

Ruby - Bug #8770

[PATCH] process.c: avoid EINTR from Process.spawn

08/11/2013 06:11 AM - normalperson (Eric Wong)

Status:	Closed	
Priority:	Normal	
Assignee:	nobu (Nobuyoshi Nakada)	
Target version:		
ruby -v:	44687,44706,44727	Backport:
Description (send_child_error): retry write on EINTR (recv_child_error): retry read on EINTR I've been getting occasional Errno::EINTR from Process.spawn with just the prog name in the error message. This is probably the cause of it, as I haven't been able to get a consistent reproduction of the Errno::EINTR. I've been hitting this on 2.0.0-p247, so it probably needs backport.		

Associated revisions

Revision [fbf4850cabb7dc50be08660fe39889d03a03b96](#) - 01/28/2014 11:54 AM - akr (Akira Tanaka)

- process.c (READ_FROM_CHILD): Apply the last hunk of 0001-process.c-avoid-EINTR-from-Process.spawn.patch written by Eric Wong in [Bug #8770].

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44727 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision [fbf4850c](#) - 01/28/2014 11:54 AM - akr (Akira Tanaka)

- process.c (READ_FROM_CHILD): Apply the last hunk of 0001-process.c-avoid-EINTR-from-Process.spawn.patch written by Eric Wong in [Bug #8770].

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Revision [6770402812366dac38469876c7493c9e3ab71ffe](#) - 02/20/2014 04:44 AM - naruse (Yui NARUSE)

merge revision(s) 44687,44706,44727: [Backport #8770]

```
* process.c (recv_child_error): Fix deadlock in rb_fork_internal when a
```

signal is sent to the parent process while Ruby is forking in IO.popen.

Patch by Scott Francis. Closes GH-513.

* process.c (send_child_error): retry write on EINTR to fix occasional Errno::EINTR from Process.spawn.

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* process.c (recv_child_error): retry read on EINTR to fix
occasional Errno::EINTR from Process.spawn.
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* process.c (READ_FROM_CHILD): Apply the last hunk of
0001-process.c-avoid-EINTR-from-Process.spawn.patch written by
Eric Wong in [Bug #8770].
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@45061 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision [67704028](#) - 02/20/2014 04:44 AM - naruse (Yui NARUSE)

merge revision(s) 44687,44706,44727: [Backport #8770]

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History

#1 - 08/11/2013 09:11 AM - nobu (Nobuyoshi Nakada)

patch please

#2 - 08/11/2013 11:39 AM - normalperson (Eric Wong)

- File 0001-process.c-avoid-EINTR-from-Process.spawn.patch added

Oops, attached

#3 - 09/17/2013 06:10 PM - naruse (Yui NARUSE)

- Status changed from Open to Assigned

- Assignee set to nobu (Nobuyoshi Nakada)

#4 - 01/24/2014 11:24 PM - normalperson (Eric Wong)

It looks like r44687 implements a partial fix for this, but my proposed patch covers more cases and is more complete.

```
* process.c (recv_child_error): Fix deadlock in rb_fork_internal when a
signal is sent to the parent process while Ruby is forking in IO.popen.
```

Patch by Scott Francis. Closes GH-513.

#5 - 01/25/2014 05:56 AM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed

- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED

Oops, I missed to include the reference in r44706.

#6 - 01/25/2014 08:11 AM - normalperson (Eric Wong)

nobu@ruby-lang.org wrote:

Oops, I missed to include the reference in r44706.

No worries. Interesting, now I notice test_process now fails under heavy load with this patch...

This should fix things: <http://bogomips.org/ruby.git/patch?id=81b6f37afe34>

git://80x24.org/ruby.git test_process-avoid-teardown

#7 - 01/26/2014 01:01 AM - nobu (Nobuyoshi Nakada)

Is it an issue of the test code?

<http://c5664.rubyci.org/~chkbuild/ruby-trunk/log/20140125T233302Z.log.html.gz>

#8 - 01/26/2014 01:29 AM - normalperson (Eric Wong)

nobu@ruby-lang.org wrote:

Is it an issue of the test code?

<http://c5664.rubyci.org/~chkbuild/ruby-trunk/log/20140125T233302Z.log.html.gz>

Odd, I did not get this:

1. Error:

```
TestProcess#test_deadlock_by_signal_at_forking:
Errno::EINTR: Interrupted system call - /home/chkbuild/build/20140125T233302Z/ruby/ruby
/home/chkbuild/build/20140125T233302Z/ruby/test/ruby/test_process.rb:1875:in `popen'
/home/chkbuild/build/20140125T233302Z/ruby/test/ruby/test_process.rb:1875:in block in test_deadlock_by_signal_at_forking'
/home/chkbuild/build/20140125T233302Z/ruby/test/ruby/test_process.rb:1873:in times'
/home/chkbuild/build/20140125T233302Z/ruby/test/ruby/test_process.rb:1873:in test_deadlock_by_signal_at_forking'
```

Instead, I got this (with TESTS=-j32):

```
/home/ew/ruby/test/ruby/test_process.rb:15:in waitall': SIGTERM (SignalException) /home/ew/ruby/test/ruby/test_process.rb:15:in teardown'
/home/ew/ruby/lib/minitest/unit.rb:1280:in `block in run'
```

I don't think I was able to reproduce it on a single-threaded test-all.

#9 - 01/28/2014 11:59 AM - akr (Akira Tanaka)

I think the Errno::EINTR error occur in TestProcess#test_deadlock_by_signal_at_forking because r44706 doesn't contain the last hunk in 0001-process.c-avoid-EINTR-from-Process.spawn.patch.

I committed the hunk at r44727.

#10 - 01/28/2014 07:14 PM - normalperson (Eric Wong)

akr@fsij.org wrote:

I think the Errno::EINTR error occur in TestProcess#test_deadlock_by_signal_at_forking because r44706 doesn't contain the last hunk in 0001-process.c-avoid-EINTR-from-Process.spawn.patch.

I committed the hunk at r44727.

Good catch, things look good, thanks!

#11 - 02/19/2014 04:55 AM - tmm1 (Aman Karmani)

- Tracker changed from Bug to Backport
- Target version deleted (2.1.0)
- Project changed from Ruby to 17
- Category deleted (core)
- Status changed from Closed to Assigned

#12 - 02/20/2014 03:52 AM - naruse (Yui NARUSE)

- Tracker changed from Backport to Bug
- Project changed from 17 to Ruby
- ruby -v set to -
- Backport set to 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN

I wrote <https://bugs.ruby-lang.org/projects/ruby/wiki/HowToRequestBackport>

#13 - 02/20/2014 04:01 AM - naruse (Yui NARUSE)

- ruby -v changed from - to 44687,44706,44727
- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED

COMMITTS: 44687,44706,44727

#14 - 02/20/2014 04:45 AM - naruse (Yui NARUSE)

- Backport changed from 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: REQUIRED to 1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: DONE

r45061 on ruby_2_1

#15 - 08/10/2019 02:50 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Assigned to Closed
- Backport deleted (1.9.3: REQUIRED, 2.0.0: REQUIRED, 2.1: DONE)

Files

0001-process.c-avoid-EINTR-from-Process.spawn.patch	3.18 KB	08/11/2013	normalperson (Eric Wong)
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