Ruby trunk - Bug #5768

TestRequire#test_race_exception□□□□□□□□□□□□□

12/17/2011 10:48 AM - naruse (Yui NARUSE)

Status:	Closed		
Priority:	Normal		
Assignee:	kosaki (Motohiro KOSAKI)		
Target version:	2.0.0		
ruby -v:	-	**Backport:**	2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN

Description

□□require□□□□□□□□□□□□□□□□
□□□

diff --git a/test/ruby/test_require.rb b/test/ruby/test_require.rb
index 9186a6f..262a5ef 100644
--- a/test/ruby/test_require.rb
+++ b/test/ruby/test_require.rb
@@ -352,7 +352,7 @@ class TestRequire < Test::Unit::TestCase
TestRequire.scratch << :pre
Thread.pass until t2 = TestRequire.scratch[1]
Thread.pass until t2.stop?
-open(**FILE**, "w") {|f| f.puts "TestRequire.scratch << :post"}
+open(**FILE**, "w") {|f| f.puts "TestRequire.scratch << :post"; f.puts "t1,t2=TestRequire.scratch[1, 2];if Thread.current == t2; Thread.pass until t1.stopped?; end"}
raise "con1"
EOS
tmp.close
@@ -364,6 +364,7 @@ raise "con1"
t2_res = nil

```
t1 = Thread.new do
```

- [redacted]

  begin
  require(path)
  rescue RuntimeError
  @@ -389,8 +390,8 @@ raise "con1"
  assert_nothing_raised(ThreadError, bug5754) {t1.join}
  assert_nothing_raised(ThreadError, bug5754) {t2.join}

- assert_equal(true, (t1_res ^ t2_res), bug5754)
- assert_equal([:pre, t2, :post, :t2, :t1], scratch, bug5754)
- assert_equal(true, (t1_res ^ t2_res), bug5754 + " t1:#{t1_res} t2:#{t2_res}")
- assert_equal([:pre, t1, t2, :post, :t2, :t1], scratch, bug5754)
  ensure
  tmp.close(true) if tmp
  end

Related issues:

Related to Ruby trunk - Bug #5754: Double require bug in 1.9.3	**Closed**	**12/13/2011**

Associated revisions

Revision 82ab1e18 - 12/30/2011 10:25 PM - naruse (Yui NARUSE)

- thread.c (rb_barrier_waiting): save the number of waiting threads in RBASIC()->flags. [ruby-dev:45002] [Bug #5768]
- thread.c (rb_barrier_wait): increment and decrement around rb_mutex_lock, and use rb_barrier_waiting().
- thread.c (rb_barrier_release): use rb_barrier_waiting().
- thread.c (rb_barrier_destroy): ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@34163 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 34163 - 12/30/2011 10:25 PM - naruse (Yui NARUSE)

- thread.c (rb_barrier_waiting): save the number of waiting threads in RBASIC()->flags. [ruby-dev:45002] [Bug #5768]
- thread.c (rb_barrier_wait): increment and decrement around rb_mutex_lock, and use rb_barrier_waiting().
- thread.c (rb_barrier_release): use rb_barrier_waiting().
- thread.c (rb_barrier_destroy): ditto.

Revision 34163 - 12/30/2011 10:25 PM - naruse (Yui NARUSE)

- thread.c (rb_barrier_waiting): save the number of waiting threads in RBASIC()->flags. [ruby-dev:45002] [Bug #5768]
- thread.c (rb_barrier_wait): increment and decrement around rb_mutex_lock, and use rb_barrier_waiting().

- thread.c (rb_barrier_release): use rb_barrier_waiting().
- thread.c (rb_barrier_destroy): ditto.

Revision 34163 - 12/30/2011 10:25 PM - naruse (Yui NARUSE)

- thread.c (rb_barrier_waiting): save the number of waiting threads in RBASIC()->flags. [ruby-dev:45002] [Bug #5768]
- thread.c (rb_barrier_wait): increment and decrement around rb_mutex_lock, and use rb_barrier_waiting().
- thread.c (rb_barrier_release): use rb_barrier_waiting().
- thread.c (rb_barrier_destroy): ditto.

Revision 34163 - 12/30/2011 10:25 PM - naruse (Yui NARUSE)

- thread.c (rb_barrier_waiting): save the number of waiting threads in RBASIC()->flags. [ruby-dev:45002] [Bug #5768]
- thread.c (rb_barrier_wait): increment and decrement around rb_mutex_lock, and use rb_barrier_waiting().
- thread.c (rb_barrier_release): use rb_barrier_waiting().
- thread.c (rb_barrier_destroy): ditto.

Revision 34163 - 12/30/2011 10:25 PM - naruse (Yui NARUSE)

- thread.c (rb_barrier_waiting): save the number of waiting threads in RBASIC()->flags. [ruby-dev:45002] [Bug #5768]
- thread.c (rb_barrier_wait): increment and decrement around rb_mutex_lock, and use rb_barrier_waiting().
- thread.c (rb_barrier_release): use rb_barrier_waiting().
- thread.c (rb_barrier_destroy): ditto.

History

#1 - 12/19/2011 10:58 AM - nagachika (Tomoyuki Chikanaga)

bug5754 .rb □□□ t2 □ Thread.current □□□□□□□□□□□□□□□□scratch □□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□

diff --git a/test/ruby/test_require.rb b/test/ruby/test_require.rb
index 9186a6f..02f7efe 100644
--- a/test/ruby/test_require.rb
+++ b/test/ruby/test_require.rb
@@ -349,10 +349,11 @@ class TestRequire < Test::Unit::TestCase
tmp = Tempfile.new(%w"bug5754 .rb")
path = tmp.path
tmp.print <<-EOS
+Thread.pass until TestRequire.scratch[1]
TestRequire.scratch << :pre
-Thread.pass until t2 = TestRequire.scratch[1]
+t2 = TestRequire.scratch[0,2].reject{|t| t == Thread.current}[0]
Thread.pass until t2.stop?
-open(**FILE**, "w") {|f| f.puts "TestRequire.scratch << :post"}
+open(**FILE**, "w") {|f| f.puts "TestRequire.scratch << :post"; f.puts "t1,t2=TestRequire.scratch[0, 2];if Thread.current == t2; Thread.pass until t1.stopped?; end"}
raise "con1"
EOS
tmp.close
@@ -364,6 +365,8 @@ raise "con1"
t2_res = nil

```
t1 = Thread.new do
```

- Thread.pass until t1
- [redacted]

  begin
  require(path)
  rescue RuntimeError
  @@ -376,6 +379,7 @@ raise "con1"
  end

  t2 = Thread.new do

- [redacted]

Thread.pass until scratch[0]
begin
scratch << t2
@@ -389,8 +393,8 @@ raise "con1"
assert_nothing_raised(ThreadError, bug5754) {t1.join}
assert_nothing_raised(ThreadError, bug5754) {t2.join}

- assert_equal(true, (t1_res ^ t2_res), bug5754)

- assert_equal([:pre, t2, :post, :t2, :t1], scratch, bug5754)

- assert_equal(true, (t1_res ^ t2_res), bug5754 + " t1:#{t1_res} t2:#{t2_res}")

- assert_equal([t1, t2, :pre, :post, :t2, :t1], scratch, bug5754)
ensure
tmp.close(true) if tmp
end

□□□□□ test_race_exception □□□□□□□□□□□□ ThreadError □(require □□□□□)□□□□□□□□□□□□□□

1) Failure:
test_race_exception(TestRequire) [/home/nagachika/opt/ruby-trunk/src/ruby/test/ruby/test_require.rb:386]:
.
Exception raised:
<#>.

□□□□□□□□□□

#2 - 12/20/2011 01:43 PM - naruse (Yui NARUSE)

□□□□□□□□□□□ lock □□□□□□ rb_barrier_release/rb_barrier_destroy □ rb_mutex_lock □□□□□□□□□□□□□□□□□□□□□□□□□□
□□□ rb_mutex_unlock □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ mutex->cond_waiting □□□□□□□□□□□□□□
□□□ GVL_UNLOCK_BEGIN() □□

```
diff --git a/test/ruby/test_require.rb b/test/ruby/test_require.rb
index 9186a6f..f1d8d12 100644
--- a/test/ruby/test_require.rb
+++ b/test/ruby/test_require.rb
@@ -350,9 +350,18 @@ class TestRequire < Test::Unit::TestCase
path = tmp.path
tmp.print <<-EOS
TestRequire.scratch << :pre
-Thread.pass until t2 = TestRequire.scratch[1]
+TestRequire.scratch << Thread.current
+Thread.pass until t2 = TestRequire.scratch[2]
Thread.pass until t2.stop?
-open(FILE, "w") {|f| f.puts "TestRequire.scratch << :post"}
```

+open(**FILE**, "w") do |f|

- f.puts "t1, t2 = TestRequire.scratch[1, 2]"
- f.puts "if Thread.current == t2"
- f.puts " TestRequire.scratch << :post"
- f.puts " until t1.stop?"
- f.puts "   Thread.pass"
- f.puts " end"

- f.puts "end"
  +end
  raise "con1"
  EOS
  tmp.close
  @@ -368,7 +377,6 @@ raise "con1"
  require(path)
  rescue RuntimeError

end

t1_res = require(path)

Thread.pass until fin
@@ -376,7 +384,7 @@ raise "con1"
end

t2 = Thread.new do

- [redacted]

- [redacted]

begin
scratch << t2
t2_res = require(path)
@@ -389,8 +397,8 @@ raise "con1"
assert_nothing_raised(ThreadError, bug5754) {t1.join}
assert_nothing_raised(ThreadError, bug5754) {t2.join}

- assert_equal(true, (t1_res ^ t2_res), bug5754)

- assert_equal([:pre, t2, :post, :t2, :t1], scratch, bug5754)

- assert_equal(true, (t1_res ^ t2_res), bug5754 + " t1:#{t1_res} t2:#{t2_res}")

- assert_equal([:pre, t1, t2, :post, :t2, :t1], scratch, bug5754)
  ensure
  tmp.close(true) if tmp
  end
  diff --git a/thread.c b/thread.c
  index ced10c2..c46653b 100644
  --- a/thread.c
  +++ b/thread.c
  @@ -3409,7 +3409,6 @@ lock_func(rb_thread_t *th, rb_mutex_t *mutex, int timeout_ms)
  int interrupted = 0;
  int err = 0;

- mutex->cond_waiting++;
  for (;;) {
  if (!mutex->th) {
  mutex->th = th;
  @@ -3438,7 +3437,6 @@ lock_func(rb_thread_t *th, rb_mutex_t *mutex, int timeout_ms)
  err = 0;
  }
  }

- mutex->cond_waiting--;

return interrupted;
}

@@ -3493,10 +3491,12 @@ rb_mutex_lock(VALUE self)
if (vm_living_thread_num(th->vm) == th->vm->sleeper) {
timeout_ms = 100;
}

- [redacted]

```
GVL_UNLOCK_BEGIN();
interrupted = lock_func(th, mutex, timeout_ms);
native_mutex_unlock(&mutex->lock);
GVL_UNLOCK_END();
```

- [redacted]

```
reset_unblock_function(th, &oldubf);
```

@@ -3727,9 +3727,11 @@ rb_barrier_release(VALUE self)
{
VALUE mutex = GetBarrierPtr(self);
rb_mutex_t *m;

- rb_mutex_unlock(mutex);
- int waiting; GetMutexPtr(mutex, m);
- return m->cond_waiting > 0 ? Qtrue : Qfalse;
- waiting = m->cond_waiting;
- rb_mutex_unlock(mutex);
- return waiting > 0 ? Qtrue : Qfalse; }

/*
@@ -3740,10 +3742,12 @@ rb_barrier_destroy(VALUE self)
{
VALUE mutex = GetBarrierPtr(self);
rb_mutex_t *m;

- int waiting; DATA_PTR(self) = 0;
- rb_mutex_unlock(mutex); GetMutexPtr(mutex, m);
- return m->cond_waiting > 0 ? Qtrue : Qfalse;
- waiting = m->cond_waiting;
- rb_mutex_unlock(mutex);
- return waiting > 0 ? Qtrue : Qfalse; }

int

#3 - 12/20/2011 02:10 PM - kosaki (Motohiro KOSAKI)

- Category set to core

- Assignee changed from nobu (Nobuyoshi Nakada) to kosaki (Motohiro KOSAKI)

- Target version set to 2.0.0

lock_func□rb_mutex_lock□□□□□□□□□□□□□□□□□□□□□□□□□□

#4 - 12/20/2011 03:59 PM - nobu (Nobuyoshi Nakada)

- ruby -v changed from ruby 2.0.0dev (2011-12-16 trunk 34058) [x86_64-freebsd9.0] to -

□□□□□□

(11/12/20 13:43), Yui NARUSE wrote:

> □□□□□□□□□□□ lock □□□□□□ rb_barrier_release/rb_barrier_destroy □ rb_mutex_lock □□□□□□□□□□□□□□□□□□□□□□□□□□□
> □□□ rb_mutex_unlock □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ mutex->cond_waiting □□□□□□□□□□□□□□□□
> □□□ GVL_UNLOCK_BEGIN() □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□rb_mutex_lock□GVL□□□□□□□□□□□□□□□□□□□□□□□□□
rb_barrier_release/rb_barrier_destroy□□□□□□□□□mutex□□□□□
□□□□□□□□□□□□□□□□□□Barrier□□□□□□□□□□□□□□□□
□□

```
diff --git a/test/ruby/test_require.rb b/test/ruby/test_require.rb
index 9186a6f..f1d8d12 100644
--- a/test/ruby/test_require.rb
+++ b/test/ruby/test_require.rb
@@ -350,9 +350,18 @@ class TestRequire < Test::Unit::TestCase
path = tmp.path
tmp.print <<-EOS
TestRequire.scratch << :pre
-Thread.pass until t2 = TestRequire.scratch[1]
+TestRequire.scratch << Thread.current
+Thread.pass until t2 = TestRequire.scratch[2]
Thread.pass until t2.stop?
-open(FILE, "w") {|f| f.puts "TestRequire.scratch << :post"}
+open(FILE, "w") do |f|
```

- f.puts "t1, t2 = TestRequire.scratch[1, 2]"
- f.puts "if Thread.current == t2"
- f.puts " TestRequire.scratch << :post"
- f.puts " until t1.stop?"
- f.puts "   Thread.pass"
- f.puts " end"
- f.puts "end" +end raise "con1"

□□□□□□t2□□□□□□□□□□□□□□□□□□□□□□□□require□□□
□□□□□□□□t1,t2□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□

--
--- □□□□Bug□□□□
--- □□□□□Bug□□□□□
□□ □□

#5 - 12/20/2011 04:55 PM - naruse (Yui NARUSE)

Nobuyoshi Nakada wrote:

> rb_barrier_release/rb_barrier_destroy□□□□□□□□□□mutex□□□□□
> □□□□□□□□□□□□□□□□□□□Barrier□□□□□□□□□□□□□□□□□□
> □□

□□□□□□□□□□□□□

□□□□□□□□□□□t1 □ t2.stop? == true □□□□□□□□□□□□□□□ require □□□□□□□
□□□□□□□□t2 □ rb_barrier_wait □□ rb_mutex_lock □□ native_cond_wait □□□□□□□□□□□□□□□□
□□□□□□□ require □□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□mutex->cond_waiting++ □□□□□□□□□□□□□□□□□□□

□□□t2 □□□□□ rb_mutex_lock □□□□
thread.c □ 3481□□□ th->status = THREAD_STOPPED_FOREVER □□□□□□□□□□□□
□□□□□□Thread#stop?□true□□□□□□□□□□□□□□□□ GVL □□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□10□□□□□□□□GVL_UNLOCK_BEGIN();□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ STOP □□□□□□□□
t1 □□□□□□□□□□□□□□□□□ require □□□□load_unlock □□□□□□□□
□□□□□□□□□□□□□□□□□□
□□□ rb_barrier_release □□□□□□□ 0 □□□□mutex->cond_waiting □□□ Qfalse □□□□□□□
loading_tbl □□□□□□□□□□□□□□□□□□□□□□
□□□t1 □□□□□□□□□ lock_func□□□□□□□□mutex->cond_waiting++□□□□
30□□□□□□□□native_cond_wait□□

□□□□□□□GVL_UNLOCK_BEGIN□□□mutex->cond_waiting++□□□□□□□□□□□□□□□□□□
mutex->cond_waiting□□□□□□0□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□load.c □ load_unlock □ rb_barrier_destroy/rb_barrier_destroy □□st_delete □□□□□□□□□□□□□□□

```
diff --git a/test/ruby/test_require.rb b/test/ruby/test_require.rb
index 9186a6f..f1d8d12 100644
--- a/test/ruby/test_require.rb
+++ b/test/ruby/test_require.rb
@@ -350,9 +350,18 @@ class TestRequire < Test::Unit::TestCase
path = tmp.path
tmp.print <<-EOS
TestRequire.scratch << :pre
-Thread.pass until t2 = TestRequire.scratch[1]
+TestRequire.scratch << Thread.current
+Thread.pass until t2 = TestRequire.scratch[2]
Thread.pass until t2.stop?
-open(FILE, "w") {|f| f.puts "TestRequire.scratch << :post"}
+open(FILE, "w") do |f|
+  f.puts "t1, t2 = TestRequire.scratch[1, 2]"
+  f.puts "if Thread.current == t2"
+  f.puts "  TestRequire.scratch << :post"
+  f.puts "  until t1.stop?"
+  f.puts "    Thread.pass"
+  f.puts "  end"
+  f.puts "end" +end raise "con1"
```

□□□□□□□t2□□□□□□□□□□□□□□□□□□□□□□□□□□□□require□□□
□□□□□□□□□t1,t2□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□

□□□□□□□□□□□□ :post □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

#6 - 01/05/2012 10:58 AM - naruse (Yui NARUSE)

[illegible] r34163 [illegible] mutex->cond_waiting [illegible]RBASIC()->flags [illegible]
[illegible]
[illegible]

#7 - 11/26/2012 08:05 PM - kosaki (Motohiro KOSAKI)

- Status changed from Assigned to Closed

[illegible]close