Ruby - Bug #9377

Seg fault on call of missing super from self.extended in a Module

01/07/2014 04:15 PM - jemc (Joe McIlvain)

Status:	Closed		
Priority:	Normal		
Assignee:			
Target version:			
ruby -v:	2.1.0	**Backport:**	1.9.3: DONTNEED, 2.0.0: DONE, 2.1: DONE

Description

Seg fault on call of missing super from self.extended in a Module
on 2.1.0-p0 and on 2.1.0-dev
x86_64 linux

Code to reproduce:

```
module A
  def foo; super end

  def self.extended(obj)
    instance_method(:foo).bind(obj).call
  end
end

Object.new.extend A
```

(stack trace is attached)

Note that calling from after extend is okay: (but raises missing super error)

```
module A
  def foo; super end
end

Object.new.extend(A).foo
#=> in `foo': super: no superclass method `foo' for #<Object:0x007fabf43d2730> (NoMethodError)
```

Also note that calling from within the extend as before, but having the method defined is also okay (and raises no error)

```
module ABase
  def foo; end
end

module A
  include ABase
  def foo; super end

  def self.extended(obj)
    instance_method(:foo).bind(obj).call
  end
end

Object.new.extend A
```

Associated revisions

Revision 5c0d17c9a2fbbb60e24cd6bd41ffdf8b63b07318 - 01/08/2014 01:53 PM - nobu (Nobuyoshi Nakada)

vm_insnhelper.c: revive r44455 for bound module method

* vm_insnhelper.c (vm_search_super_method): when super called in a
  bound UnboundMethod generated from a module, no superclass is

found since the current defined class is the module, then call
method_missing in that case. [ruby-core:59619] [Bug #9377]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44527 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 5c0d17c9 - 01/08/2014 01:53 PM - nobu (Nobuyoshi Nakada)

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Revision e7a2c4251e98cd515d861facbba2fa86983dfb89 - 02/05/2014 01:41 PM - naruse (Yui NARUSE)

merge revision(s) 44527,44552,44553:

```
    * vm_insnhelper.c (vm_search_super_method): when super called in a
      bound UnboundMethod generated from a module, no superclass is
      found since the current defined class is the module, then call
      method_missing in that case.  [ruby-core:59619] [Bug #9377]

    * vm_insnhelper.c (vm_search_super_method): allow bound method from a
      module, yet another method transplanting.
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@44843 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision e7a2c425 - 02/05/2014 01:41 PM - naruse (Yui NARUSE)

merge revision(s) 44527,44552,44553:

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    * vm_insnhelper.c (vm_search_super_method): when super called in a
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Revision 4bcae05f01915183e7bc525c0f2e4682a0ec40e0 - 02/19/2014 04:58 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r44527: [Backport #9377]

```
    * vm_insnhelper.c (vm_search_super_method): when super called in a
      bound UnboundMethod generated from a module, no superclass is
      found since the current defined class is the module, then call
      method_missing in that case.  [ruby-core:59619] [Bug #9377]
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@45051 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 4bcae05f - 02/19/2014 04:58 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r44527: [Backport #9377]

```
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@45051 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 01/08/2014 07:58 PM - nobu (Nobuyoshi Nakada)

- Description updated

#2 - 01/08/2014 10:53 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r44527.
Joe, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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  bound UnboundMethod generated from a module, no superclass is
  found since the current defined class is the module, then call
  method_missing in that case. [ruby-core:59619] [Bug #9377]

#3 - 01/08/2014 11:12 PM - nobu (Nobuyoshi Nakada)

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

Since 2.0, vm_search_superclass() doesn't traverse the receiver's ancestors.
It works just because an invalid klass is not dereferenced accidentally.

#4 - 02/19/2014 04:59 PM - nagachika (Tomoyuki Chikanaga)

- 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

r44527 was backported to ruby_2_0_0 at r45051.

#5 - 02/21/2014 06:15 AM - nobu (Nobuyoshi Nakada)

- Description updated

#6 - 02/22/2014 09:47 AM - naruse (Yui NARUSE)

- 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

ruby_2_1 r44843 merged revision(s) 44527,44552,44553.

Files

segfault.txt	10 KB	01/07/2014		jemc (Joe McIlvain)