

Ruby - Bug #12743

throw(false) does not work as expected

09/09/2016 02:25 PM - rhenium (Kazuki Yamaguchi)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 2.4.0dev (2016-09-09 trunk 56124) [x86_64-linux]	Backport: 2.1: UNKNOWN, 2.2: DONE, 2.3: DONE
Description <p>I expect UncaughtThrowError for these examples:</p> <pre>\$ ruby -e'throw false' -e: unexpected throw \$ ruby -e'Fiber.new{throw false}.resume' \$ ruby -e'Thread.new{throw false}.join' -e:1: [BUG] thread_join: THROW_DATA should not reach here. ruby 2.4.0dev (2016-09-09 trunk 56124) [x86_64-linux]</pre> <p>-- Control frame information ----- <snip></p> <p>The cause is that Kernel#throw incorrectly finds a tag that is not created by Kernel#catch, because TH_PUSH_TAG() initializes rb_vm_tag::tag with 0.</p> <p>The attached patch seems to fix the issue, by making TH_PUSH_TAG() initialize with Qundef that should never appear in Ruby code.</p>		

Associated revisions

Revision ed5a926b1320983e6802d17d6bc7c2d6c3f52989 - 09/26/2016 06:43 AM - rhenium (Kazuki Yamaguchi)

eval_intern.h: make TH_PUSH_TAG() initialize rb_vm_tag::tag with Qundef

- eval_intern.h (TH_PUSH_TAG): Initialize struct rb_vm_tag::tag with Qundef rather than 0 which is equal to Qfalse. Since Kernel#throw(obj) searches a tag with rb_vm_tag::tag == obj, throw(false) can accidentally find an unrelated tag which is not created by Kernel#catch. [ruby-core:77229] [Bug #12743]
- test/ruby/test_exception.rb (test_throw_false): Add a test case for this.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@56252 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision ed5a926b - 09/26/2016 06:43 AM - rhenium (Kazuki Yamaguchi)

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Revision 91a32fc030d6b74d5b43cabe48f29ebf1eec3331 - 09/26/2016 07:33 AM - nobu (Nobuyoshi Nakada)

test_exception.rb: another assertion

- test/ruby/test_exception.rb (test_throw_false): test the thrown tag. [Bug #12743]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@56254 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 91a32fc0 - 09/26/2016 07:33 AM - nobu (Nobuyoshi Nakada)

test_exception.rb: another assertion

- test/ruby/test_exception.rb (test_throw_false): test the thrown tag. [Bug #12743]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@56254 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision ded40392317c885439232de5f7da3519ebce4ee5 - 10/17/2016 06:07 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 56252,56254: [Backport #12743]

```
* eval_intern.h (TH_PUSH_TAG): Initialize struct rb_vm_tag::tag with
  Qundef rather than 0 which is equal to Qfalse. Since Kernel#throw(obj)
  searches a tag with rb_vm_tag::tag == obj, throw(false) can
  accidentally find an unrelated tag which is not created by
  Kernel#catch. [ruby-core:77229] [Bug #12743]
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```
* test/ruby/test_exception.rb (test_throw_false): Add a test case for
  this.
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_3@56441 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision ded40392 - 10/17/2016 06:07 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 56252,56254: [Backport #12743]

```
* eval_intern.h (TH_PUSH_TAG): Initialize struct rb_vm_tag::tag with
  Qundef rather than 0 which is equal to Qfalse. Since Kernel#throw(obj)
  searches a tag with rb_vm_tag::tag == obj, throw(false) can
  accidentally find an unrelated tag which is not created by
  Kernel#catch. [ruby-core:77229] [Bug #12743]
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* test/ruby/test_exception.rb (test_throw_false): Add a test case for
  this.
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_3@56441 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 04b031656add2a8c9f7f2136e4fc7fc16c9ac901 - 10/27/2016 07:48 AM - U.Nakamura

merge revision(s) 56252,56254: [Backport #12743]

```
* eval_intern.h (TH_PUSH_TAG): Initialize struct rb_vm_tag::tag with
  Qundef rather than 0 which is equal to Qfalse. Since Kernel#throw(obj)
  searches a tag with rb_vm_tag::tag == obj, throw(false) can
  accidentally find an unrelated tag which is not created by
  Kernel#catch. [ruby-core:77229] [Bug #12743]
```

```
* test/ruby/test_exception.rb (test_throw_false): Add a test case for
  this.
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@56505 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 04b03165 - 10/27/2016 07:48 AM - U.Nakamura

merge revision(s) 56252,56254: [Backport #12743]

```
* eval_intern.h (TH_PUSH_TAG): Initialize struct rb_vm_tag::tag with
  Qundef rather than 0 which is equal to Qfalse. Since Kernel#throw(obj)
  searches a tag with rb_vm_tag::tag == obj, throw(false) can
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* test/ruby/test_exception.rb (test_throw_false): Add a test case for
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@56505 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 09/26/2016 06:43 AM - Anonymous

- Status changed from Open to Closed

Applied in changeset r56252.

eval_intern.h: make TH_PUSH_TAG() initialize rb_vm_tag::tag with Qundef

- eval_intern.h (TH_PUSH_TAG): Initialize struct rb_vm_tag::tag with Qundef rather than 0 which is equal to Qfalse. Since Kernel#throw(obj) searches a tag with rb_vm_tag::tag == obj, throw(false) can accidentally find an unrelated tag which is not created by Kernel#catch. [\[ruby-core:77229\]](#) [Bug [#12743](#)]
- test/ruby/test_exception.rb (test_throw_false): Add a test case for this.

#2 - 09/26/2016 01:36 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN to 2.1: UNKNOWN, 2.2: REQUIRED, 2.3: REQUIRED

#3 - 10/17/2016 06:07 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.1: UNKNOWN, 2.2: REQUIRED, 2.3: REQUIRED to 2.1: UNKNOWN, 2.2: REQUIRED, 2.3: DONE

ruby_2_3 r56441 merged revision(s) 56252,56254.

#4 - 10/27/2016 07:48 AM - usa (Usaku NAKAMURA)

- Backport changed from 2.1: UNKNOWN, 2.2: REQUIRED, 2.3: DONE to 2.1: UNKNOWN, 2.2: DONE, 2.3: DONE

ruby_2_2 r56505 merged revision(s) 56252,56254.

Files

0001-eval_intern.h-make-TH_PUSH_TAG-initialize-rb_vm_tag-patch	1.53 KB	09/09/2016	rhenium (Kazuki Yamaguchi)
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