

## Ruby master - Bug #16921

### s390x: random test failures for timeout or segmentation fault

05/29/2020 12:06 PM - jaruga (Jun Aruga)

<b>Status:</b>	Open	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Target version:</b>		
<b>ruby -v:</b>		<b>Backport:</b> 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN
<b>Description</b>		
<p>I observed the following error related to timeout or segmentation fault on Ruby 2.7.1 s390x in Fedora builds. The tests sometimes fail. It seems the s390x machine used in CI is slow. It's great if we can change the timeout casually if it essentially comes from the length of the timeout.</p> <p>It might be related to <a href="#">#16492</a>.</p> <pre>1) Failure: Fiddle::TestFunction#test_nogvl_poll [/buildddir/build/BUILD/ruby-2.7.1/test/fiddle/test_function.rb:95]: slept amount of time. Expected  200 - 714  (514) to be &lt;= 180.  2) Error: TestProcess#test_status_quit: Timeout::Error: execution of assert_in_out_err expired timeout (10 sec) pid 2682640 killed by SIGKILL (signal 9)  -   /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_process.rb:1446:in `block in test_status_quit'   /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_process.rb:37:in `block (2 levels) in with_tmpchdir'   /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_process.rb:36:in `chdir'   /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_process.rb:36:in `block in with_tmpchdir'   /buildddir/build/BUILD/ruby-2.7.1/lib/tmpdir.rb:89:in `mktmpdir'   /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_process.rb:34:in `with_tmpchdir'   /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_process.rb:1445:in `test_status_quit'  3) Error: TestRubyOptions#test_segv_test: Timeout::Error: execution of assert_in_out_err expired timeout (10 sec) pid 2683275 killed by SIGABRT (signal 6) (core dumped)  1) Error: TestRubyOptions#test_segv_loaded_features: Timeout::Error: execution of assert_in_out_err expired timeout (10 sec) pid 2181948 killed by SIGKILL (signal 9)  -   -e:1: [BUG] Segmentation fault at 0x00214b3c000003e8  2) Error: TestRubyOptions#test_segv_setproctitle: Timeout::Error: execution of assert_in_out_err expired timeout (10 sec) pid 2181951 killed by SIGKILL (signal 9)  -   -e:1: [BUG] Segmentation fault at 0x00214b3f000003e8  1) Error: TestSignal#test_ignored_interrupt: Timeout::Error: execution of assert_in_out_err expired timeout (10 sec) pid 2032663 killed by SIGKILL (signal 9)     /buildddir/build/BUILD/ruby-2.7.1/test/ruby/test_signal.rb:294:in `test_ignored_interrupt'</pre>		

## History

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### #1 - 05/29/2020 12:08 PM - jaruga (Jun Aruga)

- Subject changed from *s390x: random test failures for timeout or segmentation fault* to *s390x: random test failures for timeout or segmentation fault*

### #2 - 05/29/2020 12:22 PM - mame (Yusuke Endoh)

Try an environment variable RUBY\_TEST\_TIMEOUT\_SCALE. If you set RUBY\_TEST\_TIMEOUT\_SCALE=10, all timeout tests wait 10 times longer.

### #3 - 05/29/2020 08:00 PM - jaruga (Jun Aruga)

Thanks for the info! I will try the environment variable, and will let you know here.

### #4 - 06/18/2020 05:13 PM - vo.x (Vit Ondruch)

I think there is combination of two issues. There is possibly bug in EnvUtil.invoke\_ruby [1](#), which cannot properly handle failures caused by allocation in sigsev handler. I mildly remember I was trying to debug the issue, because the TestRubyOptions#test\_segv\_setproctitle error is nothing new:

[#13758](#)

### #5 - 07/23/2020 03:06 PM - jaruga (Jun Aruga)

Try an environment variable RUBY\_TEST\_TIMEOUT\_SCALE. If you set RUBY\_TEST\_TIMEOUT\_SCALE=10, all timeout tests wait 10 times longer.

Sorry for late response. I confirmed the environment variable improves. You can see <https://bugs.ruby-lang.org/issues/16492#note-8> for detail.

By the way, I would like to show the existing related issues here again.

- TestBugReporter#test\_bug\_reporter\_add [#16492](#)
- TestRubyOptions#test\_segv\_setproctitle [#13758](#)

### #6 - 07/23/2020 07:28 PM - jaruga (Jun Aruga)

I sent this PR related to this ticket.

<https://github.com/ruby/ruby/pull/3354>

It's to apply test-scale to test\_nogvl\_poll.

Other tests I showed above is applying time-scale.

I ran the Ruby tests with RUBY\_TEST\_TIMEOUT\_SCALE=100 make check 5 times on Fedora build system s390x . And all ok.

So, I am okay to close this ticket.

### #7 - 07/28/2020 06:55 AM - jaruga (Jun Aruga)

Can we apply [the patch](#) mentioned at <https://bugs.ruby-lang.org/issues/16492#note-11> to the following tests using assert\_in\_out\_err in those too?

- TestProcess#test\_status\_quit
- TestRubyOptions#test\_segv\_test
- TestRubyOptions#test\_segv\_loaded\_features
- TestRubyOptions#test\_segv\_setproctitle
- TestSignal#test\_ignored\_interrupt