

Ruby master - Bug #15385

Ruby process hang in ensure

12/06/2018 01:40 AM - pawelpacana (Paweł Pacana)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.5.3p105 (2018-10-18 revision 65156) [x86_64-darwin18]	Backport: 2.4: WONTFIX, 2.5: DONE
Description <p>While playing with mutation testing of my code I've found a weird mutation that hangs Ruby process. The isolated code which triggers this freeze is:</p> <pre>require 'timeout' puts Process.pid def raise_before_returning raise [] end def doh value = raise_before_returning ensure # p value # <-- that unblocks it value if nil end Timeout.timeout(3) do doh end</pre> <ol style="list-style-type: none">1. Timeout is unnecessary and was added to illustrate that it has no effect to interrupt hanged process.2. Process.pid is printed for convenience to kill hanged process.3. Printing value in ensure changes behavior, there is no hang when encountering value if nil below. <p>I've also checked ruby 2.6.0preview3 (2018-11-06 trunk 65578) [x86_64-darwin18] and the problem persists.</p>	
Related issues:	
Related to Ruby master - Bug #14897: Unexpected behavior of `if` in specific ...	Closed

Associated revisions

Revision 66326 - 12/11/2018 04:14 AM - nobu (Nobuyoshi Nakada)

Fix infinite loop by ensure

- compile.c (iseq_insert_nop_between_end_and_cont): insert nop so that the end of rescue and continuing points are not same, to get rid of infinite loop. [Bug #15385]

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Revision 66649 - 12/30/2018 06:09 AM - k0kubun (Takashi Kokubun)

test_optimization.rb: increase timeout for RubyCI

<https://rubyci.org/logs/rubyci.s3.amazonaws.com/opensuseleap/ruby-trunk/log/20181230T040002Z.fail.html.gz>

Revision 67702 - 04/30/2019 12:40 PM - usa (Usaku NAKAMURA)

merge revision(s) 66326,66649: [Backport #15385]

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Revision 67708 - 05/02/2019 09:16 PM - usa (Usaku NAKAMURA)

merge revision(s) 66324: [Backport #15385]

Modify `insn list` only when compiling

History

#1 - 12/06/2018 01:43 AM - pawelpacana (Pawel Pacana)

- File `reproduce.rb` added

#2 - 12/06/2018 05:25 AM - ujihisa (Tatsuhiko Ujihisa)

This reproduces even without timeout library.

```
def doh
  raise
ensure
  123 if false
end
```

doh

looks like this is because the optimizer removed `if false` or `if nil` without adding `iseq`.

#3 - 12/07/2018 07:33 PM - pawelpacana (Pawel Pacana)

ujihisa (Tatsuhiko Ujihisa) wrote:

looks like this is because the optimizer removed `if false` or `if nil` without adding `iseq`.

Could it be related then to <https://bugs.ruby-lang.org/issues/14959#note-7> and <https://bugs.ruby-lang.org/issues/15392> then?

#4 - 12/10/2018 12:25 AM - shyouhei (Shyouhei Urabe)

- Related to Bug #14897: Unexpected behavior of ``if`` in specific code added

#5 - 12/11/2018 04:14 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [trunk|r66326](#).

Fix infinite loop by ensure

- compile.c (iseq_insert_nop_between_end_and_cont): insert nop so that the end of rescue and continuing points are not same, to get rid of infinite loop. [Bug #15385]

#6 - 12/11/2018 11:53 AM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.4: UNKNOWN, 2.5: UNKNOWN to 2.4: REQUIRED, 2.5: REQUIRED

I didn't confirm this can be reproduced on `ruby_2_4` too.
After a quick code reading, I think it might be.

#7 - 01/14/2019 11:40 AM - nagachika (Tomoyuki Chikanaga)

Memo: r61591, r61592, r66324 are related.

#8 - 04/30/2019 12:43 PM - usa (Usaku NAKAMURA)

- Backport changed from 2.4: REQUIRED, 2.5: REQUIRED to 2.4: WONTFIX, 2.5: DONE

Files

reproduce.rb	216 Bytes	12/06/2018	pawelpacana (Paweł Pacana)
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