Ruby master - Bug #13656
Method#super_method returns incorrect result dependent on unrelated module

06/13/2017 04:40 PM - ccutrer (Cody Cutrer)

Status: Closed
Priority: Normal
Assignee:
Target version:
ruby -v: ruby 2.4.1p111 (2017-03-22 revision 58053) [x86_64-darwin16]
Backport: 2.2: REQUIRED, 2.3: DONE, 2.4: DONE

Description

module Calculations
  def pluck
    puts "calculations"
  end
end

module Calculations2
  def pluck
    puts "calculations2"
    super
  end
end

class Relation
  include Calculations
end
Relation.prepend(Calculations2)

class CollectionProxy < Relation
  def pluck
    puts "collection_proxy"
    super
  end
end

module CollectionProxy2
  def unrelated
  end
end

# this is the critical line
CollectionProxy.prepend(CollectionProxy2)

ConcreteProxy = Class.new(CollectionProxy)

# these are the expected results
ConcreteProxy.new method(:pluck).owner == CollectionProxy
ConcreteProxy.new method(:pluck).super_method.owner == Calculations2
ConcreteProxy.new method(:pluck).super_method.super_method.owner == Calculations

The critical line is the CollectionProxy2 module. If I don't prepend it into CollectionProxy (or if I include it instead of prepend it), the expected results pass. But when it is prepended, the owner for all super_methods will always be CollectionProxy, as if it can't find any more ancestors (if you actually call ConcreteProxy.new.pluck it does call the three methods, in the correct order). So this is an introspection only problem.

Associated revisions
Revision dbf67bf0 - 06/14/2017 06:03 AM - nobu (Nobuyoshi Nakada)
proc.c: skip prepended modules
- proc.c (method_super_method): skip prepended modules and continue from the super class of the original class. [ruby-core:81666] [Bug #13656]

Revision 59080 - 06/14/2017 06:03 AM - nobu (Nobuyoshi Nakada)
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Revision 452f46b7 - 06/14/2017 01:08 PM - nobu (Nobuyoshi Nakada)
test/ruby/test_method.rb: refined [ruby-core:81666] [Bug #13656]

Revision 59082 - 06/14/2017 01:08 PM - nobu (Nobuyoshi Nakada)
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Revision 2459af86 - 06/30/2017 12:13 PM - usa (Usaku NAKAMURA)
merge revision(s) 59080,59082: [Backport #13656]

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Revision 59082 - 06/30/2017 12:13 PM - usa (Usaku NAKAMURA)
test/ruby/test_method.rb: refined [ruby-core:81666] [Bug #13656]

Revision 59231 - 06/30/2017 12:13 PM - usa (Usaku NAKAMURA)
merge revision(s) 59080,59082: [Backport #13656]

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Revision 59082 - 06/30/2017 12:13 PM - usa (Usaku NAKAMURA)
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Revision c358595a - 07/23/2017 07:02 AM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 59080,59082: [Backport #13656]

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[ruby-core:81666] [Bug #13656]
test/ruby/test_method.rb: refined  [ruby-core:81666] [Bug #13656]

Revision 59395 - 07/23/2017 07:02 AM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 59080,59082: [Backport #13656]

proc.c: skip prepended modules

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  continue from the super class of the original class.
[ruby-core:81666] [Bug #13656]
test/ruby/test_method.rb: refined  [ruby-core:81666] [Bug #13656]

History

#1 - 06/14/2017 06:01 AM - nobu (Nobuyoshi Nakada)
- Backport changed from 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN to 2.2: REQUIRED, 2.3: REQUIRED, 2.4: REQUIRED
- Description updated

#2 - 06/14/2017 06:04 AM - nobu (Nobuyoshi Nakada)
- Status changed from Open to Closed

Applied in changeset trunk|r59080.

proc.c: skip prepended modules

- proc.c (method_super_method): skip prepended modules and continue from the super class of the original class. [ruby-core:81666] [Bug #13656]

#3 - 06/30/2017 12:13 PM - usa (Usaku NAKAMURA)
- Backport changed from 2.2: REQUIRED, 2.3: REQUIRED, 2.4: REQUIRED to 2.2: REQUIRED, 2.3: DONE, 2.4: REQUIRED

ruby_2_3 r59231 merged revision(s) 59080,59082.

#4 - 07/23/2017 07:02 AM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.2: REQUIRED, 2.3: DONE, 2.4: REQUIRED to 2.2: REQUIRED, 2.3: DONE, 2.4: DONE

ruby_2_4 r59395 merged revision(s) 59080,59082.