

## Ruby master - Bug #11492

### TracePoint API report extra return for defined method

08/27/2015 07:44 PM - os97673 (Oleg Sukhodolsky)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> ko1 (Koichi Sasada)	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.2.3p173 (2015-08-18 revision 51636) [x86_64-darwin14]	<b>Backport:</b> 2.0.0: DONTNEED, 2.1: DONE, 2.2: DONE
<b>Description</b> <pre>class A   define_method "method1" do     # puts "#{method_name} ({arg})"     return 1   end end  a = A.new  TracePoint.new do  tp    printf "%8s %13s %s:%-2d\n", tp.event, tp.method_id, tp.path, tp.lineno end.enable do   a.method1 end</pre>	
<b>Related issues:</b> Related to Backport21 - Backport #11646: Please backport r51713 <span style="float: right;">Closed</span>	

#### Associated revisions

##### Revision 868c98dc - 08/28/2015 01:20 AM - ko1 (Koichi Sasada)

- vm.c (hook\_before\_rewind): prevent kicking :return event while finishing vm\_exec func because invoke\_block\_from\_c() kick a :return event for bmethods. [Bug #11492]
- test/ruby/test\_settracefunc.rb: add a test.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@51713 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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**Revision 0518d299 - 10/27/2015 03:23 PM - nagachika (Tomoyuki Chikanaga)**

merge revision(s) 51713: [Backport #11492]

```
* vm.c (hook_before_rewind): prevent kicking :return event while
  finishing vm_exec func because invoke_block_from_c() kick a :return
  event for bmethods.
  [Bug #11492]
```

```
* test/ruby/test_settracefunc.rb: add a test.
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_2@52308 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 52308 - 10/27/2015 03:23 PM - nagachika (Tomoyuki Chikanaga)**

merge revision(s) 51713: [Backport #11492]

```
* vm.c (hook_before_rewind): prevent kicking :return event while
  finishing vm_exec func because invoke_block_from_c() kick a :return
  event for bmethods.
  [Bug #11492]
```

```
* test/ruby/test_settracefunc.rb: add a test.
```

**Revision bc090868 - 11/18/2015 11:17 AM - usa (Usaku NAKAMURA)**

merge revision(s) 51713: [Backport #11492] [Backport #11646]

```
* vm.c (hook_before_rewind): prevent kicking :return event while
  finishing vm_exec func because invoke_block_from_c() kick a :return
  event for bmethods.
  [Bug #11492]
```

```
* test/ruby/test_settracefunc.rb: add a test.
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_1@52639 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 52639 - 11/18/2015 11:17 AM - usa (Usaku NAKAMURA)**

merge revision(s) 51713: [Backport #11492] [Backport #11646]

```
* vm.c (hook_before_rewind): prevent kicking :return event while
  finishing vm_exec func because invoke_block_from_c() kick a :return
  event for bmethods.
  [Bug #11492]
```

```
* test/ruby/test_settracefunc.rb: add a test.
```

**History**

**#1 - 08/27/2015 07:48 PM - os97673 (Oleg Sukhodolsky)**

MRI 2.2.3 introduced problem with TracePoint events.  
For the provided test it reports extra return event for method1

```
b_call          ruby-17051.rb:14
  line          ruby-17051.rb:15
  call          method1 ruby-17051.rb:2
b_call          method1 ruby-17051.rb:2
  line          method1 ruby-17051.rb:4
b_return        method1 ruby-17051.rb:4
  return        method1 ruby-17051.rb:4
  return        method1 ruby-17051.rb:15
b_return        ruby-17051.rb:16
```

while 2.2.2 reports

```
b_call          ruby-17051.rb:14
  line          ruby-17051.rb:15
```

```
call      method1  ruby-17051.rb:2
b_call    method1  ruby-17051.rb:2
line      method1  ruby-17051.rb:4
b_return  method1  ruby-17051.rb:4
return    method1  ruby-17051.rb:15
b_return  ruby-17051.rb:16
```

This breaks calculation of frame stack's size which is used in debase and byebug

## #2 - 08/28/2015 12:53 AM - nagachika (Tomoyuki Chikanaga)

- Status changed from Open to Assigned

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

## #3 - 08/28/2015 01:21 AM - ko1 (Koichi Sasada)

- Status changed from Assigned to Closed

Applied in changeset r51713.

- 
- vm.c (hook\_before\_rewind): prevent kicking :return event while finishing vm\_exec func because invoke\_block\_from\_c() kick a :return event for bmethods. [Bug #11492]
  - test/ruby/test\_settracefunc.rb: add a test.

## #4 - 08/28/2015 04:46 PM - deivid (David Rodríguez)

Oleg, could you link to the original report where you found this out? I'd like to know what kind of bug reports to expect and maybe add a regression test in byebug itself.

## #5 - 08/28/2015 05:10 PM - os97673 (Oleg Sukhodolsky)

David Rodríguez wrote:

Oleg, could you link to the original report where you found this out? I'd like to know what kind of bug reports to expect and maybe add a regression test in byebug itself.

originally the problem was reported here (<https://youtrack.jetbrains.com/issue/RUBY-17051>) unfortunately user was unable to provide test and I've investigated the problem using log of event reported by debase

## #6 - 08/29/2015 10:24 AM - deivid (David Rodríguez)

Thanks!

## #7 - 08/29/2015 12:33 PM - os97673 (Oleg Sukhodolsky)

Reporter of original bug confirmed that ruby-head does fix the problem.

## #8 - 10/27/2015 03:23 PM - nagachika (Tomoyuki Chikanaga)

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

Backported into ruby\_2\_2 branch at r52308.

## #9 - 10/29/2015 09:24 AM - deivid (David Rodríguez)

Hi, this is indeed a regression in 2.2.3, but also a bug present in 2.1.7. Could we get it backported to 2.1 as well? Thanks!

## #10 - 11/03/2015 12:47 AM - usa (Usaku NAKAMURA)

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

## #11 - 11/03/2015 12:48 AM - usa (Usaku NAKAMURA)

- Related to Backport #11646: Please backport r51713 added

## #12 - 11/18/2015 11:17 AM - usa (Usaku NAKAMURA)

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

ruby\_2\_1 r52639 merged revision(s) 51713.