

Backport192 - Backport #4367

Thread.kill segfaults when the object to be killed isn't a thread

02/04/2011 10:43 PM - agrimm (Andrew Grimm)

Status:	Closed
Priority:	Normal
Assignee:	yugui (Yuki Sonoda)
Description	
<pre>=begin If something other than a thread is supplied to Thread.kill, a segfault occurs. For example, Thread.kill(nil) causes a segfault: Andrew-Grimms-MacBook-Pro:~ agrimm\$ ruby Thread.kill(nil) -:1: [BUG] Segmentation fault ruby 1.9.3dev (2011-01-29 trunk 30720) [x86_64-darwin10.4.0] -- Control frame information ----- c:0004 p:---- s:0010 b:0010 l:000009 d:000009 CFUNC :kill c:0003 p:0016 s:0006 b:0006 l:002358 d:000798 EVAL -:1 c:0002 p:---- s:0004 b:0004 l:000003 d:000003 FINISH c:0001 p:0000 s:0002 b:0002 l:002358 d:002358 TOP -- Ruby level backtrace information ----- -:1:in <main>' -:1:in kill' -- See Crash Report log file under ~/Library/Logs/CrashReporter or ----- -- /Library/Logs/CrashReporter, for the more detail of ----- -- C level backtrace information ----- -- Other runtime information ----- • Loaded script: - • Loaded features: 0 enumerator.so 1 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/x86_64-darwin10.4.0/enc/encdb.bundle 2 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/x86_64-darwin10.4.0/enc/trans/transdb.bundle 3 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/rubygems/defaults.rb 4 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/x86_64-darwin10.4.0/rbconfig.rb 5 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/thread.rb 6 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/rubygems/exceptions.rb 7 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/rubygems/custom_require.rb 8 /Users/agrimm/.rvm/rubies/ruby-head/lib/ruby/1.9.1/rubygems.rb [NOTE] You may have encountered a bug in the Ruby interpreter or extension libraries. Bug reports are welcome. For details: http://www.ruby-lang.org/bugreport.html Abort trap =end</pre>	

Associated revisions

Revision 3202eea1 - 05/01/2011 09:37 AM - yugui (Yuki Sonoda)

- thread.c (thread_s_kill): workaround for [ruby-core:35086]. fixes #4367.

- test/ruby/test_thread.rb (TestThread#test_kill_wrong_argument): test for [ruby-core:35086].

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_2@31402 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 31402 - 05/01/2011 09:37 AM - yugui (Yuki Sonoda)

- thread.c (thread_s_kill): workaround for [ruby-core:35086]. fixes #4367.
- test/ruby/test_thread.rb (TestThread#test_kill_wrong_argument): test for [ruby-core:35086].

History

#1 - 02/05/2011 01:03 AM - kosaki (Motohiro KOSAKI)

=begin

2011/2/4 Andrew Grimm redmine@ruby-lang.org:

Bug #4367: Thread.kill segfaults when the object to be killed isn't a thread
<http://redmine.ruby-lang.org/issues/show/4367>

Author: Andrew Grimm

Status: Open, Priority: Normal

ruby -v: ruby 1.9.3dev (2011-01-29 trunk 30720) [x86_64-darwin10.4.0]

If something other than a thread is supplied to Thread.kill, a segfault occurs. For example, Thread.kill(nil) causes a segfault:

```
Andrew-Grimms-MacBook-Pro:~ agrimm$ ruby
```

```
Thread.kill(nil)
```

```
-:1: [BUG] Segmentation fault
```

```
ruby 1.9.3dev (2011-01-29 trunk 30720) [x86_64-darwin10.4.0]
```

Good catch!

Yes, current GetThreadPtr has no type check and can makes bad cast.
I'll fix it soon.

=end

#2 - 02/05/2011 01:07 AM - kosaki (Motohiro KOSAKI)

- Status changed from Open to Closed

- % Done changed from 0 to 100

=begin

This issue was solved with changeset r30781.

Andrew, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
- vm_core.h (GetThreadPtr): use TypedData_Get_Struct() instead CoreDataFromValue() because we need type check. Otherwise, type mismatch can cause segmentation fault crash. [ruby-core:35086] [Ruby 1.9-Bug#4367]
 - vm.c (thread_data_type): remove static. =end

#3 - 02/05/2011 01:08 AM - kosaki (Motohiro KOSAKI)

- Category set to core

- Status changed from Closed to Assigned

- Assignee set to yugui (Yuki Sonoda)

- Target version set to 1.9.2

=begin
I bet this need to be backported.
=end

#4 - 02/06/2011 11:19 AM - nobu (Nobuyoshi Nakada)

- *Category set to core*

=begin
=end

#5 - 05/01/2011 06:37 PM - yugui (Yuki Sonoda)

- *Status changed from Assigned to Closed*

This issue was solved with changeset [r31402](#).
Andrew, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

-
- `thread.c` (`thread_s_kill`): workaround for [ruby-core:35086].
fixes [#4367](#).
 - `test/ruby/test_thread.rb` (`TestThread#test_kill_wrong_argument`):
test for [ruby-core:35086].

#6 - 06/09/2011 11:19 PM - nagachika (Tomoyuki Chikanaga)

Hi,

I found by change current 1.9.2-head raise `TypeError` like below.

```
class T < Thread
end
t = T.new { sleep }
Thread.kill(t) #=> TypeError
```

I attach a patch for it.
And test for it was committed by r31967 in trunk. Please backport that.

Regard,

#7 - 06/09/2011 11:21 PM - nagachika (Tomoyuki Chikanaga)

- *File `thread_kill_subclass.patch` added*

Sorry, I forgot to attach the patch. here it is.

Files

<code>ruby_2011-02-05-003336_Andrew-Grimms-MacBook-Pro.crash</code>	4.29 KB	02/04/2011	agrimm (Andrew Grimm)
<code>thread_kill_subclass.patch</code>	451 Bytes	06/09/2011	nagachika (Tomoyuki Chikanaga)