

## Ruby master - Bug #7613

### An Alias for a class method inherited from the Class class is not equal to the original method

12/24/2012 06:38 AM - zhangsu (Su Zhang)

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| <b>Status:</b> Closed  |                  |
| <b>Priority:</b> Normal  |                  |
| <b>Assignee:</b>   |                  |
| <b>Target version:</b> 1.9.3   |                  |
| <b>ruby -v:</b> ruby 1.9.3p327 (2012-11-10) [i386-mingw32]   | <b>Backport:</b> |
| <b>Description</b>   |                  |
| <pre>class Stream   class &lt;&lt; self     alias_method :open, :new   end end  open = Stream.method(:open) new = Stream.method(:new) p open, new # =&gt; #&lt;Method: Stream.new&gt;, #&lt;Method: Class#new&gt; p open.receiver, new.receiver # =&gt; Stream, Stream p open == new # =&gt; false</pre> |                  |
| Expect the last line to return true, but got false. According to the documentation for Method#==:  |                  |
| Two method objects are equal if they are bound to the same object and refer to the same method definition.   |                  |
| Here, open and new are all bound to Stream and I expect them to refer to the method definition too.  |                  |

#### Associated revisions

##### Revision d5a39c0a - 12/28/2012 02:23 AM - shugo (Shugo Maeda)

- proc.c (method\_eq): fix the documentation to refer to owner. [ruby-core:51105] [Bug #7613]
- test/ruby/test\_method.rb (test\_alias\_onwer): new test to confirm that `a == b` returns false if owners of a and b are different.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38638 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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**History**

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**#1 - 12/28/2012 11:23 AM - shugo (Shugo Maeda)**

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

This issue was solved with changeset r38638.  
 Su, thank you for reporting this issue.  
 Your contribution to Ruby is greatly appreciated.  
 May Ruby be with you.

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- proc.c (method\_eq): fix the documentation to refer to owner. [ruby-core:51105] [Bug #7613]
- test/ruby/test\_method.rb (test\_alias\_onwer): new test to confirm that `a == b` returns false if owners of a and b are different.

**#2 - 12/28/2012 11:26 AM - shugo (Shugo Maeda)**

zhangsu (Su Zhang) wrote:

```
class Stream
  class << self
    alias_method :open, :new
  end
end

open = Stream.method(:open)
new = Stream.method(:new)
p open, new # => #<Method: Stream.new>, #<Method: Class#new>
p open.receiver, new.receiver # => Stream, Stream
p open == new # => false
```

Expect the last line to return true, but got false. According to the documentation for Method#==:

open == new returns false because their owners are different.

```
p [open.owner, new.owner] #=> [#<Class:Stream>, Class]
```

Two method objects are equal if they are bound to the same object and refer to the same method definition.

Here, open and new are all bound to Stream and I expect them to refer to the method definition too.

I've fixed the documentation of Method#== as follows:

Two method objects are equal if they are bound to the same object and refer to the same method definition and their owners are the same class or module.

### #3 - 12/28/2012 11:36 AM - shugo (Shugo Maeda)

shugo (Shugo Maeda) wrote:

open == new returns false because their owners are different.

```
p [open.owner, new.owner] #=> [#<Class:Stream>, Class]
```

I forgot to explain why Method#== returns false if owners are different.

If owners of methods are different, the behavior of super is different in the methods, so Method#== should not return true for the methods.