

Ruby - Bug #19872

TestRequireLib#test_thread_size test case is unstable

09/11/2023 02:05 PM - vo.x (Vit Ondruch)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 3.3.0dev (2023-09-05 master 7c8932365f) [x86_64-linux]	Backport: 3.0: UNKNOWN, 3.1: UNKNOWN, 3.2: UNKNOWN

Description

Just exploring the difference in skipped test cases, it seems to be due to TestRequireLib#test_thread_size. One test run might look like:

```
84) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/reline/history.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant Reline
85) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/reline/line_editor.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant Reline
86) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/net/http/generic_request.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant Net
87) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/markup/formatter.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
88) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/generator/pot/message_extractor.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
89) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/markup/block_quote.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
90) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/irb/context.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant IRB
91) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/markup/indented_paragraph.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
92) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/parser/text.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
93) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/markup/to_label.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
```

While in the other run, there is e.g. just one test skipped:

```
40) Skipped:
TestRequireLib#test_thread_size:/builddir/build/BUILD/ruby-3.3.0-7c8932365f/lib/rdoc/markdown/entities.rb [/builddir/build/BUILD/ruby-3.3.0-7c8932365f/test/ruby/test_require_lib.rb:21]:
uninitialized constant RDoc
```

I can't help myself, but this test case contains too much randomness to my taste.

Associated revisions

Revision 234722ed9fce33d7ec8152920636af663d527912 - 09/13/2023 01:43 AM - nobu (Nobuyoshi Nakada)

[Bug #19872] Refine TestRequireLib

Always test only the scripts just under "lib", and just under child directories which has not the same name script in the upper level; instead of random sampling from whole libraries.

Revision 234722ed9fce33d7ec8152920636af663d527912 - 09/13/2023 01:43 AM - nobu (Nobuyoshi Nakada)

[Bug #19872] Refine TestRequireLib

Always test only the scripts just under "lib", and just under child directories which has not the same name script in the upper level; instead of random sampling from whole libraries.

Revision 234722ed - 09/13/2023 01:43 AM - nobu (Nobuyoshi Nakada)

[Bug #19872] Refine TestRequireLib

Always test only the scripts just under "lib", and just under child directories which has not the same name script in the upper level; instead of random sampling from whole libraries.

History

#1 - 09/11/2023 02:07 PM - vo.x (Vit Ondruch)

Maybe predefining some well know namespaces could help? Or is it issue of the respective libraries, which does not support proper loading of nested files, without loading their dependencies first?

#2 - 09/11/2023 02:09 PM - vo.x (Vit Ondruch)

vo.x (Vit Ondruch) wrote in [#note-1](#):

Or is it issue of the respective libraries, which does not support proper loading of nested files, without loading their dependencies first?

Randomly looking at lib/reline/history.rb, maybe the Reline namespace could be defined on top of the file, why not?

#3 - 09/12/2023 06:51 AM - mame (Yusuke Endoh)

Maybe this is because the test of TestRequireLib does sampling:

https://github.com/ruby/ruby/blob/f1c78b23313e63eb31a213cc7277b1eb206a581b/test/ruby/test_require_lib.rb#L13

[@znz \(Kazuhiro NISHIYAMA\)](#) Should we fix the random seed at least? [@nobu \(Nobuyoshi Nakada\)](#) says that it should test only toplevel ruby files like drb (and some special files like net/http)

#4 - 09/13/2023 01:43 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [git|234722ed9fce33d7ec8152920636af663d527912](https://github.com/ruby/ruby/commit/234722ed9fce33d7ec8152920636af663d527912).

[Bug [#19872](#)] Refine TestRequireLib

Always test only the scripts just under "lib", and just under child directories which has not the same name script in the upper level; instead of random sampling from whole libraries.

#5 - 09/13/2023 07:07 AM - vo.x (Vit Ondruch)

Have not chance to test it yet, but the change LGTM. Thx!