The `latexbug` package*

The LaTeX Team

2026/10/15

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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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_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 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.

```
⟨*driver⟩
\RequirePackage{latexbug}
\documentclass{ltxdoc}
\GetFileInfo{latexbug.sty}
%\usepackage{geometry,footmisc,hyperref}  % uncomment for latexbug error
%\usepackage{xparse}                      % uncomment for latexbug error
\EnableCrossrefs
%\DisableCrossrefs    % Say \DisableCrossrefs if index is ready
%\OnlyDescription     % Comment out for implementation details
\begin{document}
   \DocInput{latexbug.dtx}
\end{document}
⟨/driver⟩
```

4 The implementation

```
⟨*package⟩
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{latexbug}[2026/10/15 v1.0t Bug-classification]
```

`\latexbug@empty` Fixed text used in checking what actions to take with different files.

`\latexbug@us` `\latexbug@ustar` `\latexbug@ignore`

```
\def\latexbug@empty{}
\def\latexbug@us{us}
\def\latexbug@usstar{us*}
```

```
\def\latexbug@ignore{ignore}
```

`\Contact` A very simple piece of markup, really.

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

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

```
\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).

```
\long\def\latexbug@loop #1 = #2 #3, {% spaces matter
  \global\@namedef{latexbug@@#1}{{#2}{#3}}%
  \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).*

```
\latexbug@loop
%---------------------------------
latexbug.sty = us ,
null.tex = ignore ,
regression-test = us ,
regression-test.tex = us ,
%--------------------------------- base
alltt.sty = us ,
ansinew.def = us ,
applemac.def = us ,
article.cls = us ,
article.sty = us ,
ascii.def = us ,
atbegshi-ltx.sty = us ,
atveryend-ltx.sty = us ,
bezier.sty = us ,
```

```
bk10.clo = us ,
bk11.clo = us ,
bk12.clo = us ,
book.cls = us ,
book.sty = us ,
cp1250.def = us ,
cp1252.def = us ,
cp1257.def = us ,
cp437.def = us ,
cp437de.def = us ,
cp850.def = us ,
cp852.def = us ,
cp858.def = us ,
cp865.def = us ,
decmulti.def = us ,
doc-v3beta.sty = us ,
doc-2016-02-15.sty = us,
doc-2021-06-01.sty = us,
doc.sty = us ,
docstrip.tex = us ,
exscale.sty = us ,
fix-cm.sty = us ,
fixltx2e.sty = us ,
flafter.sty = us ,
fleqn.clo = us ,
fleqn.sty = us ,
fltrace.sty = us ,
fontenc.sty = us ,
fontmath.cfg = us ,
fontmath.ltx = us ,
fonttext.cfg = us ,
fonttext.ltx = us ,
graphpap.sty = us ,
hyphen.ltx = us ,
idx.tex = us ,
ifthen.sty = us ,
inputenc.sty = us ,
lablst.tex = us ,
latex.ltx = us ,
latex209.def = us ,
latexrelease.sty = us ,
latexsym.sty = us ,
latin1.def = us ,
latin10.def = us ,
latin2.def = us ,
latin3.def = us ,
latin4.def = us ,
latin5.def = us ,
latin9.def = us ,
lcyenc.dfu = us ,
leqno.clo = us ,
leqno.sty = us ,
letter.cls = us ,
letter.sty = us ,
```

```
lppl.tex = us ,
ltluatex.lua = us ,
ltluatex.lua = us ,
ltluatex.tex = us ,
ltluatex.tex = us ,
ltnews.cls = us ,
ltxcheck.tex = us ,
ltxdoc.cls = us ,
ltxdoc.cfg = us ,
ltxguide.cls = us ,
ly1enc.dfu = us ,
macce.def = us ,
makeidx.sty = us ,
minimal.cls = us ,
newlfont.sty = us ,
next.def = us ,
nfssfont.tex = us ,
oldlfont.sty = us ,
omlcmm.fd = us ,
omlcmr.fd = us ,
omlenc.def = us ,
omllcmm.fd = us ,
omscmr.fd = us ,
omscmsy.fd = us ,
omsenc.def = us ,
omsenc.dfu = us ,
omslcmsy.fd = us ,
omxcmex.fd = us ,
omxlcmex.fd = us ,
openbib.sty = us ,
ot1cmdh.fd = us ,
ot1cmfib.fd = us ,
ot1cmfr.fd = us ,
ot1cmr.fd = us ,
ot1cmss.fd = us ,
ot1cmtt.fd = us ,
ot1cmvtt.fd = us ,
ot1enc.def = us ,
ot1enc.dfu = us ,
ot1lcmss.fd = us ,
ot1lcmtt.fd = us ,
ot2enc.dfu = us ,
ot4enc.def = us ,
preload.cfg = us ,
preload.ltx = us ,
proc.cls = us ,
proc.sty = us ,
report.cls = us ,
report.sty = us ,
sample2e.tex = us ,
sfonts.def = us ,
shortvrb.sty = us ,
showidx.sty = us ,
size10.clo = us ,
```

```
size11.clo = us ,
size12.clo = us ,
slides.cls = us ,
slides.def = us ,
slides.sty = us ,
small2e.tex = us ,
source2e.tex = us ,
source2edoc.cls = us ,
structuredlog.sty = us ,
syntonly.sty = us ,
t1cmdh.fd = us ,
t1cmfib.fd = us ,
t1cmfr.fd = us ,
t1cmr.fd = us ,
t1cmss.fd = us ,
t1cmtt.fd = us ,
t1cmvtt.fd = us ,
t1enc.def = us ,
t1enc.dfu = us ,
t1enc.sty = us ,
t1lcmss.fd = us ,
t1lcmtt.fd = us ,
t2aenc.dfu = us ,
t2benc.dfu = us ,
t2cenc.dfu = us ,
testpage.tex = us ,
texsys.cfg = us ,
textcomp-2018-08-11.sty = us ,
textcomp.sty = us ,
tracefnt.sty = us ,
ts1cmr.fd = us ,
ts1cmss.fd = us ,
ts1cmtt.fd = us ,
ts1cmvtt.fd = us ,
ts1enc.def = us ,
ts1enc.dfu = us ,
tuenc.def = us ,
tulmdh.fd = us ,
tulmr.fd = us ,
tulmss.fd = us ,
tulmssq.fd = us ,
tulmtt.fd = us ,
tulmvtt.fd = us ,
ucmr.fd = us ,
ucmss.fd = us ,
ucmtt.fd = us ,
ulasy.fd = us ,
ullasy.fd = us ,
utf8-2018.def = us ,
utf8.def = us ,
utf8enc.dfu = us ,
x2enc.dfu = us ,
%--------------------------------- tools
afterpage.sty = us ,
```

```
array-2016-10-06.sty = us ,
array-2020-02-10.sty = us ,
array-2023-11-01.sty = us ,
array.sty = us ,
bm.sty = us ,
calc.sty = us ,
dcolumn.sty = us ,
delarray.sty = us ,
e.tex = us ,
enumerate.sty = us ,
fontsmpl.sty = us ,
fontsmpl.tex = us ,
ftnright.sty = us ,
h.tex = us ,
hhline.sty = us ,
indentfirst.sty = us ,
l3sys-query.sty = us* ,
layout.sty = us ,
longtable-2020-01-07.sty = us ,
longtable.sty = us ,
multicol-2017-04-11.sty = us ,
multicol-2019-10-01.sty = us ,
multicol.sty = us ,
q.tex = us ,
r.tex = us ,
rawfonts.sty = us ,
s.tex = us ,
shellesc.sty = us ,
showkeys-2014-10-28.sty = us ,
showkeys.sty = us ,
somedefs.sty = us ,
tabularx.sty = us ,
thb.sty = us ,
thc.sty = us ,
thcb.sty = us ,
theorem.sty = us ,
thm.sty = us ,
thmb.sty = us ,
thp.sty = us ,
trace.sty = us ,
varioref-2016-02-16.sty = us ,
varioref.sty = us ,
verbatim.sty = us ,
verbtest.tex = us ,
x.tex = us ,
xr-2023-07-04.sty = us ,
xr.sty = us ,
xspace.sty = us ,
%-------------------------------- babel (locale files)
babel-slovenian.tex = ignore ,
babel-slovene.tex = ignore ,
babel-slovak.tex = ignore ,
babel-urdu.tex = ignore ,
babel-northernkurdish.tex = ignore ,
```

```
babel-kurmanji.tex = ignore ,
babel-northernkurdish-arabic.tex = ignore ,
babel-northernkurdish-arab.tex = ignore ,
babel-northernsami.tex = ignore ,
babel-samin.tex = ignore ,
babel-soga.tex = ignore ,
babel-swahili.tex = ignore ,
babel-cherokee.tex = ignore ,
babel-koyrachiini.tex = ignore ,
babel-kabyle.tex = ignore ,
babel-uyghur.tex = ignore ,
babel-kako.tex = ignore ,
babel-uzbek.tex = ignore ,
babel-uzbek-latn.tex = ignore ,
babel-uzbek-arabic.tex = ignore ,
babel-uzbek-cyrillic.tex = ignore ,
babel-uzbek-latin.tex = ignore ,
babel-uzbek-arab.tex = ignore ,
babel-uzbek-cyrl.tex = ignore ,
babel-polish.tex = ignore ,
babel-rombo.tex = ignore ,
babel-vietnam.tex = ignore ,
babel-vietnamese.tex = ignore ,
babel-masai.tex = ignore ,
babel-albanian.tex = ignore ,
babel-kamba.tex = ignore ,
babel-swedish.tex = ignore ,
babel-irish.tex = ignore ,
babel-hebrew.tex = ignore ,
babel-inarisami.tex = ignore ,
babel-malay.tex = ignore ,
babel-malay-singapore.tex = ignore ,
babel-malay-sg.tex = ignore ,
babel-malay-brunei.tex = ignore ,
babel-malay-bn.tex = ignore ,
babel-mazanderani.tex = ignore ,
babel-khmer.tex = ignore ,
babel-maltese.tex = ignore ,
babel-tasawaq.tex = ignore ,
babel-bemba.tex = ignore ,
babel-armenian.tex = ignore ,
babel-amharic.tex = ignore ,
babel-zarma.tex = ignore ,
babel-nynorsk.tex = ignore ,
babel-norwegiannynorsk.tex = ignore ,
babel-belarusian.tex = ignore ,
babel-danish.tex = ignore ,
babel-kalaallisut.tex = ignore ,
babel-shambala.tex = ignore ,
babel-marathi.tex = ignore ,
babel-kazakh.tex = ignore ,
babel-norsk.tex = ignore ,
babel-norwegian.tex = ignore ,
babel-akan.tex = ignore ,
```

```
babel-kyrgyz.tex = ignore ,
babel-gujarati.tex = ignore ,
babel-samburu.tex = ignore ,
babel-dzongkha.tex = ignore ,
babel-malagasy.tex = ignore ,
babel-mongolian.tex = ignore ,
babel-cornish.tex = ignore ,
babel-walser.tex = ignore ,
babel-yangben.tex = ignore ,
babel-sangu.tex = ignore ,
babel-bambara.tex = ignore ,
babel-centralatlastamazight.tex = ignore ,
babel-ancientgreek.tex = ignore ,
babel-machame.tex = ignore ,
babel-sichuanyi.tex = ignore ,
babel-ewe.tex = ignore ,
babel-hawaiian.tex = ignore ,
babel-japanese.tex = ignore ,
babel-churchslavonic.tex = ignore ,
babel-churchslavic.tex = ignore ,
babel-churchslavic-cyrs.tex = ignore ,
babel-churchslavic-glagolitic.tex = ignore ,
babel-churchslavic-glag.tex = ignore ,
babel-churchslavic-oldcyrillic.tex = ignore ,
babel-polytonicgreek.tex = ignore ,
babel-greek.tex = ignore ,
babel-monotonicgreek.tex = ignore ,
babel-igbo.tex = ignore ,
babel-latvian.tex = ignore ,
babel-occitan.tex = ignore ,
babel-westernfrisian.tex = ignore ,
babel-luxembourgish.tex = ignore ,
babel-italian.tex = ignore ,
babel-oromo.tex = ignore ,
babel-catalan.tex = ignore ,
babel-icelandic.tex = ignore ,
babel-czech.tex = ignore ,
babel-interlingua.tex = ignore ,
babel-telugu.tex = ignore ,
babel-friulian.tex = ignore ,
babel-vai-latin.tex = ignore ,
babel-vai-vaii.tex = ignore ,
babel-vai.tex = ignore ,
babel-vai-latn.tex = ignore ,
babel-vai-vai.tex = ignore ,
babel-russian.tex = ignore ,
babel-turkmen.tex = ignore ,
babel-jolafonyi.tex = ignore ,
babel-rundi.tex = ignore ,
babel-konkani.tex = ignore ,
babel-piedmontese.tex = ignore ,
babel-standardmoroccantamazight.tex = ignore ,
babel-quechua.tex = ignore ,
babel-meru.tex = ignore ,
```

```
babel-nyankole.tex = ignore ,
babel-romanian-md.tex = ignore ,
babel-romanian-moldova.tex = ignore ,
babel-romanian.tex = ignore ,
babel-moldavian.tex = ignore ,
babel-luo.tex = ignore ,
babel-usorbian.tex = ignore ,
babel-uppersorbian.tex = ignore ,
babel-yoruba.tex = ignore ,
babel-syriac.tex = ignore ,
babel-makhuwameetto.tex = ignore ,
babel-northernluri.tex = ignore ,
babel-aghem.tex = ignore ,
babel-meta.tex = ignore ,
babel-zulu.tex = ignore ,
babel-centralkurdish-latin.tex = ignore ,
babel-centralkurdish-latn.tex = ignore ,
babel-sorani.tex = ignore ,
babel-centralkurdish.tex = ignore ,
babel-cantonese.tex = ignore ,
babel-makonde.tex = ignore ,
babel-somali.tex = ignore ,
babel-sanskrit.tex = ignore ,
babel-sanskrit-telu.tex = ignore ,
babel-sanskrit-malayalam.tex = ignore ,
babel-sanskrit-devanagari.tex = ignore ,
babel-sanskrit-bengali.tex = ignore ,
babel-sanskrit-gujr.tex = ignore ,
babel-sanskrit-gujarati.tex = ignore ,
babel-sanskrit-deva.tex = ignore ,
babel-sanskrit-telugu.tex = ignore ,
babel-sanskrit-knda.tex = ignore ,
babel-sanskrit-beng.tex = ignore ,
babel-sanskrit-kannada.tex = ignore ,
babel-sanskrit-mlym.tex = ignore ,
babel-chiga.tex = ignore ,
babel-teso.tex = ignore ,
babel-yiddish.tex = ignore ,
babel-portuguese.tex = ignore ,
babel-brazilian.tex = ignore ,
babel-portuguese-portugal.tex = ignore ,
babel-portuguese-br.tex = ignore ,
babel-portuguese-brazil.tex = ignore ,
babel-portuguese-pt.tex = ignore ,
babel-pashto.tex = ignore ,
babel-embu.tex = ignore ,
babel-chinese-hans-mo.tex = ignore ,
babel-chinese-hant-hk.tex = ignore ,
babel-chinese-simplified.tex = ignore ,
babel-chinese-hans-hk.tex = ignore ,
babel-chinese-hant.tex = ignore ,
babel-chinese-simplified-singapore.tex = ignore ,
babel-chinese-simplified-hongkongsarchina.tex = ignore ,
babel-chinese-hans-sg.tex = ignore ,
```

```
babel-chinese-hans.tex = ignore ,
babel-chinese-traditional-macausarchina.tex = ignore ,
babel-chinese.tex = ignore ,
babel-chinese-hant-mo.tex = ignore ,
babel-chinese-traditional.tex = ignore ,
babel-chinese-simplified-macausarchina.tex = ignore ,
babel-chinese-traditional-hongkongsarchina.tex = ignore ,
babel-ukrainian.tex = ignore ,
babel-serbian-latn-me.tex = ignore ,
babel-serbian-latin-kosovo.tex = ignore ,
babel-serbian-latn.tex = ignore ,
babel-serbian-cyrl-me.tex = ignore ,
babel-serbian-cyrillic-montenegro.tex = ignore ,
babel-serbian-cyrillic.tex = ignore ,
babel-serbian-cyrl-ba.tex = ignore ,
babel-serbian-cyrl.tex = ignore ,
babel-serbian.tex = ignore ,
babel-serbian-latin-bosniaherzegovina.tex = ignore ,
babel-serbian-latin.tex = ignore ,
babel-serbian-cyrl-xk.tex = ignore ,
babel-serbian-latn-ba.tex = ignore ,
babel-serbian-latin-montenegro.tex = ignore ,
babel-serbian-latn-xk.tex = ignore ,
babel-serbian-cyrillic-kosovo.tex = ignore ,
babel-serbian-cyrillic-bosniaherzegovina.tex = ignore ,
babel-bodo.tex = ignore ,
babel-sango.tex = ignore ,
babel-punjabi-gurmukhi.tex = ignore ,
babel-punjabi-arabic.tex = ignore ,
babel-punjabi-guru.tex = ignore ,
babel-punjabi.tex = ignore ,
babel-punjabi-arab.tex = ignore ,
babel-shona.tex = ignore ,
babel-sinhala.tex = ignore ,
babel-malayalam.tex = ignore ,
babel-tibetan.tex = ignore ,
babel-macedonian.tex = ignore ,
babel-northndebele.tex = ignore ,
babel-tachelhit-tifinagh.tex = ignore ,
babel-tachelhit.tex = ignore ,
babel-tachelhit-tfng.tex = ignore ,
babel-tachelhit-latn.tex = ignore ,
babel-tachelhit-latin.tex = ignore ,
babel-hausa.tex = ignore ,
babel-hausa-niger.tex = ignore ,
babel-hausa-gh.tex = ignore ,
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```
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586 babel-english-unitedkingdom.tex = ignore ,
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612 babel-chechen.tex = ignore ,
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618 babel-tongan.tex = ignore ,
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621 babel-coptic.tex = ignore ,
622 babel-duala.tex = ignore ,
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624 babel-morisyen.tex = ignore ,
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626 babel-kalenjin.tex = ignore ,
627 babel-luyia.tex = ignore ,
628 babel-nuer.tex = ignore ,
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631 babel-slovene = ignore ,
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634 babel-northernkurdish = ignore ,
635 babel-kurmanji = ignore ,
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```
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637 babel-northernkurdish-arab = ignore ,
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667 babel-malay-sg = ignore ,
668 babel-malay-brunei = ignore ,
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670 babel-mazanderani = ignore ,
671 babel-khmer = ignore ,
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```
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754 babel-northernluri = ignore ,
755 babel-aghem = ignore ,
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797 babel-chinese-hans = ignore ,
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```
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```
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babel-nuer = ignore ,
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USenglish.sty = us ,
afrikaans.sty = us ,
albanian.sty = us ,
american.sty = us ,
austrian.sty = us ,
babel.def = us ,
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breton.sty = us ,
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catalan.sty = us ,
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interlingua.sty = us ,
irish.sty = us ,
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latin.sty = us ,
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norsk.sty = us ,
plain.def = us ,
polish.sty = us ,
portuges.sty = us ,
romanian.sty = us ,
russianb.sty = us ,
samin.sty = us ,
scottish.sty = us ,
serbian.sty = us ,
slovak.sty = us ,
slovene.sty = us ,
spanish.sty = us ,
swedish.sty = us ,
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ukraineb.sty = us ,
usorbian.sty = us ,
welsh.sty = us ,
xebabel.def = us ,
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```
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color.cfg = us ,
color.sty = us ,
dvipdf.def = us ,
dvipdfmx.def = us ,
dvips.def = us ,
dvipsnam.def = us ,
dvipsone.def = us ,
dvisvgm.def = us ,
dviwin.def = us ,
emtex.def = us ,
epsfig.sty = us ,
graphics-2017-06-25.sty = us ,
graphics.cfg = us ,
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graphicx.sty = us ,
keyval.sty = us ,
lscape.sty = us ,
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mathcolor.ltx = us ,
pctex32.def = us ,
pctexhp.def = us ,
pctexps.def = us ,
pctexwin.def = us ,
pdftex.def = us ,
rotating.sty = us ,
rotating.sty = us ,
tcidvi.def = us ,
trig.sty = us ,
truetex.def = us ,
xetex.def = us ,
%--------------------------------- mfnfss
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ot1panr.fd = us ,
ot1pss.fd = us ,
pandora.sty = us ,
uyfrak.fd = us ,
uygoth.fd = us ,
uyinit.fd = us ,
uyswab.fd = us ,
%--------------------------------- firstaid
everysel-ltx.sty = us ,
filehook-ltx.sty = us ,
%--------------------------------- amsmath
amsbsy.sty = us ,
amscd.sty = us ,
amsgen.sty = us ,
amsmath-2018-12-01.sty = us ,
amsmath.sty = us ,
amsopn.sty = us ,
amstex.sty = us ,
amstext.sty = us ,
amsxtra.sty = us ,
%--------------------------------- amscls (AMS)
```

```
amsart.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsbook.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsbooka.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsdtx.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsldoc.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsmidx.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsproc.cls = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amsthm.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
upref.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
%--------------------------------- amsfonts (AMS)
amsfonts.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
amssymb.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
cmmib57.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
eucal.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
eufrak.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
euscript.sty = American Mathematical Society \Contact tech-support [at] ams [dot] org ,
ueuex.fd = ignore ,
ueuf.fd = ignore ,
ueur.fd = ignore ,
ueus.fd = ignore ,
umsa.fd = ignore ,
umsb.fd = ignore ,
%--------------------------------- psnfss
8rbch.fd = us ,
8rpag.fd = us ,
8rpbk.fd = us ,
8rpcr.fd = us ,
8rphv.fd = us ,
8rpnc.fd = us ,
8rppl.fd = us ,
8rptm.fd = us ,
8rput.fd = us ,
8rpzc.fd = us ,
avant.sty = us ,
bookman.sty = us ,
chancery.sty = us ,
charter.sty = us ,
courier.sty = us ,
helvet.sty = us ,
mathpazo.sty = us ,
mathpple.sty = us ,
mathptm.sty = us ,
mathptmx.sty = us ,
newcent.sty = us ,
omlbch.fd = us ,
omlpag.fd = us ,
omlpbk.fd = us ,
omlpcr.fd = us ,
omlphv.fd = us ,
omlpnc.fd = us ,
omlppl.fd = us ,
omlptm.fd = us ,
omlptmcm.fd = us ,
omlput.fd = us ,
```

```
omlpzc.fd = us ,
omlzplm.fd = us ,
omlzpple.fd = us ,
omlztmcm.fd = us ,
omsbch.fd = us ,
omspag.fd = us ,
omspbk.fd = us ,
omspcr.fd = us ,
omsphv.fd = us ,
omspnc.fd = us ,
omsppl.fd = us ,
omsptm.fd = us ,
omsput.fd = us ,
omspzc.fd = us ,
omspzccm.fd = us ,
omszplm.fd = us ,
omszpple.fd = us ,
omsztmcm.fd = us ,
omxpsycm.fd = us ,
omxzplm.fd = us ,
omxzpple.fd = us ,
omxztmcm.fd = us ,
ot1bch.fd = us ,
ot1pag.fd = us ,
ot1pbk.fd = us ,
ot1pcr.fd = us ,
ot1phv.fd = us ,
ot1pnc.fd = us ,
ot1ppl.fd = us ,
ot1pplj.fd = us ,
ot1pplx.fd = us ,
ot1ptm.fd = us ,
ot1ptmcm.fd = us ,
ot1put.fd = us ,
ot1pzc.fd = us ,
ot1zplm.fd = us ,
ot1zpple.fd = us ,
ot1ztmcm.fd = us ,
palatino.sty = us ,
pifont.sty = us ,
t1bch.fd = us ,
t1pag.fd = us ,
t1pbk.fd = us ,
t1pcr.fd = us ,
t1phv.fd = us ,
t1pnc.fd = us ,
t1ppl.fd = us ,
t1pplj.fd = us ,
t1pplx.fd = us ,
t1ptm.fd = us ,
t1put.fd = us ,
t1pzc.fd = us ,
times.sty = us ,
ts1bch.fd = us ,
```

```
ts1pag.fd = us ,
ts1pbk.fd = us ,
ts1pcr.fd = us ,
ts1phv.fd = us ,
ts1pnc.fd = us ,
ts1ppl.fd = us ,
ts1pplj.fd = us ,
ts1pplx.fd = us ,
ts1ptm.fd = us ,
ts1put.fd = us ,
ts1pzc.fd = us ,
ufplm.fd = us ,
ufplmbb.fd = us ,
upsy.fd = us ,
upzd.fd = us ,
utopia.sty = us ,
%--------------------------------- l3experimental
l3benchmark.sty = us* ,                % -- old
l3bitset.sty = us* ,                   % -- old
l3draw.sty = us* ,
l3galley.sty = us* ,
l3graphics.sty = us* ,                 % -- old
l3opacity.sty = us* ,                  % -- old
l3str-format.sty = us* ,
l3sys-shell.sty = us* ,                % -- old
xcoffins.sty = us* ,
xgalley.sty = us* ,
%--------------------------------- l3packages
l3keys2e.sty = us* ,
xfp.sty = us* ,
xparse-2018-04-12.sty = us* ,
xparse-2020-10-01.sty = us* ,
xparse-generic.tex = us* ,
xparse.ltx = us* ,
xparse.sty = us* ,
xtemplate-2023-10-10.sty = us* ,
xtemplate.sty = us* ,
%--------------------------------- l3kernel / expl3
expl3-code.tex = ignore ,
expl3.ltx  = ignore ,
expl3.lua = us* ,
expl3.sty  = us* ,
l3backend-dvipdfmx.def = ignore ,
l3backend-dvips.def = ignore ,
l3backend-dvisvgm.def = ignore ,
l3backend-luatex.def = ignore ,
l3backend-pdfmode.def = ignore ,       % -- old
l3backend-pdftex.def = ignore ,
l3backend-xdvipdfmx.def = ignore ,     % -- old
l3backend-xetex.def = ignore ,
l3debug.def = us* ,
l3deprecation.def = ignore ,
l3doc.cls = us* ,
l3docstrip.tex = us ,
```

```
l3str-enc-iso88591.def = us* ,
l3str-enc-iso885910.def = us* ,
l3str-enc-iso885911.def = us* ,
l3str-enc-iso885913.def = us* ,
l3str-enc-iso885914.def = us* ,
l3str-enc-iso885915.def = us* ,
l3str-enc-iso885916.def = us* ,
l3str-enc-iso88592.def = us* ,
l3str-enc-iso88593.def = us* ,
l3str-enc-iso88594.def = us* ,
l3str-enc-iso88595.def = us* ,
l3str-enc-iso88596.def = us* ,
l3str-enc-iso88597.def = us* ,
l3str-enc-iso88598.def = us* ,
l3str-enc-iso88599.def = us* ,
%--------------------------------  TAGGING PROJECT
pdfmanagement.ltx = us*
                \Contact https://github.com/latex3/tagging-project/issues ,
pdfmanagement-testphase.sty = us*
                \Contact https://github.com/latex3/tagging-project/issues ,
tagpdf.sty = us*
                \Contact https://github.com/latex3/tagging-project/issues ,
tagpdf-debug.sty = us*
                \Contact https://github.com/latex3/tagging-project/issues ,
documentmetadata-support.ltx = us*
                \Contact https://github.com/latex3/tagging-project/issues ,
hgeneric-testphase.def = ignore ,
l3backend-testphase-luatex.def = ignore ,
l3backend-testphase-pdftex.def = ignore ,
l3backend-testphase-xetex.def = ignore ,
latex-lab-amsmath.ltx = ignore ,
latex-lab-footnotes.ltx = ignore ,
latex-lab-math.ltx = ignore ,
latex-lab-mathintent.ltx = ignore ,
latex-lab-mathpkg.ltx = ignore ,
latex-lab-mathtools.ltx = ignore ,
latex-lab-testphase-bib.sty = ignore ,
latex-lab-testphase-block.sty = ignore ,
latex-lab-testphase-float.sty = ignore ,
latex-lab-testphase-graphic.sty = ignore ,
latex-lab-testphase-latest.sty = ignore ,
latex-lab-testphase-marginpar.sty = ignore ,
latex-lab-testphase-math.sty = ignore ,
latex-lab-testphase-minipage.sty = ignore ,
latex-lab-testphase-new-or-1.sty = ignore ,
latex-lab-testphase-new-or-2.sty = ignore ,
latex-lab-testphase-sec.sty = ignore ,
latex-lab-testphase-table.sty = ignore ,
latex-lab-testphase-text.sty = ignore ,
latex-lab-testphase-title.sty = ignore ,
latex-lab-testphase-toc.sty = ignore ,
latex-lab-unicode-math.ltx = ignore ,
math-latex-lab-testphase.ltx = ignore ,
pdfmanagement-firstaid.sty = ignore ,
```

```
pdfmanagement-init.sty = ignore ,
pdfmanagement-testphase.ltx = ignore ,
phase-II-latex-lab-testphase.ltx = ignore ,
phase-III-latex-lab-testphase.ltx = ignore ,
table-latex-lab-testphase.ltx = ignore ,
tagpdf-luatex.def = ignore ,
title-latex-lab-testphase.ltx = ignore ,
%--------------------------------  EXTERNAL PACKAGES SUPPORTED BY THE LaTeX Team
bookmark.sty = us*
               \Contact https://github.com/LaTeX-Package-Repositories/bookmark/issues ,
bkm-xetex.def = ignore ,
bkm-dvipdfmx.def = ignore ,
bkm-dvips.def = ignore ,
bkm-luatex.def = ignore ,
bkm-pdftex.def = ignore ,
bkm-vtex.def = ignore ,
geometry.sty = us*
               \Contact https://github.com/LaTeX-Package-Repositories/geometry ,
hluatex.def  = ignore ,
hpdftex.def  = ignore ,
hxetex.def   = ignore ,
hypdoc.sty = us ,
hyperref.cfg = ignore ,
hyperref.sty = us*
               \Contact https://github.com/latex3/hyperref/issues ,
hyperref-langpatches.def = ignore ,
hyperref-colorschemes.def = ignore ,
luamml.sty = us*
             \Contact https://github.com/latex3/luamml/issues ,
pd1enc.def   = ignore ,
puenc.def    = ignore ,
xcolor.sty = us*
      \Contact https://github.com/latex3/xcolor/issues ,
%--------------------------------  PACKAGES BY MEMBERS OF THE LaTeX Team with their own rep
beamer.cls   = Joseph Wright
               \Contact https://github.com/josephwright/beamer/issues ,
dashundergaps.sty = Frank Mittelbach
              \Contact https://github.com/FrankMittelbach/fmitex-dashundergaps/issues ,
parnotes.sty = Frank Mittelbach
              \Contact https://github.com/FrankMittelbach/fmitex-parnotes ,
fewerfloatpages.sty = Frank Mittelbach
              \Contact https://github.com/FrankMittelbach/fmitex-fewerfloatpages ,
fontspec.sty = us*
               \Contact https://github.com/latex3/fontspec/issues ,
footmisc.sty = Frank Mittelbach
              \Contact https://github.com/FrankMittelbach/fmitex-footmisc ,
luatex85.sty   = Joseph Wright
               \Contact https://github.com/josephwright/luatex85/issues ,
parskip.sty = Frank Mittelbach
               \Contact https://github.com/FrankMittelbach/fmitex-parskip/issues ,
siunitx.sty  = Joseph Wright
               \Contact https://github.com/josephwright/siunitx/issues ,
unicodefonttable.sty = Frank Mittelbach
              \Contact https://github.com/FrankMittelbach/fmitex-unicodefonttable ,
```

```
unicode-math.sty = us*
                \Contact https://github.com/latex3/unicode-math/issues ,
widows-and-orphans.sty = Frank Mittelbach
                \Contact https://github.com/FrankMittelbach/fmitex-widows-and-orphans/issues
xfrac.sty = us*
                \Contact https://github.com/latex3/xfrac/issues ,
%--------------------------------  USEFUL FOR BUG REPORTS
blindtext.sty = ignore ,
etoolbox.sty = ignore ,
kantlipsum.sty   = ignore ,
lipsum.ltd   = ignore ,
lipsum.sty   = ignore ,
%--------------------------------  EXTERNALLY SUPPORTED
%
basque.ldf      = Juan M. Aguirregabiria
                  \Contact <http://tp.lc.ehu.es/jma.html> ,
belarusian.ldf  = Aleksey Novodvorsky and Andrew Shadura
                  \Contact <andrew [at] shadura [dot] me> ,
bosnian.ldf     = Samir Halilcevic %% Halilčević
                  \Contact <samir [dot] halilcevic [at] fet [dot] ba> ,
bulgarian.ldf   = Georgi N. Boshnakov
                  \Contact <Georgi Boshnakov [at] manchester [dot] ac [dot] uk> ,
croatian.ldf    = Ivan Kokan
                  \Contact <ivan [dot] kokan [at] gmail [dot] com> ,
estonian.ldf    = Jaan Vajakas
                  \Contact <jaanvajakas [at] hot [dot] ee> ,
frenchb.ldf     = Daniel Flipo
                  \Contact <daniel [dot] flipo [at] free [dot] fr> ,
friulan.ldf     = Claudio Beccari
                  \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
georgian.ldf    = Levan Shoshiashvili
                  \Contact <shoshia [at] hotmail [dot] com> ,
austrian.ldf    = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
german.ldf      = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
germanb.ldf     = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
naustrian.ldf   = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
ngerman.ldf     = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
ngermanb.ldf    = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
nswissgerman.ldf = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
swissgerman.ldf = Juergen Spitzmueller
                  \Contact <juergen [at] spitzmueller [dot] org> ,
greek.ldf       = Guenter Milde
                  \Contact <milde [at] users [dot] sf [dot] net> ,
magyar.ldf      = Peter Szabo %% Péter Szabó
                  \Contact <http://www.math.bme.hu/latex/> ,
italian.ldf     = Claudio Beccari
                  \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
```

```
japanese.ldf    = Japanese TEX Development Community
                  \Contact <https://github.com/texjporg/babel-japanese> ,
latin.ldf       = Claudio Beccari
                  \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
macedonian.ldf  = Stojan Trajanovski
                  \Contact <stojan [dot] trajanovski [at] gmail [dot] com> ,
occitan.ldf     = Cedric Valmary %% Cédric Valmary
                  \Contact <cvalmary [at] yahoo [dot] fr> ,
piedmontese.ldf = Claudio Beccari
                  \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
pinyin.ldf      = Werner Lemberg
                  \Contact <wl [at] gnu [dot] org> ,
romansh.ldf     = Claudio Beccari
                  \Contact <claudio [dot] beccari [at] gmail [dot] com> ,
russain.ldf     = Igor A [dot]  Kotelnikov
                  \Contact <kia999 [at] mail [dot] ru> ,               %  -- old?
serbianc.ldf    = Filip Brcic
                  \Contact <brcha [at] users [dot] sourceforge [dot] net> ,
spanglish.ldf   = J [dot]  Luis Rivera
                  \Contact <jlrn77 [at] gmail [dot] com> ,             %  -- old?
spanish.ldf     = Javier Bezos
                  \Contact <http://www.texnia.com/contact.html> ,
thaicjk.ldf     = Werner Lemberg
                  \Contact <wl [at] gnu [dot] org> ,
ukraineb.ldf    = Sergiy Ponomarenko
                  \Contact <sergiy [dot] ponomarenko [at] gmail [dot] com> ,
vietnamese.ldf  = Werner Lemberg
                  \Contact <wl [at] gnu [dot] org> ,
%--------------------------------- LAST LINE
{\latexbug@empty} = {} ,
```

Keep the data but throw away the loop function.

```
\endgroup
```

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

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

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

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

`\latexbug@process@table` `\process@table` A hook into a convenient place in the document set up: the initialization of NFSS 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.

```
\let\latexbug@process@table\process@table
\def\process@table{\global\let\@addtofilelist\latexbug@addtofilelist
  \latexbug@process@table
  \ifx\latexbug@zzzz\latexbug@empty
    \ifx\latexbug@own\latexbug@empty
    \else
      \typeout{}%
      \PackageWarningNoLine{latexbug}%
        {Special bug tracker!\MessageBreak
```

```
\MessageBreak
This test file uses the following file(s)\MessageBreak
\MessageBreak
        ==============\MessageBreak
        \latexbug@own
        ==============\MessageBreak
        \MessageBreak
Please note that these files have their own\MessageBreak
bug tracker and your issue should therefore\MessageBreak
be reported in the indicated repository.\MessageBreak
        \MessageBreak
If they are not necessary to exhibit the problem,\MessageBreak
remove them from your example and rerun it,\MessageBreak
otherwise report the  issue in the listed repository.\MessageBreak
        \MessageBreak
If different repositories are listed, try to\MessageBreak
select the most appropriate one (but don't worry\MessageBreak
too much, if the choice is not clear to you)}%
      \typeout{}%
    \fi
  \else
      \PackageError{latexbug}%
                   {Third-party file(s)\MessageBreak
\MessageBreak
This test file uses third-party file(s)\MessageBreak
\MessageBreak
        ==============\MessageBreak
        \latexbug@zzzz
        ==============\MessageBreak
        \MessageBreak
So you should contact the authors\MessageBreak
of these files, not the LaTeX Team!\MessageBreak
(Or remove the packages that load\MessageBreak
them, if they are not necessary to\MessageBreak
exhibit the problem).\MessageBreak
\MessageBreak
If you think the bug is in core LaTeX\MessageBreak
(as maintained by the LaTeX Team) but\MessageBreak
these files are needed to demonstrate\MessageBreak
the problem, please continue and mention\MessageBreak
this explicitly in your bug report\MessageBreak
(with an explanation why you think so)}{Please
                     correct your test file prior
                     to submitting the bug report.\MessageBreak
                     Otherwise it is likely to be rejected!}%
  \fi
}
```

`\@addtofilelist` `\latexbug@iftoplevel` First, a test to see if we are at the top level: there's no need to test dependencies of packages. Assuming we are doing a check, the aim is to see if the current name is known, and if it is whether it fits into one of our special cases. If it's one of the LaTeX 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.

```
\def\@addtofilelist#1{%
  \expandafter\latexbug@iftoplevel\@currnamestack {}\@nil
  \begingroup
    \xdef\latexbug@x{#1}% TODO: one-level sanitize
    \expandafter
    \ifx\csname latexbug@@\latexbug@x\endcsname\relax
      \def\latexbug@y{}%
    \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.

```
      \xdef\latexbug@y{\expandafter\expandafter\expandafter
        \@firstoftwo\csname latexbug@@\latexbug@x\endcsname}%
      \xdef\latexbug@z{\expandafter\expandafter\expandafter
        \@secondoftwo\csname latexbug@@\latexbug@x\endcsname}%
    \fi
    \ifx\latexbug@y\latexbug@us\else
      \ifx\latexbug@y\latexbug@usstar
        \begingroup
          \let\MessageBreak\relax
          \xdef\latexbug@own{%
            \latexbug@own\latexbug@x
            \space\space -> \space Report at:
        \ifx\latexbug@z\@empty
           \Contact https://github.com/latex3/latex3/issues
        \else
          \latexbug@z
        \fi
            \MessageBreak
          }%
        \endgroup
      \else
        \ifx\latexbug@y\latexbug@ignore\else
           {\let\MessageBreak\relax
             \xdef\latexbug@zzzz{\latexbug@zzzz\latexbug@x
               \ifx\latexbug@y\latexbug@empty\else
                 \space\space -> \space \latexbug@y
                                 \space \latexbug@z
               \fi
               \MessageBreak}}%
        \fi
      \fi
    \fi
    \endgroup
  \fi
  \latexbug@addtofilelist{#1}}
\def\latexbug@iftoplevel #1#2\@nil{%
  \def\next{#1}%
  \ifx\next\@empty
}
\endinput
```

⟨/package⟩