

Ruby - Bug #9940

Unexpected throw from TracePoint hooks with recursive checking

06/13/2014 08:46 AM - ko1 (Koichi Sasada)

Status:	Closed	
Priority:	Normal	
Assignee:	ko1 (Koichi Sasada)	
Target version:	2.2.0	
ruby -v:	ruby 2.2.0dev (2014-06-13 trunk 46416) [i386-mswin32_110]	Backport: 2.0.0: DONTNEED, 2.1: DONE

Description

Ruby 2.0 2.1 2.2.0

```
stack = []
TracePoint.new(:c_call){|tp|
  mid = tp.method_id
  begin
    p mid
    stack << mid # (*)
  ensure
    stack << mid
  end
}.enable{
  p 1
}
p stack
# Ruby 2.0      => [:p, :p, :hash, :hash, :inspect, :inspect]
# Ruby 2.1, 2.2 => [:p, :p, :hash, :inspect, :inspect]
```

c-call -> :hash

(1) p 1 rb_uninterruptible() (2) rb_uninterruptible() rb_hash_aset() (3) rb_hash() recursive check (4) recursive check rb_hash() -> #hash (5) #hash TracePoint(c_call) (6) TracePoint p 2 (7) (1)~(4) key throw (4) (8) throw TracePoint ensure 1 :hash

TracePoint recursive check

TracePoint s recursive check

2.1 2.0

Associated revisions

Revision ddae6a05d7442f25ac04eb3338ffa8a8b4895d3f - 06/13/2014 08:50 AM - ko1 (Koichi Sasada)

- vm_trace.c: clear and restore recursive checking thread local data to avoid unexpected throw from TracePoint. [Bug #9940]
- test/ruby/test_settracefunc.rb: add a test.
- thread.c: adde
 - rb_threadptr_reset_recursive_data(rb_thread_t *th);
 - rb_threadptr_restore_recursive_data(rb_thread_t *th, VALUE old);
- vm_core.h: ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@46419 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision ddae6a05 - 06/13/2014 08:50 AM - ko1 (Koichi Sasada)

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[Bug #9940]
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Revision cd1f00780b2a412dcb01fcd5abd46df3a547e788 - 07/30/2014 03:52 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r46419,r46429: [Backport #9940]

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to avoid unexpected throw from TracePoint.
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@47009 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision cd1f0078 - 07/30/2014 03:52 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r46419,r46429: [Backport #9940]

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History

#1 - 06/13/2014 08:50 AM - ko1 (Koichi Sasada)

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset r46419.

- vm_trace.c: clear and restore recursive checking thread local data to avoid unexpected throw from TracePoint.
[Bug #9940]
- test/ruby/test_settracefunc.rb: add a test.
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 - rb_threadptr_reset_recursive_data(rb_thread_t *th);
 - rb_threadptr_restore_recursive_data(rb_thread_t *th, VALUE old);
- vm_core.h: ditto.

#2 - 07/30/2014 03:53 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.0.0: UNKNOWN, 2.1: REQUIRED to 2.0.0: UNKNOWN, 2.1: DONE

r46419 and r46429 were backported into ruby_2_1 branch at r47009.

#3 - 08/31/2014 07:36 AM - usa (Usaku NAKAMURA)

- Backport changed from 2.0.0: UNKNOWN, 2.1: DONE to 2.0.0: DONTNEED, 2.1: DONE