Hello,

I have discovered a regression in the behaviour of `defined?(super)`). It functions as expected in 1.9.3-p392, but has changed in 2.0.0-p0 and in 2.1.0dev (2013-05-03 trunk 40571).

On Ruby 1.9.3, the call returns the string `("super")`. On 2.0.0-p0 and above, the call returns `({nil})`. The change seems to be specific to the inside of a block in a method that is defined in a module that is extended onto the object where the method is called.

This is a minimal reproduction example, which I have also attached as "super-gone.rb".

```ruby
class C
def x; end
end

module M
def b; yield; end
def x
  b do
    # On 1.9.3, this is "super", but on 2.0.0 it is nil
    p defined?(super)
  end
end
end

c = C.new
c.extend M

c.x

Thank you.
```

Related issues:
Related to Ruby master - Bug #6644: Weird behavior of defined?(super) check i... Closed 06/25/2012

Associate revisions
Revision 08fd2ce - 05/05/2013 07:29 AM - nobu (Nobuyoshi Nakada)

insns.def: method entry from method frame

- insns.def (defined): get method entry from the method top level frame, not block frame. [ruby-core:54769] [Bug #8367]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@40583 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 40583 - 05/05/2013 07:29 AM - nobu (Nobuyoshi Nakada)

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Revision 4c1f8acd - 05/08/2013 02:38 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 40583,40584,40585,40590: [Backport #8367]

* insns.def (defined): get method entry from the method top level frame, not block frame. [ruby-core:54769] [Bug #8367]


* vm_insnhelper.c (vm_search superclass): return error but not raise exceptions.

* vm_insnhelper.c (vm_search_super_method): check the result of vm_search superclass and raise exceptions on error.
  vm_search superclass and raise exceptions on error.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@40613 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 40613 - 05/08/2013 02:38 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 40583,40584,40585,40590: [Backport #8367]

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History

#1 - 05/05/2013 12:39 PM - nagachika (Tomoyuki Chikanaga)
- Category set to core
- Status changed from Open to Assigned
- Assignee set to nobu (Nobuyoshi Nakada)
- Target version set to 2.1.0
- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN to 1.9.3: UNKNOWN, 2.0.0: REQUIRED

#2 - 05/05/2013 04:29 PM - nobu (Nobuyoshi Nakada)
This issue was solved with changeset r40583.
André, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

insns.def: method entry from method frame

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#3 - 05/05/2013 04:34 PM - nobu (Nobuyoshi Nakada)
- Tracker changed from Bug to Backport
- Project changed from Ruby master to Backport200
- Category deleted (core)
- Status changed from Closed to Assigned
- Assignee changed from nobu (Nobuyoshi Nakada) to nagachika (Tomoyuki Chikanaga)
- Target version deleted (2.1.0)

#4 - 05/06/2013 12:56 AM - nagachika (Tomoyuki Chikanaga)
Hello,
Should I backport r40584 too?

#5 - 05/06/2013 09:28 AM - nobu (Nobuyoshi Nakada)
Probably, yes.

#6 - 05/08/2013 11:38 PM - nagachika (Tomoyuki Chikanaga)
- Status changed from Assigned to Closed

This issue was solved with changeset r40613.
André, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

merge revision(s) 40583,40584,40585,40590: [Backport #8367]

* insns.def (defined): get method entry from the method top level frame, not block frame.  [ruby-core:54769] [Bug #8367]

* insns.def (defined): use vm_search_superclass() like as normal super
call. based on a patch <https://gist.github.com/wanabe/5520026> by
wanabe.

* vm_insnhelper.c (vm_search_superclass): return error but not raise
exceptions.

* vm_insnhelper.c (vm_search_super_method): check the result of
vm_search superclass and raise exceptions on error.

vm_search superclass and raise exceptions on error.

Files
super-gone.rb 491 Bytes 05/04/2013 indirect (André Arko)