

Ruby - Bug #15758

Object.const_defined?(name) falsely returns true on classes that are not defined

04/08/2019 11:30 AM - dux (Dino Reic)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	2.6.2, 2.7.0-dev	Backport: 2.4: DONTNEED, 2.5: DONTNEED, 2.6: DONE

Description

in short <https://i.imgur.com/qvllBuu.png>

Object.const_defined?('Baz::Bar') -> true

yet Baz::Bar -> class not found!

test to run, all ok on ruby 2.6.0, bug in 2.6.2

```
class Foo
end

class Bar
end

class Baz
  class Foo
  end
end

###

def report klass
  name      = "Object.const_defined?('%s')" % klass
  exists    = Object.const_defined?(klass)
  instance  = eval klass rescue nil
  check     = (exists && instance) || (!exists && !instance)? 'ok' : 'ERROR!'

  puts [
    name.ljust(35),
    exists.to_s.ljust(5),
    (instance ? instance.to_s : 'nil').ljust(8),
    check
  ].join(' -> ')
end

report 'Foo'
report 'Bar'
report 'Baz'
report 'Naat'
report 'Baz::Foo'
report 'Baz::Bar'
report 'Baz::Naat'
puts '---'
report 'Baz::Foo::Bar::Baz::Foo' # true in 2.6.2 :)
```

running produces output

Object.const_defined?('Foo')	-> true	-> Foo	-> ok
Object.const_defined?('Bar')	-> true	-> Bar	-> ok
Object.const_defined?('Baz')	-> true	-> Baz	-> ok
Object.const_defined?('Naat')	-> false	-> nil	-> ok

```
Object.const_defined?('Baz::Foo')    -> true  -> Baz::Foo -> ok
Object.const_defined?('Baz::Bar')    -> true  -> nil      -> ERROR!
Object.const_defined?('Baz::Naat')   -> false -> nil      -> ok
---
Object.const_defined?('Baz::Foo::Bar::Baz::Foo') -> true  -> nil      -> ERROR!
```

Related issues:

Has duplicate Ruby - Bug #15875: const_defined? behavior inconsistency in 2.6...

Closed

Associated revisions

Revision d10451f3fd51f577e704db770de48d05044eb45c - 04/08/2019 01:47 PM - nobu (Nobuyoshi Nakada)

object.c: fix searching nested const paths

- object.c (rb_mod_const_get, rb_mod_const_defined): nested const paths should not search from toplevel constants.
[ruby-core:92202] [Bug #15758]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@67472 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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Revision d10451f3 - 04/08/2019 01:47 PM - nobu (Nobuyoshi Nakada)

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Revision 15eba4ed0ebb4e019a037b0af10b34fdb85e03a - 12/09/2019 12:06 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) e1b592b508c72a56ae012869d97fe1580ff87246,d10451f3fd51f577e704db770de48d05044eb45c: [Backport #15758]

```
test_module.rb: fix a typo
```

```
* test/ruby/test_module.rb (TestModule#test_nested_get): fix a
  typo. nested module's name is a qualified path.
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_6@67830 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 15eba4ed0ebb4e019a037b0af10b34fdb85e03a - 12/09/2019 12:06 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) e1b592b508c72a56ae012869d97fe1580ff87246,d10451f3fd51f577e704db770de48d05044eb45c: [Backport #15758]

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Revision 15eba4ed - 12/09/2019 12:06 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) e1b592b508c72a56ae012869d97fe1580ff87246,d10451f3fd51f577e704db770de48d05044eb45c: [Backport #15758]

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History

#1 - 04/08/2019 11:43 AM - dux (Dino Reic)

- Description updated

#2 - 04/08/2019 01:45 PM - dux (Dino Reic)

- ruby -v changed from 2.6.2 to 2.6.2, 2.7.0-dev

#3 - 04/08/2019 01:46 PM - dux (Dino Reic)

- Description updated

#4 - 04/08/2019 01:47 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset trunk|r67472.

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[\[ruby-core:92202\]](#) [Bug [#15758](#)]

#5 - 05/25/2019 04:50 AM - nobu (Nobuyoshi Nakada)

- Has duplicate Bug #15875: const_defined? behavior inconsistency in 2.6.x series added

#6 - 05/25/2019 04:50 AM - nobu (Nobuyoshi Nakada)

- Backport changed from 2.4: UNKNOWN, 2.5: UNKNOWN, 2.6: UNKNOWN to 2.4: DONTNEED, 2.5: DONTNEED, 2.6: REQUIRED

#7 - 12/09/2019 12:06 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.4: DONTNEED, 2.5: DONTNEED, 2.6: REQUIRED to 2.4: DONTNEED, 2.5: DONTNEED, 2.6: DONE

ruby_2_6 r67830 merged revision(s) e1b592b508c72a56ae012869d97fe1580ff87246,d10451f3fd51f577e704db770de48d05044eb45c.

Files

bug.rb	581 Bytes	04/08/2019	dux (Dino Reic)
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