Ruby master - Bug #5993

Thread.new{ Fiber.new { Thread.exit }.resume }.join で例外

02/10/2012 01:59 AM - nagachika (Tomoyuki Chikanaga)

Status: Closed
Priority: Normal
Assignee: nagachika (Tomoyuki Chikanaga)
Target version: 2.0.0
ruby -v: ruby 2.0.0dev (2012-02-09 trunk 34514) [x86_64-darwin10.8.0]

Description
以下の通り Fiber 内で Thread.exit するとメッセージが空の RuntimeError が発生します。
Thread.new{ Fiber.new { Thread.exit }.resume }.join #=> RuntimeError:
rb_fiber_start() で Thread.exit 時の TAG_FATAL での TAG_JUMP を想定していないためと思います。とりあえず以下のようにすると例外にならなくなります。

あと th->errinfo は空を Qnil としているのに th->thrown_errinfo は 0 (Qfalse)を空であることを示すのに使っているので、その食い違いで thrown_errinfo に Qnil を入れてしまっていた（rb_vm_make_jump_tag_but_local_jump() の結果が Qnil の時）のが原因のようなので、そちらをなんとかすべきかもしれません。全体的に thrown_errinfo も空を意味するために Qnil を使うようにそろえるとか?

--- a/cont.c
+++ b/cont.c
@@ -1152,6 +1152,9 @@ rb_fiber_start(void)
        if (state == TAG_RAISE) {
            th->thrown_errinfo = th->errinfo;
        }
-else if (state == TAG_FATAL && th->errinfo == INT2FIX(TAG_FATAL)) {
+else if (state == TAG_FATAL) {
-        /* terminating */
+        /* terminating */
+        else {
+            th->thrown_errinfo = rb_vm_make_jump_tag_but_local_jump(state, th->errinfo);

Related issues:
Related to Ruby master - Bug #6575: Thread#kill sets rb_errinfo() to Fixnum 8...

Associated revisions

Revision 54619f8d - 12/15/2012 03:46 PM - nagachika (Tomoyuki Chikanaga)

- cont.c (rb_fiber_start): don't enqueue Qnil to async_errinfo_queue.
  rb_vm_make_jump_tag_but_local_jump() could return Qnil (ex. when finished by Thread.exit). [ruby-dev:45218] [Bug #5993]

- test/ruby/test_fiber.rb (test_exit_in_fiber): add test for it.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38414 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 38414 - 12/15/2012 03:46 PM - nagachika (Tomoyuki Chikanaga)

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Revision 6a35c26b - 12/22/2012 06:45 AM - nagachika (Tomoyuki Chikanaga)

- cont.c (rb_fiber_start): in case of jump with TAG_FATAL, 
  enqueue error into async_errinfo_queue, because you cannot call 
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- thread.c (rb_threadptr_execute_interrupts): now INT2FIX(TAG_FATAL) 
  can be popped from async_errinfo_queue.

- vm.c (rb_vm_make_jump_tag_but_local_jump): revert r38441.

09/07/2021

2/6
ruby vm_make_jump_tag_but_local_jump() shouldn't return exception in case of state == TAG_FATAL.

- test/ruby/test_fiber.rb (test_exit_in_fiber): fix a test to illuminate Thread.exit should terminate current Thread.

Revision 38550 - 12/22/2012 06:45 AM - nagachika (Tomoyuki Chikanaga)

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History

#1 - 03/18/2012 06:46 PM - shyouhei (Shyouhei Urabe)
  - Status changed from Open to Assigned

#2 - 04/27/2012 11:41 PM - ko1 (Koichi Sasada)
  ちょっと思い出せないんですが(多分、その辺整理すると思う)
  近永さんのことだから信じられると思います。
  というわけで、テスト付きでコミットいただければ。

#3 - 04/29/2012 01:02 AM - nagachika (Tomoyuki Chikanaga)
  長らく放置しててすみません。
先のパッチをテストしていて、これだけでは不十分で確か Fiber 内で fatal() を呼んだりした時の挙動に問題があったためもう少し考えないといけないなぁ、というところで止まってたと思います。

ちょっとどうやら作業していたブランチを消してしまったみたいで、すぐには具体的な内容を思い出せないのですが、少し調べてみてこの修正とは別の問題として切り分けられそうであれば別チケットを作ろうかと思います。

#4 - 12/16/2012 12:46 AM - nagachika (Tomoyuki Chikanaga)
- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r38414.
Tomoyuki, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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#5 - 12/16/2012 02:02 AM - nagachika (Tomoyuki Chikanaga)
Fiber::rb_fatal() が statistics http://bugs.ruby-lang.org/issues/7570

#6 - 12/18/2012 11:19 PM - nagachika (Tomoyuki Chikanaga)
- Status changed from Closed to Open

- Status changed from Closed to Open

#7 - 12/19/2012 02:31 AM - nagachika (Tomoyuki Chikanaga)
File thread_exit_in_fiber.patch added
- Status changed from Open to Assigned

- Status changed from Assigned to Closed

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Files

<table>
<thead>
<tr>
<th>File Name</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>thread_exit_in_fiber.patch</td>
<td>1.93 KB</td>
<td>12/19/2012</td>
<td>nagachika (Tomoyuki Chikanaga)</td>
</tr>
</tbody>
</table>