

## Ruby master - Bug #7993

### owner of methods defined after using Module#prepend

03/02/2013 12:01 AM - no6v (Nobuhiro IMAI)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> RUBY_DESCRIPTION # => "ruby 2.1.0dev (2013-03-01 trunk 39546) [x86_64-linux]"	<b>Backport:</b> 1.9.3: DONTNEED, 2.0.0: DONE

#### Description

The owner of methods defined after using Module#prepend seems to be incorrect.

```
RUBY_DESCRIPTION # => "ruby 2.1.0dev (2013-03-01 trunk 39546) [x86_64-linux]"
```

```
class C
  attr_reader :a
  prepend Module.new
  attr_reader :b
end
C.instance_method(:a).owner # => C
C.instance_method(:b).owner # => #<C:0x00000000a52300>
C.new.method(:a).owner      # => C
C.new.method(:b).owner      # => #<C:0x00000000a52300>

module M
  attr_reader :a
  prepend Module.new
  attr_reader :b
end
M.instance_method(:a).owner # => M
M.instance_method(:b).owner # =>
# ~> -:19:in `<main>': undefined method `class' for #<M:0x00000000a515b8> (NoMethodError)
```

#### Related issues:

Related to Ruby master - Bug #7987: Method#parameters should consider a prepe...	<b>Closed</b>	<b>02/28/2013</b>
Is duplicate of Ruby master - Bug #7842: An alias of a "prepend"ed method ski...	<b>Closed</b>	<b>02/13/2013</b>
Has duplicate Ruby master - Bug #8817: Method#owner on prepended classes is a...	<b>Closed</b>	<b>08/25/2013</b>

#### Associated revisions

##### Revision b71956d1 - 12/13/2013 01:29 PM - nobu (Nobuyoshi Nakada)

proc.c, vm\_method.c: fix super and alias

- proc.c (method\_owner): return the class where alias is defined, not the class original method is defined.
- vm\_method.c (rb\_method\_entry\_make, rb\_alias): store the originally defined class in me. [Bug #7993] [Bug #7842] [Bug #9236]
- vm\_method.c (rb\_method\_entry\_get\_without\_cache): cache included module but not iclass.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44175 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 44175 - 12/13/2013 01:29 PM - nobu (Nobuyoshi Nakada)

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**Revision f0f3821b - 12/22/2013 02:33 PM - nagachika (Tomoyuki Chikanaga)**

merge revision(s) 44175,44179: [Backport #9236]

```
* proc.c (method_owner): return the class where alias is defined, not
the class original method is defined.
```

```
* vm_method.c (rb_method_entry_make, rb_alias): store the originally
defined class in me. [Bug #7993] [Bug #7842] [Bug #9236]
```

```
* vm_method.c (rb_method_entry_get_without_cache): cache included
module but not iclass.
```

```
* proc.c (mnew_from_me): achieve the original defined_class from
prepended iclass, to fix inherited owner.
```

```
* proc.c (method_owner): return the defined class, but not the
class which the method object is created from.
```

git-svn-id: [svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\\_2\\_0\\_0@44345](https://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@44345) b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**History**

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**#1 - 03/02/2013 02:41 AM - marcandre (Marc-Andre Lafortune)**

Agreed. I described this in [ruby-core:52261], part of issue [#7842](#).

**#2 - 12/13/2013 10:29 PM - nobu (Nobuyoshi Nakada)**

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r44175.  
 Nobuhiro, thank you for reporting this issue.  
 Your contribution to Ruby is greatly appreciated.  
 May Ruby be with you.

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`proc.c, vm_method.c`: fix super and alias

- `proc.c` (`method_owner`): return the class where alias is defined, not the class original method is defined.
- `vm_method.c` (`rb_method_entry_make`, `rb_alias`): store the originally defined class in me. [Bug #7993] [Bug #7842] [Bug #9236]
- `vm_method.c` (`rb_method_entry_get_without_cache`): cache included module but not `iclass`.

**#3 - 12/18/2013 12:49 PM - nobu (Nobuyoshi Nakada)**

- Backport set to 1.9.3: *DONTNEED*, 2.0.0: *REQUIRED*

**#4 - 12/30/2013 12:37 AM - nagachika (Tomoyuki Chikanaga)**

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

r44175 and r44179 were backported to `ruby_2_0_0` at r44345, and additionally r44198 was backported at 44366.  
See [#9236](#) too.

**#5 - 02/21/2014 06:17 AM - nobu (Nobuyoshi Nakada)**

- Description updated

**#6 - 04/22/2014 07:41 AM - nobu (Nobuyoshi Nakada)**

- Related to Bug #7987: *Method#parameters* should consider a prepended or refined method added