

Ruby trunk - Bug #9475

Behavior change with include + super + alias_method between 1.9.x and 2.x

02/03/2014 08:22 PM - benweint (Ben Weintraub)

Status:	Closed	
Priority:	Normal	
Assignee:	nobu (Nobuyoshi Nakada)	
Target version:		
ruby -v:	ruby 2.1.0p0 (2013-12-25 revision 44422) [x86_64-darwin12.0]	Backport: 1.9.3: DONTNEED, 2.0.0: DONE, 2.1: DONE
Description		
<p>Ruby 2.0 appears to have introduced a subtle behavior change in method resolution that persists in 2.1.0.</p> <p>The attached test case (also visible online at https://gist.github.com/benweint/8791007) is extracted from an actual application, and while I won't defend the need to do something like this, it is clear that the behavior changed in 2.0. Note that this sounds similar to https://bugs.ruby-lang.org/issues/9236 but is in fact distinct - the test case given in that bug was fixed in Ruby 2.1.</p> <p>Steps to reproduce:</p> <ol style="list-style-type: none">1. Run the attached testcase on Ruby 1.9.3 note the output2. Run the attached testcase on Ruby 2.0.0-p353 or 2.1.0-p0, and note the output <p>Expected results:</p> <p>While it's certainly not obvious to me what 'should' happen when executing this code, on 1.9.3, it produces this output:</p> <pre>foo from C foo from B foo from A</pre> <p>Actual results:</p> <p>On 2.0+, I get this instead</p> <pre>foo from C foo from B foo from B (again) foo from B foo from B (again) foo from B ... previous two lines repeated many times ... test.rb:11: stack level too deep (SystemStackError)</pre> <p>That is to say, on 2.0, we get into an infinitely recursive loop that doesn't happen with 1.9.3.</p>		
Related issues:		
Related to Ruby trunk - Bug #9663: Segfault with alias_method and include	Closed	03/22/2014

Associated revisions

Revision 3453070f - 03/20/2014 03:31 AM - nobu (Nobuyoshi Nakada)

vm_method.c: fix infinite recursion

- vm_method.c (rb_method_entry_get_without_cache): get rid of infinite recursion at aliases in a subclass and a superclass. return actually defined class for other than singleton class. [ruby-core:60431] [Bug #9475]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45367 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45367 - 03/20/2014 03:31 AM - nobu (Nobuyoshi Nakada)

vm_method.c: fix infinite recursion

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Revision 0b9f0164 - 04/30/2014 07:26 AM - usa (Usaku NAKAMURA)

merge revision(s) 45367,45387,45388,45389: [Backport #9475]

- vm_method.c (rb_method_entry_get_without_cache): me->klass is 0 for a method aliased in a module. [ruby-core:61636] [Bug #9663]
- vm_method.c (rb_method_entry_get_without_cache): get rid of infinite recursion at aliases in a subclass and a superclass. return actually defined class for other than singleton class. [ruby-core:60431] [Bug #9475]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@45750 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45750 - 04/30/2014 07:26 AM - usa (Usaku NAKAMURA)

merge revision(s) 45367,45387,45388,45389: [Backport #9475]

- vm_method.c (rb_method_entry_get_without_cache): me->klass is 0 for a method aliased in a module. [ruby-core:61636] [Bug #9663]
- vm_method.c (rb_method_entry_get_without_cache): get rid of infinite recursion at aliases in a subclass and a superclass. return actually defined class for other than singleton class. [ruby-core:60431] [Bug #9475]

Revision 67f5f1be - 05/15/2014 03:24 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r45367,r45387,r45388,r45389: [Backport #9475]

```
* vm_method.c (rb_method_entry_get_without_cache): get rid of
infinite recursion at aliases in a subclass and a superclass.
return actually defined class for other than singleton class.
[ruby-core:60431] [Bug #9475]
```

```
* vm_method.c (rb_method_entry_get_without_cache): me->klass is 0
for a method aliased in a module. [ruby-core:61636] [Bug #9663]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@45955 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45955 - 05/15/2014 03:24 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r45367,r45387,r45388,r45389: [Backport #9475]

```
* vm_method.c (rb_method_entry_get_without_cache): get rid of
```

```
infinite recursion at aliases in a subclass and a superclass.  
return actually defined class for other than singleton class.  
[ruby-core:60431] [Bug #9475]
```

```
* vm_method.c (rb_method_entry_get_without_cache): me->klass is 0  
for a method aliased in a module. [ruby-core:61636] [Bug #9663]
```

History

#1 - 02/04/2014 12:41 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Assigned
- Assignee set to nobu (Nobuyoshi Nakada)

#2 - 03/20/2014 03:31 AM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

Applied in changeset [r45367](#).

vm_method.c: fix infinite recursion

- vm_method.c (rb_method_entry_get_without_cache): get rid of infinite recursion at aliases in a subclass and a superclass. return actually defined class for other than singleton class. [Bug [#9475](#)]

#3 - 03/20/2014 03:47 AM - nobu (Nobuyoshi Nakada)

- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED

#4 - 03/20/2014 03:59 AM - nobu (Nobuyoshi Nakada)

- Description updated
- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED to 1.9.3: DONTNEED, 2.0.0: REQUIRED, 2.1: REQUIRED

#5 - 03/23/2014 02:44 PM - nagachika (Tomoyuki Chikanaga)

- Related to Bug #9663: Segfault with alias_method and include added

#6 - 04/30/2014 07:27 AM - usa (Usaku NAKAMURA)

- Backport changed from 1.9.3: DONTNEED, 2.0.0: REQUIRED, 2.1: REQUIRED to 1.9.3: DONTNEED, 2.0.0: DONE, 2.1: REQUIRED

backported [r45367](#), [r45387](#), [r45388](#) and [r45389](#) into ruby_2_0_0 at r45750.

#7 - 05/15/2014 03:25 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 1.9.3: DONTNEED, 2.0.0: DONE, 2.1: REQUIRED to 1.9.3: DONTNEED, 2.0.0: DONE, 2.1: DONE

[r45367](#), [r45387](#), [r45388](#) and [r45389](#) were backported into ruby_2_1 branch at r45955.

Files

test.rb	340 Bytes	02/03/2014	benweint (Ben Weintraub)
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