262 l3backend-dvips.def = ignore ,
1263 l3backend-dvisvgm.def = ignore ,
1264 l3backend-luatex.def = ignore ,
1265 l3backend-pdfmode.def = ignore , % -- old
1266 l3backend-pdftex.def = ignore ,
1267 l3backend-xdvipdfmx.def = ignore , % -- old
1268 l3backend-xetex.def = ignore ,
1269 l3debug.def = us* ,
1270 l3deprecation.def = ignore ,
1271 l3doc.cls = us* ,
1272 l3docstrip.tex = us ,
1273 l3keys2e.sty = us* ,
1274 l3str-enc-iso88591.def = us* ,
1275 l3str-enc-iso885910.def = us* ,
1276 l3str-enc-iso885911.def = us* ,
1277 l3str-enc-iso885913.def = us* ,
1278 l3str-enc-iso885914.def = us* ,
1279 l3str-enc-iso885915.def = us* ,
1280 l3str-enc-iso885916.def = us* ,
1281 l3str-enc-iso88592.def = us* ,
1282 l3str-enc-iso88593.def = us* ,
1283 l3str-enc-iso88594.def = us* ,

```

```

1284 l3str-enc-iso88595.def = us* ,
1285 l3str-enc-iso88596.def = us* ,
1286 l3str-enc-iso88597.def = us* ,
1287 l3str-enc-iso88598.def = us* ,
1288 l3str-enc-iso88599.def = us* ,
1289 xcoeffins.sty = us* ,
1290 xgalley.sty = us* ,
1291 xparse.sty = us* ,
1292 xtemplate-2023-10-10.sty = us* ,
1293 xtemplate.sty = us* ,
1294 %----- TAGGING PROJECT
1295 pdfmanagement-testphase.sty = us*
1296         \Contact https://github.com/latex3/tagging-project/issues ,
1297 tagpdf.sty = us*
1298         \Contact https://github.com/latex3/tagging-project/issues ,
1299 documentmetadata-support.ltx = us*
1300         \Contact https://github.com/latex3/tagging-project/issues ,
1301 l3backend-testphase-luatex.def = ignore ,
1302 l3backend-testphase-pdftex.def = ignore ,
1303 l3backend-testphase-xetex.def = ignore ,
1304 latex-lab-amsmath.ltx = ignore ,
1305 latex-lab-footnotes.ltx = ignore ,
1306 latex-lab-math.ltx = ignore ,
1307 latex-lab-mathpkg.ltx = ignore ,
1308 latex-lab-mathtools.ltx = ignore ,
1309 latex-lab-testphase-bib.sty = ignore ,
1310 latex-lab-testphase-block.sty = ignore ,
1311 latex-lab-testphase-float.sty = ignore ,
1312 latex-lab-testphase-graphic.sty = ignore ,
1313 latex-lab-testphase-marginpar.sty = ignore ,
1314 latex-lab-testphase-math.sty = ignore ,
1315 latex-lab-testphase-minipage.sty = ignore ,
1316 latex-lab-testphase-new-or-1.sty = ignore ,
1317 latex-lab-testphase-new-or-2.sty = ignore ,
1318 latex-lab-testphase-sec.sty = ignore ,
1319 latex-lab-testphase-table.sty = ignore ,
1320 latex-lab-testphase-text.sty = ignore ,
1321 latex-lab-testphase-title.sty = ignore ,
1322 latex-lab-testphase-toc.sty = ignore ,
1323 math-latex-lab-testphase.ltx = ignore ,
1324 pdfmanagement-firstaid.sty = ignore ,
1325 pdfmanagement-testphase.ltx = ignore ,
1326 phase-II-latex-lab-testphase.ltx = ignore ,
1327 phase-III-latex-lab-testphase.ltx = ignore ,
1328 table-latex-lab-testphase.ltx = ignore ,
1329 tagpdf-luatex.def = ignore ,
1330 title-latex-lab-testphase.ltx = ignore ,
1331 %----- EXTERNAL PACKAGES SUPPORTED BY THE LaTeX Team
1332 hluatex.def = ignore ,
1333 hpdftex.def = ignore ,
1334 hxetex.def = ignore ,
1335 hypdoc.sty = us ,
1336 hyperref.cfg = ignore ,
1337 hyperref.sty = us*

```

```

1338          \Contact https://github.com/latex3/hyperref/issues ,
1339 hyperref-langpatches.def = ignore ,
1340 pdlenc.def      = ignore ,
1341 puenc.def       = ignore ,
1342 xcolor.sty     = us*
1343          \Contact https://github.com/latex3/xcolor/issues ,
1344 %----- PACKAGES BY MEMBERS OF THE LaTeX Team with their own rep
1345 beamer.cls     = Joseph Wright
1346          \Contact https://github.com/josephwright/beamer/issues ,
1347 dashundergaps.sty = Frank Mittelbach
1348          \Contact https://github.com/FrankMittelbach/fmitex-dashundergaps/issues ,
1349 parnotes.sty   = Frank Mittelbach
1350          \Contact https://github.com/FrankMittelbach/fmitex-parnotes ,
1351 fewerfloatpages.sty = Frank Mittelbach
1352          \Contact https://github.com/FrankMittelbach/fmitex-fewerfloatpages ,
1353 fontspec.sty  = us*
1354          \Contact https://github.com/latex3/fontspec/issues ,
1355 footmisc.sty  = Frank Mittelbach
1356          \Contact https://github.com/FrankMittelbach/fmitex-footmisc ,
1357 luatex85.sty  = Joseph Wright
1358          \Contact https://github.com/josephwright/luatex85/issues ,
1359 parskip.sty   = Frank Mittelbach
1360          \Contact https://github.com/FrankMittelbach/fmitex-parskip/issues ,
1361 siunitx.sty   = Joseph Wright
1362          \Contact https://github.com/josephwright/siunitx/issues ,
1363 unicodefonttable.sty = Frank Mittelbach
1364          \Contact https://github.com/FrankMittelbach/fmitex-unicodefonttable ,
1365 unicode-math.sty = us*
1366          \Contact https://github.com/latex3/unicode-math/issues ,
1367 widows-and-orphans.sty = Frank Mittelbach
1368          \Contact https://github.com/FrankMittelbach/fmitex-widows-and-orphans/issues
1369 xfrac.sty     = us*
1370          \Contact https://github.com/latex3/xfrac/issues ,
1371 %----- USEFUL FOR BUG REPORTS
1372 blindtext.sty = ignore ,
1373 etoolbox.sty  = ignore ,
1374 kantlipsum.sty = ignore ,
1375 lipsum.ltd    = ignore ,
1376 lipsum.sty    = ignore ,
1377 %----- EXTERNALLY SUPPORTED
1378 %
1379 geometry.sty = Hideo Umeki
1380          \Contact <latexgeometry [at] gmail [dot] com> ,
1381 %----- babel external
1382 basque.ldf    = Juan M. Aguirregabiria
1383          \Contact <http://tp.lc.ehu.es/jma.html> ,
1384 belarusian.ldf = Aleksey Novodvorsky and Andrew Shadura
1385          \Contact <andrew [at] shadura [dot] me> ,
1386 bosnian.ldf   = Samir Halilcevic % Halilčević
1387          \Contact <samir [dot] halilcevic [at] fet [dot] ba> ,
1388 bulgarian.ldf = Georgi N. Boshnakov
1389          \Contact <Georgi Boshnakov [at] manchester [dot] ac [dot] uk> ,
1390 croatian.ldf  = Ivan Kokan
1391          \Contact <ivan [dot] kokan [at] gmail [dot] com> ,

```

1392 estonian.ldf = Jaan Vajakas
1393 \Contact <jaanvajakas [at] hot [dot] ee> ,
1394 frenchb.ldf = Daniel Flipo
1395 \Contact <daniel [dot] flipo [at] free [dot] fr> ,
1396 friulan.ldf = Claudio Beccari
1397 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1398 georgian.ldf = Levan Shoshiashvili
1399 \Contact <shoshia [at] hotmail [dot] com> ,
1400 austrian.ldf = Juergen Spitzmueller
1401 \Contact <juergen [at] spitzmueller [dot] org> ,
1402 german.ldf = Juergen Spitzmueller
1403 \Contact <juergen [at] spitzmueller [dot] org> ,
1404 germanb.ldf = Juergen Spitzmueller
1405 \Contact <juergen [at] spitzmueller [dot] org> ,
1406 naustrian.ldf = Juergen Spitzmueller
1407 \Contact <juergen [at] spitzmueller [dot] org> ,
1408 ngerman.ldf = Juergen Spitzmueller
1409 \Contact <juergen [at] spitzmueller [dot] org> ,
1410 ngermanb.ldf = Juergen Spitzmueller
1411 \Contact <juergen [at] spitzmueller [dot] org> ,
1412 nswissgerman.ldf = Juergen Spitzmueller
1413 \Contact <juergen [at] spitzmueller [dot] org> ,
1414 swissgerman.ldf = Juergen Spitzmueller
1415 \Contact <juergen [at] spitzmueller [dot] org> ,
1416 greek.ldf = Guenter Milde
1417 \Contact <milde [at] users [dot] sf [dot] net> ,
1418 magyar.ldf = Peter Szabo %% Péter Szabó
1419 \Contact <http://www.math.bme.hu/latex/> ,
1420 italian.ldf = Claudio Beccari
1421 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1422 japanese.ldf = Japanese TEX Development Community
1423 \Contact <https://github.com/texjorg/babel-japanese> ,
1424 latin.ldf = Claudio Beccari
1425 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1426 macedonian.ldf = Stojan Trajanovski
1427 \Contact <stojan [dot] trajanovski [at] gmail [dot] com> ,
1428 occitan.ldf = Cedric Valmary %% Cédric Valmary
1429 \Contact <cvalmary [at] yahoo [dot] fr> ,
1430 piedmontese.ldf = Claudio Beccari
1431 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1432 pinyin.ldf = Werner Lemberg
1433 \Contact <wl [at] gnu [dot] org> ,
1434 romansh.ldf = Claudio Beccari
1435 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1436 russain.ldf = Igor A [dot] Kotelnikov
1437 \Contact <kia999 [at] mail [dot] ru> , % -- old?
1438 serbianc.ldf = Filip Brcic
1439 \Contact <brcha [at] users [dot] sourceforge [dot] net> ,
1440 spanglish.ldf = J [dot] Luis Rivera
1441 \Contact <jlrn77 [at] gmail [dot] com> , % -- old?
1442 spanish.ldf = Javier Bezos
1443 \Contact <http://www.texnia.com/contact.html> ,
1444 thaicjk.ldf = Werner Lemberg
1445 \Contact <wl [at] gnu [dot] org> ,

```

1446 ukraineb.ldf      = Sergiy Ponomarenko
1447                   \Contact <sergiy [dot] ponomarenko [at] gmail [dot] com> ,
1448 vietnamese.ldf    = Werner Lemberg
1449                   \Contact <wl [at] gnu [dot] org> ,
1450 %----- LAST LINE
1451 {\latexbug@empty} = {} ,

```

Keep the data but throw away the loop function.

```
1452 \endgroup
```

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

```
1453 \let\latexbug@addtofilelist\@addtofilelist
```

```
\latexbug@zzzz Storage for third-party files and those from the LATEX3 set on GitHub.
```

```
\latexbug@own 1454 \def\latexbug@zzzz{}
```

```
1455 \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.
```

```

1456 \let\latexbug@process@table\process@table
1457 \def\process@table{\global\let\@addtofilelist\latexbug@addtofilelist
1458   \latexbug@process@table
1459   \ifx\latexbug@zzzz\latexbug@empty
1460     \ifx\latexbug@own\latexbug@empty
1461     \else
1462       \typeout{}%
1463       \PackageWarningNoLine{latexbug}%
1464         {Special bug tracker!\MessageBreak
1465 \MessageBreak
1466 This test file uses the following file(s)\MessageBreak
1467 \MessageBreak
1468 =====\MessageBreak
1469   \latexbug@own
1470 =====\MessageBreak
1471   \MessageBreak
1472 Please note that these files have their own\MessageBreak
1473 bug tracker and your issue should therefore\MessageBreak
1474 be reported in the indicated repository.\MessageBreak
1475   \MessageBreak
1476 If they are not necessary to exhibit the problem,\MessageBreak
1477 remove them from your example and rerun it,\MessageBreak
1478 otherwise report the issue in the listed repository.\MessageBreak
1479   \MessageBreak
1480 If different repositories are listed, try to\MessageBreak
1481 select the most appropriate one (but don't worry\MessageBreak
1482 too much, if the choice is not clear to you)}%
1483   \typeout{}%
1484   \fi
1485   \else
1486     \PackageError{latexbug}%
1487       {Third-party file(s)\MessageBreak
1488 \MessageBreak

```



```

1489 This test file uses third-party file(s)\MessageBreak
1490 \MessageBreak
1491      =====\MessageBreak
1492      \latexbug@zzzz
1493      =====\MessageBreak
1494      \MessageBreak
1495 So you should contact the authors\MessageBreak
1496 of these files, not the LaTeX Team!\MessageBreak
1497 (Or remove the packages that load\MessageBreak
1498 them, if they are not necessary to\MessageBreak
1499 exhibit the problem).\MessageBreak
1500 \MessageBreak
1501 If you think the bug is in core LaTeX\MessageBreak
1502 (as maintained by the LaTeX Team) but\MessageBreak
1503 these files are needed to demonstrate\MessageBreak
1504 the problem, please continue and mention\MessageBreak
1505 this explicitly in your bug report\MessageBreak
1506 (with an explanation why you think so)}{Please
1507      correct your test file prior
1508      to submitting the bug report.\MessageBreak
1509      Otherwise it is likely to be rejected!}%
1510 \fi
1511 }

```

`\@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.

```

1512 \def\@addtofilelist#1{%
1513   \expandafter\latexbug@iftoplevel\@currnamestack {} \nil
1514   \begingroup
1515     \xdef\latexbug@x{#1}% TODO: one-level sanitize
1516     \expandafter
1517     \ifx\csname latexbug@\@latexbug@x\endcsname\relax
1518       \def\latexbug@y{%
1519         \else

```

`\latexbug@y` will contain either one 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.

```

1520     \xdef\latexbug@y{\expandafter\expandafter\expandafter
1521       \@firstoftwo\csname latexbug@\@latexbug@x\endcsname}%
1522     \xdef\latexbug@z{\expandafter\expandafter\expandafter
1523       \@secondoftwo\csname latexbug@\@latexbug@x\endcsname}%
1524     \fi
1525     \ifx\latexbug@y\latexbug@us\else
1526       \ifx\latexbug@y\latexbug@usstar
1527         \begingroup
1528           \let\MessageBreak\relax
1529           \xdef\latexbug@own{%
1530             \latexbug@own\latexbug@x
1531             \space\space -> \space Report at:

```

```

1532     \ifx\latexbug@z\@empty
1533         \Contact https://github.com/latex3/latex3/issues
1534     \else
1535         \latexbug@z
1536     \fi
1537     \MessageBreak
1538 }%
1539 \endgroup
1540 \else
1541     \ifx\latexbug@y\latexbug@ignore\else
1542         {\let\MessageBreak\relax
1543         \xdef\latexbug@zzzz{\latexbug@zzzz\latexbug@x
1544         \ifx\latexbug@y\latexbug@empty\else
1545             \space\space -> \space \latexbug@y
1546             \space \latexbug@z
1547         \fi
1548         \MessageBreak}}%
1549     \fi
1550 \fi
1551 \fi
1552 \endgroup
1553 \fi
1554 \latexbug@addtofilelist{#1}}
1555 \def\latexbug@iftoplevel #1#2\@nil{%
1556 \def\next{#1}%
1557 \ifx\next\@empty
1558 }
1559 \endinput
1560 </package>

```