

Ruby master - Bug #11071

Stack consistency error while using RSpec and Timecop

04/15/2015 01:46 PM - jcoglan (James Coglan)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.2.2p95 (2015-04-13 revision 50295) [x86_64-linux]	Backport: 2.0.0: DONTNEED, 2.1: DONTNEED, 2.2: REQUIRED

Description

I have this Gemfile:

```
source 'https://rubygems.org'
```

```
ruby '2.2.2'
```

```
gem 'rspec'
```

```
gem 'timecop'
```

producing this Gemfile.lock:

GEM

```
remote: https://rubygems.org/
```

```
specs:
```

```
diff-lcs (1.2.5)
```

```
rspec (3.2.0)
```

```
  rspec-core (~> 3.2.0)
```

```
  rspec-expectations (~> 3.2.0)
```

```
  rspec-mocks (~> 3.2.0)
```

```
rspec-core (3.2.3)
```

```
  rspec-support (~> 3.2.0)
```

```
rspec-expectations (3.2.1)
```

```
  diff-lcs (>= 1.2.0, < 2.0)
```

```
  rspec-support (~> 3.2.0)
```

```
rspec-mocks (3.2.1)
```

```
  diff-lcs (>= 1.2.0, < 2.0)
```

```
  rspec-support (~> 3.2.0)
```

```
rspec-support (3.2.2)
```

```
timecop (0.7.3)
```

PLATFORMS

```
ruby
```

DEPENDENCIES

```
rspec
```

```
timecop
```

and this test file:

```
# timecop_spec.rb
```

```
require 'timecop'
```

```
describe Timecop do
```

```
  around do |example|
```

```
    Timecop.travel(Time.parse('2015-01-01 06:30:00'), &example)
```

```
  end
```

```
  it 'sets the current time' do
```

```
    Timecop.travel(Time.parse('2015-01-01 09:30:00')) {}
```

```
  end
```

```
end
```

When I run `bundle exec rspec -c timecop_spec.rb`, this is the output:

```
/home/jcoglan/projects/futurelearn/timecop-segfault/.bundle/ruby/2.2.0/gems/timecop-0.7.3/lib/timecop/timecop.rb:142: [BUG] Stack consistency error (sp: 145, bp: 144)
ruby 2.2.2p95 (2015-04-13 revision 50295) [x86_64-linux]
```

Related issues:

Related to Ruby master - Bug #11451: MRI crashes with 'Stack inconsistency er...

Closed

History

#1 - 04/15/2015 03:26 PM - myronmarston (Myron Marston)

There are two interesting things I've noticed about this:

1. It does not happen on 2.1, so it appears to be a regression in 2.2.
2. It appears to be related to `to_proc`. If you change [jcoglan \(James Coglan\)](#)'s example to use an around hook like this:

```
around do |example|
  Timecop.travel(Time.parse('2015-01-01 06:30:00')) { example.run }
end
```

...the segfault does not happen. The `to_proc` definition is here, FWIW:

<https://github.com/rspec/rspec-core/blob/v3.2.3/lib/rspec/core/example.rb#L244-L255>

If some ruby core folks want to work on this and would like a more isolated example (e.g. an example that triggers the same bug w/o loading RSpec itself), let me know and I can try to pare it down to something more minimal.

#2 - 04/16/2015 07:51 AM - nobu (Nobuyoshi Nakada)

- Description updated

- File `bug-11071.log` added

- Subject changed from *Segfault while using RSpec and Timecop* to *Stack consistency error while using RSpec and Timecop*

- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN to 2.0.0: DONTNEED, 2.1: DONTNEED, 2.2: REQUIRED

Reproduced with the trunk.

```
class E
  def initialize(&proc)
    @proc = proc
  end

  def run(a)
    @proc.call
  end

  def to_proc
    method(:run).to_proc
  end
end

class T
  def doit
    yield nil
  end
end

t = T.new
e = E.new {t.doit {}}
t.doit(&e)
```

#3 - 05/09/2015 04:53 AM - nobu (Nobuyoshi Nakada)

Possibly shortest code.

```
def doit
  yield nil
end
```

```
doit(&proc {doit {}}.method(:call))
```

But it doesn't happen, if the inner block has a single argument or arbitrary number arguments *.
Oppositely, it's similar but sp is less than bp when the arguments are more than one.
And it seems the point to reenter the same method doit.

#4 - 08/17/2015 01:03 PM - alexdowad (Alex Dowad)

This is fixed by the patch I just posted for [#11451](#).

#5 - 08/17/2015 01:07 PM - usa (Usaku NAKAMURA)

- *Related to Bug #11451: MRI crashes with 'Stack inconsistency error' when a method which yields is called recursively in a particular way added*

#6 - 07/23/2019 05:17 PM - jeremyevans0 (Jeremy Evans)

- *Status changed from Open to Closed*

Files

bug-11071.log	50.5 KB	04/16/2015	nobu (Nobuyoshi Nakada)
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