

The `latexbug` package*

The L^AT_EX Team

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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

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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 $\text{T}_{\text{E}}\text{X}$, 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}[2026/05/21 v1.0s 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 map-
ping. 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 null.tex = ignore ,
30 regression-test = us ,
31 regression-test.tex = us ,
32 %----- base
33 alltt.sty = us ,
34 ansinew.def = us ,
35 applemac.def = us ,
36 article.cls = us ,
37 article.sty = us ,
38 ascii.def = us ,
39 atbegshi-ltx.sty = us ,
40 atveryend-ltx.sty = us ,
41 bezier.sty = us ,

```

```

42 bk10.clo = us ,
43 bk11.clo = us ,
44 bk12.clo = us ,
45 book.cls = us ,
46 book.sty = us ,
47 cp1250.def = us ,
48 cp1252.def = us ,
49 cp1257.def = us ,
50 cp437.def = us ,
51 cp437de.def = us ,
52 cp850.def = us ,
53 cp852.def = us ,
54 cp858.def = us ,
55 cp865.def = us ,
56 decmulti.def = us ,
57 doc-v3beta.sty = us ,
58 doc-2016-02-15.sty = us ,
59 doc-2021-06-01.sty = us ,
60 doc.sty = us ,
61 docstrip.tex = us ,
62 exscale.sty = us ,
63 fix-cm.sty = us ,
64 fixltx2e.sty = us ,
65 flafter.sty = us ,
66 fleqn.clo = us ,
67 fleqn.sty = us ,
68 fltrace.sty = us ,
69 fontenc.sty = us ,
70 fontmath.cfg = us ,
71 fontmath.ltx = us ,
72 fonttext.cfg = us ,
73 fonttext.ltx = us ,
74 graphpap.sty = us ,
75 hyphen.ltx = us ,
76 idx.tex = us ,
77 ifthen.sty = us ,
78 inputenc.sty = us ,
79 lablst.tex = us ,
80 latex.ltx = us ,
81 latex209.def = us ,
82 latexrelease.sty = us ,
83 latexsym.sty = us ,
84 latin1.def = us ,
85 latin10.def = us ,
86 latin2.def = us ,
87 latin3.def = us ,
88 latin4.def = us ,
89 latin5.def = us ,
90 latin9.def = us ,
91 lcyenc.dfu = us ,
92 leqno.clo = us ,
93 leqno.sty = us ,
94 letter.cls = us ,
95 letter.sty = us ,

```

```

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

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```

150 size11.clo = us ,
151 size12.clo = us ,
152 slides.cls = us ,
153 slides.def = us ,
154 slides.sty = us ,
155 small2e.tex = us ,
156 source2e.tex = us ,
157 source2edoc.cls = us ,
158 structuredlog.sty = us ,
159 syntonly.sty = us ,
160 t1cmdh.fd = us ,
161 t1cmfib.fd = us ,
162 t1cmfr.fd = us ,
163 t1cmr.fd = us ,
164 t1cmss.fd = us ,
165 t1cmtt.fd = us ,
166 t1cmvtt.fd = us ,
167 t1enc.def = us ,
168 t1enc.dfu = us ,
169 t1enc.sty = us ,
170 t1lcmss.fd = us ,
171 t1lcmtt.fd = us ,
172 t2aenc.dfu = us ,
173 t2benc.dfu = us ,
174 t2cenc.dfu = us ,
175 testpage.tex = us ,
176 texsys.cfg = us ,
177 textcomp-2018-08-11.sty = us ,
178 textcomp.sty = us ,
179 tracefmt.sty = us ,
180 ts1cmr.fd = us ,
181 ts1cmss.fd = us ,
182 ts1cmtt.fd = us ,
183 ts1cmvtt.fd = us ,
184 ts1enc.def = us ,
185 ts1enc.dfu = us ,
186 tuenc.def = us ,
187 tulmdh.fd = us ,
188 tulmr.fd = us ,
189 tulmss.fd = us ,
190 tulmssq.fd = us ,
191 tulmtt.fd = us ,
192 tulmvtt.fd = us ,
193 ucmr.fd = us ,
194 ucmss.fd = us ,
195 ucmtt.fd = us ,
196 ulasy.fd = us ,
197 ullasy.fd = us ,
198 utf8-2018.def = us ,
199 utf8.def = us ,
200 utf8enc.dfu = us ,
201 x2enc.dfu = us ,
202 %----- tools
203 afterpage.sty = us ,

```



```

204 array-2016-10-06.sty = us ,
205 array-2020-02-10.sty = us ,
206 array-2023-11-01.sty = us ,
207 array.sty = us ,
208 bm.sty = us ,
209 calc.sty = us ,
210 dcolumn.sty = us ,
211 delarray.sty = us ,
212 e.tex = us ,
213 enumerate.sty = us ,
214 fontsmpl.sty = us ,
215 fontsmpl.tex = us ,
216 ftnright.sty = us ,
217 h.tex = us ,
218 hhline.sty = us ,
219 indentfirst.sty = us ,
220 l3sys-query.sty = us* ,
221 layout.sty = us ,
222 longtable-2020-01-07.sty = us ,
223 longtable.sty = us ,
224 multicol-2017-04-11.sty = us ,
225 multicol-2019-10-01.sty = us ,
226 multicol.sty = us ,
227 q.tex = us ,
228 r.tex = us ,
229 rawfonts.sty = us ,
230 s.tex = us ,
231 shellesc.sty = us ,
232 showkeys-2014-10-28.sty = us ,
233 showkeys.sty = us ,
234 somedefs.sty = us ,
235 tabularx.sty = us ,
236 thb.sty = us ,
237 thc.sty = us ,
238 thcb.sty = us ,
239 theorem.sty = us ,
240 thm.sty = us ,
241 thmb.sty = us ,
242 thp.sty = us ,
243 trace.sty = us ,
244 varioref-2016-02-16.sty = us ,
245 varioref.sty = us ,
246 verbatim.sty = us ,
247 verbttest.tex = us ,
248 x.tex = us ,
249 xr-2023-07-04.sty = us ,
250 xr.sty = us ,
251 xspace.sty = us ,
252 %----- babel (locale files)
253 babel-slovenian.tex = ignore ,
254 babel-slovene.tex = ignore ,
255 babel-slovak.tex = ignore ,
256 babel-urdu.tex = ignore ,
257 babel-northernkurdish.tex = ignore ,

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

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

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

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420 babel-chinese-hans.tex = ignore ,
421 babel-chinese-traditional-macausarchina.tex = ignore ,
422 babel-chinese.tex = ignore ,
423 babel-chinese-hant-mo.tex = ignore ,
424 babel-chinese-traditional.tex = ignore ,
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996 babel-kabuverdianu = ignore ,
997 babel-turkish = ignore ,
998 babel-coptic = ignore ,
999 babel-duala = ignore ,
1000 babel-kinyarwanda = ignore ,
1001 babel-morisyen = ignore ,
1002 babel-tigrinya = ignore ,
1003 babel-kalenjin = ignore ,
1004 babel-luyia = ignore ,
1005 babel-nuer = ignore ,
1006 %----- babel (part supported by us)
1007 UKenglish.sty = us ,
1008 USenglish.sty = us ,
1009 afrikaans.sty = us ,
1010 albanian.sty = us ,
1011 american.sty = us ,
1012 austrian.sty = us ,
1013 babel.def = us ,

```

```

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

```



```

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

```

```

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

```

1176 omlpzc.fd = us ,
 1177 omlzpplm.fd = us ,
 1178 omlzpple.fd = us ,
 1179 omlztmcm.fd = us ,
 1180 omsbch.fd = us ,
 1181 omspag.fd = us ,
 1182 omspbk.fd = us ,
 1183 omspcr.fd = us ,
 1184 omsphv.fd = us ,
 1185 omspnc.fd = us ,
 1186 omsppl.fd = us ,
 1187 omsptm.fd = us ,
 1188 omsput.fd = us ,
 1189 omspzc.fd = us ,
 1190 omspzccm.fd = us ,
 1191 omszplm.fd = us ,
 1192 omszpple.fd = us ,
 1193 omsztmcm.fd = us ,
 1194 omxpsycm.fd = us ,
 1195 omxzplm.fd = us ,
 1196 omxzpple.fd = us ,
 1197 omxztmcm.fd = us ,
 1198 ot1bch.fd = us ,
 1199 ot1pag.fd = us ,
 1200 ot1pbk.fd = us ,
 1201 ot1pcr.fd = us ,
 1202 ot1phv.fd = us ,
 1203 ot1pnc.fd = us ,
 1204 ot1ppl.fd = us ,
 1205 ot1pplj.fd = us ,
 1206 ot1pplx.fd = us ,
 1207 ot1ptm.fd = us ,
 1208 ot1ptmcm.fd = us ,
 1209 ot1put.fd = us ,
 1210 ot1pzc.fd = us ,
 1211 ot1zpplm.fd = us ,
 1212 ot1zpple.fd = us ,
 1213 ot1ztmcm.fd = us ,
 1214 palatino.sty = us ,
 1215 pifont.sty = us ,
 1216 t1bch.fd = us ,
 1217 t1pag.fd = us ,
 1218 t1pbk.fd = us ,
 1219 t1pcr.fd = us ,
 1220 t1phv.fd = us ,
 1221 t1pnc.fd = us ,
 1222 t1ppl.fd = us ,
 1223 t1pplj.fd = us ,
 1224 t1pplx.fd = us ,
 1225 t1ptm.fd = us ,
 1226 t1put.fd = us ,
 1227 t1pzc.fd = us ,
 1228 times.sty = us ,
 1229 ts1bch.fd = us ,

```

1230 ts1pag.fd = us ,
1231 ts1pbk.fd = us ,
1232 ts1pcr.fd = us ,
1233 ts1phv.fd = us ,
1234 ts1pnc.fd = us ,
1235 ts1ppl.fd = us ,
1236 ts1pplj.fd = us ,
1237 ts1pplx.fd = us ,
1238 ts1ptm.fd = us ,
1239 ts1put.fd = us ,
1240 ts1pzc.fd = us ,
1241 ufplm.fd = us ,
1242 ufplmbb.fd = us ,
1243 upsy.fd = us ,
1244 upzd.fd = us ,
1245 utopia.sty = us ,
1246 %----- l3experimental
1247 l3benchmark.sty = us* ,           % -- old
1248 l3bitset.sty = us* ,             % -- old
1249 l3draw.sty = us* ,
1250 l3galley.sty = us* ,
1251 l3graphics.sty = us* ,           % -- old
1252 l3opacity.sty = us* ,           % -- old
1253 l3str-format.sty = us* ,
1254 l3sys-shell.sty = us* ,         % -- old
1255 xcoeffins.sty = us* ,
1256 xgalley.sty = us* ,
1257 %----- l3packages
1258 l3keys2e.sty = us* ,
1259 xfp.sty = us* ,
1260 xparse-2018-04-12.sty = us* ,
1261 xparse-2020-10-01.sty = us* ,
1262 xparse-generic.tex = us* ,
1263 xparse.ltx = us* ,
1264 xparse.sty = us* ,
1265 xtemplate-2023-10-10.sty = us* ,
1266 xtemplate.sty = us* ,
1267 %----- l3kernel / expl3
1268 expl3-code.tex = ignore ,
1269 expl3.ltx = ignore ,
1270 expl3.lua = us* ,
1271 expl3.sty = us* ,
1272 l3backend-dvipdfmx.def = ignore ,
1273 l3backend-dvips.def = ignore ,
1274 l3backend-dvisvgm.def = ignore ,
1275 l3backend-luatex.def = ignore ,
1276 l3backend-pdfmode.def = ignore , % -- old
1277 l3backend-pdftex.def = ignore ,
1278 l3backend-xdvi-pdfmx.def = ignore , % -- old
1279 l3backend-xetex.def = ignore ,
1280 l3debug.def = us* ,
1281 l3deprecation.def = ignore ,
1282 l3doc.cls = us* ,
1283 l3docstrip.tex = us ,

```

```

1284 l3str-enc-iso88591.def = us* ,
1285 l3str-enc-iso885910.def = us* ,
1286 l3str-enc-iso885911.def = us* ,
1287 l3str-enc-iso885913.def = us* ,
1288 l3str-enc-iso885914.def = us* ,
1289 l3str-enc-iso885915.def = us* ,
1290 l3str-enc-iso885916.def = us* ,
1291 l3str-enc-iso88592.def = us* ,
1292 l3str-enc-iso88593.def = us* ,
1293 l3str-enc-iso88594.def = us* ,
1294 l3str-enc-iso88595.def = us* ,
1295 l3str-enc-iso88596.def = us* ,
1296 l3str-enc-iso88597.def = us* ,
1297 l3str-enc-iso88598.def = us* ,
1298 l3str-enc-iso88599.def = us* ,
1299 %----- TAGGING PROJECT
1300 pdfmanagement.ltx = us*
1301         \Contact https://github.com/latex3/tagging-project/issues ,
1302 pdfmanagement-testphase.sty = us*
1303         \Contact https://github.com/latex3/tagging-project/issues ,
1304 tagpdf.sty = us*
1305         \Contact https://github.com/latex3/tagging-project/issues ,
1306 tagpdf-debug.sty = us*
1307         \Contact https://github.com/latex3/tagging-project/issues ,
1308 documentmetadata-support.ltx = us*
1309         \Contact https://github.com/latex3/tagging-project/issues ,
1310 l3backend-testphase-luatex.def = ignore ,
1311 l3backend-testphase-pdftex.def = ignore ,
1312 l3backend-testphase-xetex.def = ignore ,
1313 latex-lab-amsmath.ltx = ignore ,
1314 latex-lab-footnotes.ltx = ignore ,
1315 latex-lab-math.ltx = ignore ,
1316 latex-lab-mathintent.ltx = ignore ,
1317 latex-lab-mathpkg.ltx = ignore ,
1318 latex-lab-mathtools.ltx = ignore ,
1319 latex-lab-testphase-bib.sty = ignore ,
1320 latex-lab-testphase-block.sty = ignore ,
1321 latex-lab-testphase-float.sty = ignore ,
1322 latex-lab-testphase-graphic.sty = ignore ,
1323 latex-lab-testphase-latest.sty = ignore ,
1324 latex-lab-testphase-marginpar.sty = ignore ,
1325 latex-lab-testphase-math.sty = ignore ,
1326 latex-lab-testphase-minipage.sty = ignore ,
1327 latex-lab-testphase-new-or-1.sty = ignore ,
1328 latex-lab-testphase-new-or-2.sty = ignore ,
1329 latex-lab-testphase-sec.sty = ignore ,
1330 latex-lab-testphase-table.sty = ignore ,
1331 latex-lab-testphase-text.sty = ignore ,
1332 latex-lab-testphase-title.sty = ignore ,
1333 latex-lab-testphase-toc.sty = ignore ,
1334 latex-lab-unicode-math.ltx = ignore ,
1335 math-latex-lab-testphase.ltx = ignore ,
1336 pdfmanagement-firstaid.sty = ignore ,
1337 pdfmanagement-init.sty = ignore ,

```

```

1338 pdfmanagement-testphase.ltx = ignore ,
1339 phase-II-latex-lab-testphase.ltx = ignore ,
1340 phase-III-latex-lab-testphase.ltx = ignore ,
1341 table-latex-lab-testphase.ltx = ignore ,
1342 tagpdf-luatex.def = ignore ,
1343 title-latex-lab-testphase.ltx = ignore ,
1344 %----- EXTERNAL PACKAGES SUPPORTED BY THE LaTeX Team
1345 geometry.sty = us*
1346         \Contact https://github.com/LaTeX-Package-Repositories/geometry ,
1347 hlutaux.def = ignore ,
1348 hpdftex.def = ignore ,
1349 hxdftex.def = ignore ,
1350 hypdoc.sty = us ,
1351 hyperref.cfg = ignore ,
1352 hyperref.sty = us*
1353         \Contact https://github.com/latex3/hyperref/issues ,
1354 hyperref-langpatches.def = ignore ,
1355 luamml.sty = us*
1356         \Contact https://github.com/latex3/luamml/issues ,
1357 pdlenc.def = ignore ,
1358 puenc.def = ignore ,
1359 xcolor.sty = us*
1360         \Contact https://github.com/latex3/xcolor/issues ,
1361 %----- PACKAGES BY MEMBERS OF THE LaTeX Team with their own rep
1362 beamer.cls = Joseph Wright
1363         \Contact https://github.com/josephwright/beamer/issues ,
1364 dashundergaps.sty = Frank Mittelbach
1365         \Contact https://github.com/FrankMittelbach/fmitex-dashundergaps/issues ,
1366 parnotes.sty = Frank Mittelbach
1367         \Contact https://github.com/FrankMittelbach/fmitex-parnotes ,
1368 fewerfloatpages.sty = Frank Mittelbach
1369         \Contact https://github.com/FrankMittelbach/fmitex-fewerfloatpages ,
1370 fontspec.sty = us*
1371         \Contact https://github.com/latex3/fontspec/issues ,
1372 footmisc.sty = Frank Mittelbach
1373         \Contact https://github.com/FrankMittelbach/fmitex-footmisc ,
1374 luatex85.sty = Joseph Wright
1375         \Contact https://github.com/josephwright/luatex85/issues ,
1376 parskip.sty = Frank Mittelbach
1377         \Contact https://github.com/FrankMittelbach/fmitex-parskip/issues ,
1378 siunitx.sty = Joseph Wright
1379         \Contact https://github.com/josephwright/siunitx/issues ,
1380 unicodefonttable.sty = Frank Mittelbach
1381         \Contact https://github.com/FrankMittelbach/fmitex-unicodefonttable ,
1382 unicode-math.sty = us*
1383         \Contact https://github.com/latex3/unicode-math/issues ,
1384 widows-and-orphans.sty = Frank Mittelbach
1385         \Contact https://github.com/FrankMittelbach/fmitex-widows-and-orphans/issues
1386 xfrac.sty = us*
1387         \Contact https://github.com/latex3/xfrac/issues ,
1388 %----- USEFUL FOR BUG REPORTS
1389 blindtext.sty = ignore ,
1390 etoolbox.sty = ignore ,
1391 kantlipsum.sty = ignore ,

```

```

1392 lipsum.ltd    = ignore ,
1393 lipsum.sty     = ignore ,
1394 %----- EXTERNALLY SUPPORTED
1395 %
1396 basque.ldf      = Juan M. Aguirregabiria
1397                 \Contact <http://tp.lc.ehu.es/jma.html> ,
1398 belarusian.ldf   = Aleksey Novodvorsky and Andrew Shadura
1399                 \Contact <andrew [at] shadura [dot] me> ,
1400 bosnian.ldf      = Samir Halilcevic %% Halilčević
1401                 \Contact <samir [dot] halilcevic [at] fet [dot] ba> ,
1402 bulgarian.ldf    = Georgi N. Boshnakov
1403                 \Contact <Georgi Boshnakov [at] manchester [dot] ac [dot] uk> ,
1404 croatian.ldf     = Ivan Kokan
1405                 \Contact <ivan [dot] kokan [at] gmail [dot] com> ,
1406 estonian.ldf     = Jaan Vajakas
1407                 \Contact <jaanvajakas [at] hot [dot] ee> ,
1408 frenchb.ldf     = Daniel Flipo
1409                 \Contact <daniel [dot] flipo [at] free [dot] fr> ,
1410 friulan.ldf      = Claudio Beccari
1411                 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1412 georgian.ldf     = Levan Shoshiashvili
1413                 \Contact <shoshia [at] hotmail [dot] com> ,
1414 austrian.ldf     = Juergen Spitzmueller
1415                 \Contact <juergen [at] spitzmueller [dot] org> ,
1416 german.ldf       = Juergen Spitzmueller
1417                 \Contact <juergen [at] spitzmueller [dot] org> ,
1418 germanb.ldf      = Juergen Spitzmueller
1419                 \Contact <juergen [at] spitzmueller [dot] org> ,
1420 naustrian.ldf    = Juergen Spitzmueller
1421                 \Contact <juergen [at] spitzmueller [dot] org> ,
1422 ngerman.ldf      = Juergen Spitzmueller
1423                 \Contact <juergen [at] spitzmueller [dot] org> ,
1424 ngermanb.ldf     = Juergen Spitzmueller
1425                 \Contact <juergen [at] spitzmueller [dot] org> ,
1426 nswissgerman.ldf = Juergen Spitzmueller
1427                 \Contact <juergen [at] spitzmueller [dot] org> ,
1428 swissgerman.ldf = Juergen Spitzmueller
1429                 \Contact <juergen [at] spitzmueller [dot] org> ,
1430 greek.ldf        = Guenter Milde
1431                 \Contact <milde [at] users [dot] sf [dot] net> ,
1432 magyar.ldf       = Peter Szabo %% Péter Szabó
1433                 \Contact <http://www.math.bme.hu/latex/> ,
1434 italian.ldf      = Claudio Beccari
1435                 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1436 japanese.ldf     = Japanese TEX Development Community
1437                 \Contact <https://github.com/texjporg/babel-japanese> ,
1438 latin.ldf        = Claudio Beccari
1439                 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1440 macedonian.ldf   = Stojan Trajanovski
1441                 \Contact <stojan [dot] trajanovski [at] gmail [dot] com> ,
1442 occitan.ldf      = Cedric Valmary %% Cédric Valmary
1443                 \Contact <cvalmary [at] yahoo [dot] fr> ,
1444 piedmontese.ldf  = Claudio Beccari
1445                 \Contact <claudio [dot] beccari [at] gmail [dot] com> ,

```

```

1446 pinyin.ldf      = Werner Lemberg
1447                  \Contact <wl [at] gnu [dot] org> ,
1448 romansh.ldf      = Claudio Beccari
1449                  \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
1450 russain.ldf      = Igor A [dot] Kotelnikov
1451                  \Contact <kia999 [at] mail [dot] ru> ,                % -- old?
1452 serbianc.ldf     = Filip Brcic
1453                  \Contact <brcha [at] users [dot] sourceforge [dot] net> ,
1454 spanglish.ldf    = J [dot] Luis Rivera
1455                  \Contact <jlrn77 [at] gmail [dot] com> ,                % -- old?
1456 spanish.ldf     = Javier Bezos
1457                  \Contact <http://www.texnia.com/contact.html> ,
1458 thaicjk.ldf      = Werner Lemberg
1459                  \Contact <wl [at] gnu [dot] org> ,
1460 ukraineb.ldf     = Sergiy Ponomarenko
1461                  \Contact <sergiy [dot] ponomarenko [at] gmail [dot] com> ,
1462 vietnamese.ldf   = Werner Lemberg
1463                  \Contact <wl [at] gnu [dot] org> ,
1464 %----- LAST LINE
1465 {\latexbug@empty} = {} ,

```

Keep the data but throw away the loop function.

```
1466 \endgroup
```

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

```
1467 \let\latexbug@addtofilelist\@addtofilelist
```

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

```
\latexbug@own 1468 \def\latexbug@zzzz{}
```

```
1469 \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.

```

1470 \let\latexbug@process@table\process@table
1471 \def\process@table{\global\let\@addtofilelist\latexbug@addtofilelist
1472   \latexbug@process@table
1473   \ifx\latexbug@zzzz\latexbug@empty
1474     \ifx\latexbug@own\latexbug@empty
1475       \else
1476         \typeout{}%
1477         \PackageWarningNoLine{latexbug}{%
1478           {Special bug tracker!\MessageBreak
1479 \MessageBreak
1480 This test file uses the following file(s)\MessageBreak
1481 \MessageBreak
1482           =====\MessageBreak
1483           \latexbug@own
1484           =====\MessageBreak
1485           \MessageBreak
1486 Please note that these files have their own\MessageBreak
1487 bug tracker and your issue should therefore\MessageBreak
1488 be reported in the indicated repository.\MessageBreak

```



```

1489      \MessageBreak
1490 If they are not necessary to exhibit the problem,\MessageBreak
1491 remove them from your example and rerun it,\MessageBreak
1492 otherwise report the issue in the listed repository.\MessageBreak
1493      \MessageBreak
1494 If different repositories are listed, try to\MessageBreak
1495 select the most appropriate one (but don't worry\MessageBreak
1496 too much, if the choice is not clear to you)}%
1497      \typeout{}%
1498      \fi
1499      \else
1500          \PackageError{latexbug}%
1501              {Third-party file(s)\MessageBreak
1502 \MessageBreak
1503 This test file uses third-party file(s)\MessageBreak
1504 \MessageBreak
1505 =====\MessageBreak
1506 \latexbug@zzzz
1507 =====\MessageBreak
1508 \MessageBreak
1509 So you should contact the authors\MessageBreak
1510 of these files, not the LaTeX Team!\MessageBreak
1511 (Or remove the packages that load\MessageBreak
1512 them, if they are not necessary to\MessageBreak
1513 exhibit the problem).\MessageBreak
1514 \MessageBreak
1515 If you think the bug is in core LaTeX\MessageBreak
1516 (as maintained by the LaTeX Team) but\MessageBreak
1517 these files are needed to demonstrate\MessageBreak
1518 the problem, please continue and mention\MessageBreak
1519 this explicitly in your bug report\MessageBreak
1520 (with an explanation why you think so)}{Please
1521             correct your test file prior
1522             to submitting the bug report.\MessageBreak
1523             Otherwise it is likely to be rejected!}%
1524      \fi
1525 }

```

`\@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_EX 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.

```

1526 \def\@addtofilelist#1{%
1527   \expandafter\latexbug@iftoplevel\@currnamestack{}\@nil
1528   \begingroup
1529     \xdef\latexbug@x{#1}% TODO: one-level sanitize
1530     \expandafter
1531     \ifx\csname latexbug@@\latexbug@x\endcsname\relax
1532       \def\latexbug@y{}%
1533     \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.

```

1534     \xdef\latexbug@y{\expandafter\expandafter\expandafter
1535         \@firstoftwo\cename latexbug@@\latexbug@x\endcsname}%
1536     \xdef\latexbug@z{\expandafter\expandafter\expandafter
1537         \@secondoftwo\cename latexbug@@\latexbug@x\endcsname}%
1538     \fi
1539     \ifx\latexbug@y\latexbug@us\else
1540     \ifx\latexbug@y\latexbug@usstar
1541         \begingroup
1542         \let\MessageBreak\relax
1543         \xdef\latexbug@own{%
1544             \latexbug@own\latexbug@x
1545             \space\space -> \space Report at:
1546             \ifx\latexbug@z\@empty
1547                 \Contact https://github.com/latex3/latex3/issues
1548             \else
1549                 \latexbug@z
1550             \fi
1551             \MessageBreak
1552         }%
1553         \endgroup
1554     \else
1555         \ifx\latexbug@y\latexbug@ignore\else
1556             {\let\MessageBreak\relax
1557                 \xdef\latexbug@zzzz{\latexbug@zzzz\latexbug@x
1558                     \ifx\latexbug@y\latexbug@empty\else
1559                         \space\space -> \space \latexbug@y
1560                         \space \latexbug@z
1561                     \fi
1562                     \MessageBreak}}%
1563             \fi
1564         \fi
1565     \fi
1566     \endgroup
1567 \fi
1568 \latexbug@addtofilelist{#1}}
1569 \def\latexbug@iftoptlevel #1#2\@nil{%
1570     \def\next{#1}%
1571     \ifx\next\@empty
1572 }
1573 \endinput
1574 </package>

```