

Ruby trunk - Bug #9381

2.1.0 Regression. Hash lookup with #hash and #eql?

01/08/2014 12:56 PM - nick78 (Nick S)

Status:	Closed	
Priority:	Normal	
Assignee:	nobu (Nobuyoshi Nakada)	
Target version:		
ruby -v:	ruby 2.1.0p0 (2013-12-25 revision 44422) [x86_64-linux]	Backport: 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: DONE, 2.2: DONE

Description

Ruby 2.1.0 won't fetch objects when the lookup key overrides #hash and #eql?. This is a regression as it works as expected in ruby 1.8, 1.9 and 2.0.

```
class Wrapper
  def initialize(obj)
    @obj = obj
  end

  def method_missing(symbol, *args, &block)
    @obj.__send__(symbol, *args, &block)
  end

  def hash
    @obj.hash
  end

  def eql?(other)
    @obj.eql?(other)
  end
end

hash = { 5 => "LOOKUP SUCCEEDED" }

# Prints "LOOKUP SUCCEEDED" on RUBY < 2.1.0. Fails on RUBY 2.1.0.
p hash[Wrapper.new(5)]
```

Associated revisions

Revision ab6efa5b - 01/08/2014 06:55 AM - nobu (Nobuyoshi Nakada)

object.c: hash value from objid with salt

- hash.c (rb_objid_hash): return hash value from object ID with a salt, extract from rb_any_hash().
- object.c (rb_obj_hash): return same value as rb_any_hash(). fix r44125. [ruby-core:59638] [Bug #9381]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44525 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 44525 - 01/08/2014 06:55 AM - nobu (Nobuyoshi Nakada)

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Revision 72d18038 - 02/05/2014 02:53 PM - naruse (Yui NARUSE)

merge revision(s) 44525,44534,44537: [Backport #9381]

- * hash.c (rb_objid_hash): return hash value from object ID with a salt, extract from rb_any_hash().
- * object.c (rb_obj_hash): return same value as rb_any_hash(). fix r44125. [ruby-core:59638] [Bug #9381]
- * hash.c (rb_any_hash): should treat the return value of rb_objid_hash() as `long`, because ruby assumes the object id of an object is `long`. this fixes test failures on mswin64 introduced at r44525.
- * hash.c (rb_objid_hash): should return `long`. brushup r44534.
- * object.c (rb_obj_hash): follow above change. as `long`, because ruby assumes the hash value of the object id of an object is `long`.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@44846 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 4de35baf - 07/29/2015 05:06 AM - nobu (Nobuyoshi Nakada)

test_hash.rb: add assertions

- test/ruby/test_hash.rb (test_wrapper_of_special_const): test other special objects. [Bug #9381]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@51423 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51423 - 07/29/2015 05:06 AM - nobu (Nobuyoshi Nakada)

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Revision efc7a3a7 - 07/29/2015 05:53 AM - nobu (Nobuyoshi Nakada)

hash.c: fix float hash

- hash.c (rb_any_hash): fix Float hash. rb_dbl_hash() returns a Fixnum, but not a long. [Bug #9381]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@51425 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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Revision 48f9012d - 07/29/2015 05:54 AM - nobu (Nobuyoshi Nakada)

hash.c: fix symbol hash

- hash.c (rb_sym_hash): return same value as rb_any_hash() of Symbol. [Bug #9381]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@51426 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51426 - 07/29/2015 05:54 AM - nobu (Nobuyoshi Nakada)

hash.c: fix symbol hash

- hash.c (rb_sym_hash): return same value as rb_any_hash() of Symbol. [Bug #9381]

Revision 51426 - 07/29/2015 05:54 AM - nobu (Nobuyoshi Nakada)

hash.c: fix symbol hash

- hash.c (rb_sym_hash): return same value as rb_any_hash() of Symbol. [Bug #9381]

Revision 51426 - 07/29/2015 05:54 AM - nobu (Nobuyoshi Nakada)

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Revision 51426 - 07/29/2015 05:54 AM - nobu (Nobuyoshi Nakada)

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Revision 640c135c - 08/14/2015 06:37 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 51423,51425: [Backport #9381]

test_hash.rb: add assertions

```
* test/ruby/test_hash.rb (test_wrapper_of_special_const): test
```

other special objects. [Bug #9381]

* hash.c (rb_any_hash): fix Float hash. rb_dbl_hash() returns a Fixnum, but not a long. [Bug #9381]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@51572 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51572 - 08/14/2015 06:37 AM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 51423,51425: [Backport #9381]

test_hash.rb: add assertions

```
* test/ruby/test_hash.rb (test_wrapper_of_special_const): test
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* hash.c (rb_any_hash): fix Float hash. rb_dbl_hash() returns a Fixnum, but not a long. [Bug #9381]

Revision 170f64d6 - 08/17/2015 08:52 AM - usa (Usaku NAKAMURA)

merge revision(s) 51423,51425: [Backport #9381]

test_hash.rb: add assertions

```
* test/ruby/test_hash.rb (test_wrapper_of_special_const): test
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other special objects. [Bug #9381]

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@51613 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51613 - 08/17/2015 08:52 AM - usa (Usaku NAKAMURA)

merge revision(s) 51423,51425: [Backport #9381]

test_hash.rb: add assertions

```
* test/ruby/test_hash.rb (test_wrapper_of_special_const): test
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other special objects. [Bug #9381]
* hash.c (rb_any_hash): fix Float hash. rb_dbl_hash() returns a Fixnum, but not a long. [Bug #9381]

History

#1 - 01/08/2014 03:38 PM - nobu (Nobuyoshi Nakada)

- Description updated
- Status changed from Open to Assigned
- Assignee set to nobu (Nobuyoshi Nakada)
- Target version set to 2.2.0
- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN to 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED

#2 - 01/08/2014 03:55 PM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset [r44525](#).
Nick, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

object.c: hash value from objid with salt

- hash.c (rb_objid_hash): return hash value from object ID with a salt, extract from rb_any_hash().
- object.c (rb_obj_hash): return same value as rb_any_hash(). fix [r44125](#). [Bug [#9381](#)]

#3 - 02/20/2014 01:09 AM - naruse (Yui NARUSE)

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

#4 - 02/21/2014 06:19 AM - nobu (Nobuyoshi Nakada)

- Description updated

#5 - 07/29/2015 10:39 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: DONE to 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED, 2.2: REQUIRED

I re-fill Backport field for [r51425](#). I'm not sure if this is bugfix or feature change though.

#6 - 08/14/2015 06:37 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED, 2.2: REQUIRED to 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED, 2.2: DONE

I additionally backport [r51425](#) into ruby_2_2 branch at r51572.

#7 - 08/17/2015 08:53 AM - usa (Usaku NAKAMURA)

- Backport changed from 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED, 2.2: DONE to 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: DONE, 2.2: DONE

ruby_2_1 r51613 merged revision(s) 51423,51425.