

Ruby trunk - Bug #15377

rails unit tests get core dumped

12/04/2018 07:06 AM - evex (abdullah samman)

Status:	Closed	
Priority:	Normal	
Assignee:	mrkn (Kenta Murata)	
Target version:		
ruby -v:	ruby 2.6.0dev (2018-12-02 trunk 66124)	Backport: 2.4: UNKNOWN, 2.5: UNKNOWN
Description		
I'm coming from https://github.com/rails/rails/issues/34606#issuecomment-443914170		
Basically what happened is that rails Postgres tests started getting core dumped after this commit https://github.com/ruby/ruby/commit/a0e438cd3c28d2eaf4efa18243d5b6edafa14d88 on ruby.		
The error says		
<pre>\$ bundle exec rake test_postgresql Using postgresql # Running: ruby(52349,0x7fff99d3f380) malloc: *** error for object 0x7fed0f2b6ed0: pointer being freed was not allocated *** set a breakpoint in malloc_error_break to debug</pre>		
and here's a stack-trace for this issue		
<pre>(lldb) thread backtrace * thread #1, queue = 'com.apple.main-thread', stop reason = breakpoint 1.1 2.1 3.1 4.1 5.1 * frame #0: 0x00007fff613ef962 libsystem_malloc.dylib`malloc_error_break frame #1: 0x00007fff613e17a9 libsystem_malloc.dylib`free + 400 frame #2: 0x000000010367bf36 libruby.2.6.dylib`ruby_xfree [inlined] objspace_xfree(objspace=0x00007fed1850ddd0, ptr=0x00007fed0f2b6ed0, old_size=0) at gc.c:8313 frame #3: 0x000000010367bf23 libruby.2.6.dylib`ruby_xfree [inlined] ruby_sized_xfree(x=0x00007fed0f2b6ed0) at gc.c:8409 frame #4: 0x000000010367bf0d libruby.2.6.dylib`ruby_xfree(x=0x00007fed0f2b6ed0) at gc.c:8416 frame #5: 0x000000010368bee1 libruby.2.6.dylib`obj_free(objspace=0x00007fed1850ddd0, obj=140656539140320) at gc.c:2328 frame #6: 0x000000010368ab2c libruby.2.6.dylib`gc_sweep_step [inlined] gc_page_sweep(objspace=<unavailable>, sweep_page=0x00007fed2572e790) at gc.c:3637 frame #7: 0x000000010368aa42 libruby.2.6.dylib`gc_sweep_step(objspace=<unavailable>, heap=0x00007fed1850ddf0) at gc.c:3806 frame #8: 0x000000010368205b libruby.2.6.dylib`rb_gc_disable [inlined] gc_sweep_rest(objspace=<unavailable>) at gc.c:3856 frame #9: 0x0000000103682046 libruby.2.6.dylib`rb_gc_disable [inlined] gc_rest(objspace=0x00007fed1850ddd0) at gc.c:6687 frame #10: 0x0000000103681fb0 libruby.2.6.dylib`rb_gc_disable at gc.c:7572 frame #11: 0x00000001037ddf89 libruby.2.6.dylib`transient_heap_evacuate(dmy=<unavailable>) at transient_heap.c:730 frame #12: 0x000000010381ac06 libruby.2.6.dylib`rb_postponed_job_flush(vm=0x00007fed19000e00) at vm_trace.c:1898 frame #13: 0x00000001037b965c libruby.2.6.dylib`rb_threadptr_execute_interrupts(th=0x00007fed1850dbb0, blocking_timing=0) at thread.c:2172 frame #14: 0x00000001037fa31e libruby.2.6.dylib`vm_call0_body [inlined] rb_vm_check_ints(ec=0x00007fed1850e038) at vm_core.h:1808 frame #15: 0x00000001037fa300 libruby.2.6.dylib`vm_call0_body(ec=0x00007fed1850e038, calling=<unavailable>, ci=<unavailable>, cc=<unavailable>, argv=0x0000000103a28740) at vm_eval.c:200 frame #16: 0x00000001037f861f libruby.2.6.dylib`rb_funcallv [inlined] rb_vm_call0(ec=<unavailable>, recv=<unavailable>, id=<unavailable>, argc=2, argv=0x0000000103a28740, me=<unavailable>) at vm_eval.c:60 frame #17: 0x00000001037f85e8 libruby.2.6.dylib`rb_funcallv [inlined] rb_call0(ec=0x00007fed18</pre>		

```
50e038, recv=140656551148080, mid=3025, argc=2, argv=0x0000000103a28740, scope=CALL_FCALL, self=14
0656303907640) at vm_eval.c:308
  frame #18: 0x00000001037f8551 libruby.2.6.dylib`rb_funcallv [inlined] rb_call(recv=14065655114
8080, mid=3025, argc=2, argv=0x0000000103a28740, scope=CALL_FCALL) at vm_eval.c:601
  frame #19: 0x00000001037f8542 libruby.2.6.dylib`rb_funcallv(recv=140656551148080, mid=3025, ar
gc=2, argv=0x0000000103a28740) at vm_eval.c:823
  frame #20: 0x00000001037be407 libruby.2.6.dylib`thread_s_new(argc=2, argv=0x0000000103a28740,
klass=140656303907640) at thread.c:877
  frame #21: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007fed1d14ae80) at vm_inshelper.c:1908
  frame #22: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007fed1d14ae80, cc=<unavailable>) at vm_inshelper.c:1924
  frame #23: 0x00000001037efdff libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:751
  frame #24: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #25: 0x00000001037f861f libruby.2.6.dylib`rb_funcallv [inlined] rb_vm_call0(ec=<unavaila
ble>, recv=<unavailable>, id=<unavailable>, argc=1, argv=0x0000000103a286c8, me=<unavailable>) at
vm_eval.c:60
  frame #26: 0x00000001037f85e8 libruby.2.6.dylib`rb_funcallv [inlined] rb_call0(ec=0x00007fed18
50e038, recv=140656551148920, mid=3025, argc=1, argv=0x0000000103a286c8, scope=CALL_FCALL, self=14
0656295984040) at vm_eval.c:308
  frame #27: 0x00000001037f8551 libruby.2.6.dylib`rb_funcallv [inlined] rb_call(recv=14065655114
8920, mid=3025, argc=1, argv=0x0000000103a286c8, scope=CALL_FCALL) at vm_eval.c:601
  frame #28: 0x00000001037f8542 libruby.2.6.dylib`rb_funcallv(recv=140656551148920, mid=3025, ar
gc=1, argv=0x0000000103a286c8) at vm_eval.c:823
  frame #29: 0x00000001036f0189 libruby.2.6.dylib`rb_class_s_new(argc=<unavailable>, argv=<unava
ilable>, klass=<unavailable>) at object.c:2185
  frame #30: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007fed1d1495f0) at vm_inshelper.c:1908
  frame #31: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007fed1d1495f0, cc=<unavailable>) at vm_inshelper.c:1924
  frame #32: 0x00000001037f00af libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:766
  frame #33: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #34: 0x00000001037fe812 libruby.2.6.dylib`yield_under [inlined] vm_yield_with_cref(ec=<u
navailable>, argc=<unavailable>, argv=0x0000000103a28580) at vm.c:1138
  frame #35: 0x00000001037fe7db libruby.2.6.dylib`yield_under(under=140656551107040, self=<unava
ilable>, argc=0, argv=0x0000000103a28580) at vm_eval.c:1576
  frame #36: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007ffeec621ca0) at vm_inshelper.c:1908
  frame #37: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007ffeec621ca0, cc=<unavailable>) at vm_inshelper.c:1924
  frame #38: 0x0000000103809a46 libruby.2.6.dylib`vm_call_opt_send(ec=0x00007fed1850e038, reg_cf
p=<unavailable>, calling=<unavailable>, orig_ci=<unavailable>, orig_cc=<unavailable>) at vm_inshe
lper.c:2037
  frame #39: 0x00000001037efdff libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:751
  frame #40: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #41: 0x00000001037fc86e libruby.2.6.dylib`rb_yield [inlined] vm_yield at vm.c:1146
  frame #42: 0x00000001037fc85f libruby.2.6.dylib`rb_yield [inlined] rb_yield_0(argc=0, argv=<un
available>) at vm_eval.c:978
  frame #43: 0x00000001037fc85f libruby.2.6.dylib`rb_yield(val=<unavailable>) at vm_eval.c:991
  frame #44: 0x00000001035e1599 libruby.2.6.dylib`rb_ary_each(ary=140656539216000) at array.c:20
76
  frame #45: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007fed1bb8f9b0) at vm_inshelper.c:1908
  frame #46: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007fed1bb8f9b0, cc=<unavailable>) at vm_inshelper.c:1924
  frame #47: 0x00000001037efdff libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:751
  frame #48: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #49: 0x00000001037fc86e libruby.2.6.dylib`rb_yield [inlined] vm_yield at vm.c:1146
  frame #50: 0x00000001037fc85f libruby.2.6.dylib`rb_yield [inlined] rb_yield_0(argc=0, argv=<un
```

```

available>) at vm_eval.c:978
  frame #51: 0x00000001037fc85f libruby.2.6.dylib`rb_yield(val=<unavailable>) at vm_eval.c:991
  frame #52: 0x00000001035e1599 libruby.2.6.dylib`rb_ary_each(ary=140656341693360) at array.c:20
76
  frame #53: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007fed1bcb0150) at vm_inshelper.c:1908
  frame #54: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007fed1bcb0150, cc=<unavailable>) at vm_inshelper.c:1924
  frame #55: 0x00000001037efdff libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:751
  frame #56: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #57: 0x00000001037fc86e libruby.2.6.dylib`rb_yield [inlined] vm_yield at vm.c:1146
  frame #58: 0x00000001037fc85f libruby.2.6.dylib`rb_yield [inlined] rb_yield_0(argc=0, argv=<un
available>) at vm_eval.c:978
  frame #59: 0x00000001037fc85f libruby.2.6.dylib`rb_yield(val=<unavailable>) at vm_eval.c:991
  frame #60: 0x00000001035e1599 libruby.2.6.dylib`rb_ary_each(ary=140656521381480) at array.c:20
76
  frame #61: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007fed1bc093b0) at vm_inshelper.c:1908
  frame #62: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007fed1bc093b0, cc=<unavailable>) at vm_inshelper.c:1924
  frame #63: 0x00000001037efdff libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:751
  frame #64: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #65: 0x00000001037fc86e libruby.2.6.dylib`rb_yield [inlined] vm_yield at vm.c:1146
  frame #66: 0x00000001037fc85f libruby.2.6.dylib`rb_yield [inlined] rb_yield_0(argc=0, argv=<un
available>) at vm_eval.c:978
  frame #67: 0x00000001037fc85f libruby.2.6.dylib`rb_yield(val=<unavailable>) at vm_eval.c:991
  frame #68: 0x00000001035e7f96 libruby.2.6.dylib`rb_ary_collect(ary=140656309090560) at array.c
:3013
  frame #69: 0x0000000103808b91 libruby.2.6.dylib`vm_call_cfunc [inlined] vm_call_cfunc_with_fra
me(ec=<unavailable>, reg_cfp=<unavailable>, ci=0x00007fed1bc2dc90) at vm_inshelper.c:1908
  frame #70: 0x0000000103808aa4 libruby.2.6.dylib`vm_call_cfunc(ec=<unavailable>, reg_cfp=<unava
ilable>, calling=<unavailable>, ci=0x00007fed1bc2dc90, cc=<unavailable>) at vm_inshelper.c:1924
  frame #71: 0x00000001037efdff libruby.2.6.dylib`vm_exec_core(ec=<unavailable>, initial=<unavai
lable>) at insns.def:751
  frame #72: 0x000000010380362e libruby.2.6.dylib`rb_vm_exec(ec=0x00007fed1850e038, mjit_enable_
p=<unavailable>) at vm.c:0
  frame #73: 0x000000010371e298 libruby.2.6.dylib`rb_proc_call(self=<unavailable>, args=<unavail
able>) at proc.c:881
  frame #74: 0x000000010366c602 libruby.2.6.dylib`rb_exec_end_proc [inlined] exec_end_procs_chai
n(errp=0x00007fed1850e0b0) at eval_jump.c:105
  frame #75: 0x000000010366c5a9 libruby.2.6.dylib`rb_exec_end_proc at eval_jump.c:121
  frame #76: 0x000000010366cc2e libruby.2.6.dylib`ruby_finalize_0 at eval.c:137
  frame #77: 0x000000010366cda3 libruby.2.6.dylib`ruby_cleanup(ex=0) at eval.c:194
  frame #78: 0x000000010366d0a0 libruby.2.6.dylib`ruby_run_node(n=<unavailable>) at eval.c:317
  frame #79: 0x00000001035d8ee1 ruby`main(argc=<unavailable>, argv=<unavailable>) at main.c:42
  frame #80: 0x00007fff61237015 libdyld.dylib`start + 1

```

Repro steps:

```

rvm install ruby-head
git clone https://github.com/rails/rails.git
cd rails
bundle
cd activerecord
bundle exec rake test_postgresql

```

How can we fix this issue?

History

#1 - 12/04/2018 07:32 AM - ko1 (Koichi Sasada)

Hi,

I want to reproduce it, but I got the following error.

```
/home/ko1/ruby/tmp/rails/activerecord/lib/active_record/connection_adapters/postgresql_adapter.rb:50:in `rescue in postgresql_connection':  
FATAL: database "activerecord_unittest" does not exist (ActiveRecord::NoDatabaseError)
```

Could you help me?

#2 - 12/04/2018 07:58 AM - yahonda (Yasuo Honda)

You can create "activerecord_unittest" database by running this command below:

```
$ cd activerecord  
$ bundle exec rake db:postgresql:build
```

#3 - 12/04/2018 08:11 AM - ko1 (Koichi Sasada)

Hi, next errors:

<https://gist.github.com/ko1/3974289bd0b2686e0cf923301faab5cd>

#4 - 12/04/2018 08:16 AM - ko1 (Koichi Sasada)

all right,
I read https://guides.rubyonrails.org/development_dependencies_install.html#mysql-and-postgresql (thanks Kaneko-san) and I make my username superuser.

I got same critical failure.

Thank you!

#5 - 12/04/2018 08:53 AM - evex (abdullah samman)

ko1 (Koichi Sasada) wrote:

I got same critical failure.

Can you follow solutions here: <https://stackoverflow.com/questions/22135792/permission-denied-to-create-extension-uuid-oss>

It's the same issue in that thread.

#6 - 12/05/2018 03:40 AM - ko1 (Koichi Sasada)

- Assignee set to mrkn (Kenta Murata)
- Status changed from Open to Assigned

I mean "critical failure" is your issue (double free).
I could reproduce it. And it seems BigDecimal issue.

If you find more shorter reproducing process, it will help us.

Thanks,
Koichi

#7 - 12/05/2018 05:03 AM - ko1 (Koichi Sasada)

Now recent BigDecimal changes were reverted, and I passed tests now.

```
Finished in 448.578323s, 15.3998 runs/s, 40.4946 assertions/s.  
6908 runs, 18165 assertions, 0 failures, 0 errors, 2 skips
```

mrkn will fix this issue and will re-introduce them.

#8 - 12/05/2018 07:26 AM - evex (abdullah samman)

ko1 (Koichi Sasada) wrote:

Now recent BigDecimal changes were reverted, and I passed tests now.

```
Finished in 448.578323s, 15.3998 runs/s, 40.4946 assertions/s.  
6908 runs, 18165 assertions, 0 failures, 0 errors, 2 skips
```

mrkn will fix this issue and will re-introduce them.

Great! thanks :)

#9 - 03/20/2019 11:35 PM - hsbt (Hiroshi SHIBATA)

- *Status changed from Assigned to Closed*