Tracepoint API: B_RETURN_EVENT not triggered when "next" used

I'm using the Tracepoint API in my gem and I notice that when the keyword next is used inside a block, a block return event (B_RETURN_EVENT) is not triggered. For example, I would expect the same number of B_CALL_EVENT and B_RETURN_EVENT in the piece of code:

```ruby
traceBlocks = TracePoint.new(:b_call, :b_return) do |tp|
  p "#{tp.event == :b_call ? 'Block called' : 'Block returned'}"
end.enable do
  3.times do
    next
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end
```

but instead there are 4 B_CALL_EVENT and 1 B_RETURN_EVENT. As I understand it, "next" causes the block to exit immediately, returning control to the iterator, which may invoke the block again, so I would say a block return event should be triggered.

Thanks a lot.

Associated revisions

Revision f41b284f - 06/14/2013 09:54 AM - ko1 (Koichi Sasada)

- compile.c (rb_iseq_compile_node): fix location of a 'trace' instruction (b_return event). [ruby-core:55305] ruby-trunk - Bug #8489
- test/ruby/test_settracefunc.rb: add a test.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@41300 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 41300 - 06/14/2013 09:54 AM - ko1 (Koichi Sasada)

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Revision 113d3599 - 06/15/2013 04:14 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 41300: [Backport #8489]

* compile.c (rb_iseq_compile_node): fix location of a 'trace' instruction (b_return event).
  [ruby-core:55305] [ruby-trunk - Bug #8489]
  (need a backport to 2.0.0?)

* test/ruby/test_settracefunc.rb: add a test.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@41319 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 41319 - 06/15/2013 04:14 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 41300: [Backport #8489]

* compile.c (rb_iseq_compile_node): fix location of a 'trace' instruction (b_return event).
  [ruby-core:55305] [ruby-trunk - Bug #8489]
  (need a backport to 2.0.0?)

* test/ruby/test_settracefunc.rb: add a test.

History

#1 - 06/14/2013 05:55 PM - deivid (David Rodriguez)
This is the "no replies after 10 days reminder".
If this is not a priority right now, I can try have a look at this myself (not sure how it will go through...).
Thanks again.

#2 - 06/14/2013 06:55 PM - ko1 (Koichi Sasada)
- Status changed from Open to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r41300.
David, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

#3 - 06/14/2013 06:59 PM - ko1 (Koichi Sasada)
Thank you for your report.
I fixed it. Could you check it?

(2013/06/14 17:55), deivid (David Rodríguez) wrote:

Issue #8489 has been updated by deivid (David Rodríguez).
This is the "no replies after 10 days reminder".
If this is not a priority right now, I can try have a look at this myself (not sure how it will go through...).

Thanks again.

Bug #8489: Tracepoint API: _B_RETURN_EVENT not triggered when "next" used
https://bugs.ruby-lang.org/issues/8489#change-39925

Author: deivid (David Rodriguez)
Status: Open
Priority: Normal
Assignee:
Category:
I'm using the Tracepoint API in my gem and I notice that when the keyword next is used inside a block, a block return event (B_RETURN_EVENT) is not triggered. For example, I would expect the same number of B_CALL_EVENT and B_RETURN_EVENT in the piece of code:

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but instead there are 4 B_CALL_EVENT and 1 B_RETURN_EVENT. As I understand it, "next" causes the block to exit immediately, returning control to the iterator, which may invoke the block again, so I would say a block return event should be triggered.

Thanks a lot.

--
// SASADA Koichi at atdot dot net

#4 - 06/14/2013 09:54 PM - nagachika (Tomoyuki Chikanaga)
  - Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN to 1.9.3: UNKNOWN, 2.0.0: REQUIRED

#5 - 06/15/2013 12:41 AM - deivid (David Rodríguez)
  Just tried it ko1 (Koichi Sasada), it works perfectly!
  nagachika (Tomoyuki Chikanaga), forgive my ignorance but "Backport to 2.0.0" means the patch will be released with the next patchlevel release?
  Thanks a lot!!

#6 - 06/15/2013 09:53 AM - zzak (Zachary Scott)
  On Sat, Jun 15, 2013 at 12:41 AM, deivid (David Rodríguez)
  deivid.rodriguez@gmail.com wrote:
    nagachika (Tomoyuki Chikanaga), forgive my ignorance but "Backport to 2.0.0" means the patch will be released with the next patchlevel release?

    Yes, nagachika-san is the 2.0.0 release manager, he will backport this
    for the next patchlevel release of ruby 2.0.0 series.

#7 - 06/15/2013 10:31 AM - deivid (David Rodríguez)
  Sweet, thanks a lot guys!

#8 - 06/16/2013 01:14 AM - nagachika (Tomoyuki Chikanaga)
  - Tracker changed from Bug to Backport
  - Project changed from Ruby master to Backport200
  - Status changed from Closed to Assigned
  - Assignee set to nagachika (Tomoyuki Chikanaga)

  Hello, deivid.
  Never mind. It's my work to check if a changeset need to backport :)

  And I'm going to backport r41300.

#9 - 06/16/2013 01:14 AM - nagachika (Tomoyuki Chikanaga)
  - Status changed from Assigned to Closed

  This issue was solved with changeset r41319.
  David, thank you for reporting this issue.
  Your contribution to Ruby is greatly appreciated.
merge revision(s) 41300: [Backport #8489]

* compile.c (rb_iseq_compile_node): fix location of a `trace'
  instruction (b_return event).
  [ruby-core:55305] [ruby-trunk - Bug #8489]
  (need a backport to 2.0.0?)

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