

Ruby - Bug #12729

crash after refining private method to public

09/06/2016 06:26 PM - kernigh (George Koehler)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 2.4.0dev (2016-09-06 trunk 56078) [x86_64-openbsd6.0]	Backport: 2.1: REQUIRED, 2.2: REQUIRED, 2.3: REQUIRED

Description

If I am using a refinement to make a private method into a public one, and I call the method, then Ruby crashes. Here's a simple example:

```
class Cow
  private
  def moo() end
end

module PublicCows
  refine(Cow) {
    public :moo
  }
end

using PublicCows
Cow.new.moo
```

It segfaults:

```
$ ruby scratch.rb
scratch.rb:13: [BUG] Segmentation fault at 0x007f7ffffbdf8
ruby 2.4.0dev (2016-09-06 trunk 56078) [x86_64-openbsd6.0]

-- Control frame information -----
c:0002 p:0049 s:0007 e:000005 EVAL   scratch.rb:13 [FINISH]
c:0001 p:0000 s:0003 E:001d50 (none) [FINISH]

-- Ruby level backtrace information -----
scratch.rb:13:in `<main>'

-- Other runtime information -----

* Loaded script: scratch.rb

* Loaded features:

 0 enumerator.so
 1 thread.rb
 2 rational.so
 3 complex.so
 4 /home/kernigh/prefix/lib/ruby/2.4.0/x86_64-openbsd6.0/enc/encdb.so
 5 /home/kernigh/prefix/lib/ruby/2.4.0/x86_64-openbsd6.0/enc/trans/transdb.so
 6 /home/kernigh/prefix/lib/ruby/2.4.0/unicode_normalize.rb
 7 /home/kernigh/prefix/lib/ruby/2.4.0/x86_64-openbsd6.0/rbconfig.rb
 8 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/compatibility.rb
 9 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/defaults.rb
10 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/deprecate.rb
11 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/errors.rb
12 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/version.rb
13 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/requirement.rb
14 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/platform.rb
```

```
15 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/basic_specification.rb
16 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/stub_specification.rb
17 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/util/list.rb
18 /home/kernigh/prefix/lib/ruby/2.4.0/x86_64-openbsd6.0/stringio.so
19 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/specification.rb
20 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/exceptions.rb
21 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/dependency.rb
22 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/core_ext/kernel_gem.rb
23 /home/kernigh/prefix/lib/ruby/2.4.0/monitor.rb
24 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/core_ext/kernel_require.rb
25 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems.rb
26 /home/kernigh/prefix/lib/ruby/2.4.0/rubygems/path_support.rb
```

[NOTE]

You may have encountered a bug in the Ruby interpreter or extension libraries.
Bug reports are welcome.

For details: <http://www.ruby-lang.org/bugreport.html>

Abort trap (core dumped)

There's a small chance that I get a `SystemStackError` instead of a segfault:

```
$ ruby scratch.rb
scratch.rb:13:in `': stack level too deep (SystemStackError)
```

Feature [#12697](#) had inspired me to try making a refinement where `Module#attr_accessor` and `Module#define_method` are public.
That's how I found this bug.

Associated revisions

Revision 7bbab207cbe0c92777fcb30e21cde787ca9a3863 - 12/08/2016 05:16 AM - nobu (Nobuyoshi Nakada)

vm_insnhelper.c: zsuper in refinements

- vm_insnhelper.c (vm_call_zsuper): prevent infinite recursion
zsuper in refinements. [ruby-core:77161] [Bug #12729]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@57023 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 7bbab207 - 12/08/2016 05:16 AM - nobu (Nobuyoshi Nakada)

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History

#1 - 09/22/2016 05:19 PM - noahgibbs (Noah Gibbs)

On latest head of master I don't get this abort trap or core dump, but I also don't see it return. It hangs, using 100% CPU, for at least a full minute and can only be stopped with "kill 9".

#2 - 12/08/2016 04:41 AM - nobu (Nobuyoshi Nakada)

- Description updated

- Backport changed from 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN to 2.1: REQUIRED, 2.2: REQUIRED, 2.3: REQUIRED

#3 - 12/08/2016 05:16 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset r57023.

vm_insnhelper.c: zsuper in refinements

- vm_insnhelper.c (vm_call_zsuper): prevent infinite recursion
zsuper in refinements. [\[ruby-core:77161\]](#) [Bug [#12729](#)]