test_setsid fails for OpenBSD

02/06/2013 08:31 AM - kernigh (George Koehler)

Status: Closed
Priority: Normal
Assignee: kosaki (Motohiro KOSAKI)
Target version: 2.0.0
Backport:

ruby -v:
ruby 2.0.0dev (2013-02-06 trunk 39081) [x86_64-openbsd5.2]

Description
=begin
TestProcess#test_setsid always fails because OpenBSD doesn't allow Process::getsid(pid) when the pid is in a different session.
Quoting man getsid, "[EPERM] The current process and the process pid are not in the same session."

How to reproduce:

$ make test-all TESTS='ruby/test_process.rb -n test_setsid'
CC = gcc
LD = ld
LDSHARED = gcc -shared
CFLAGS = -O3 -fno-fast-math -ggdb3 -Wall -Wextra -Wno-unused-parameter -Wno-unnecessary-parameter -Wno-parentheses -Wno-long-long
-Wno-missing-field-initializers -Wuninitialized-variable -Werror=pointer-arith -Werror=write-strings -Werror=declaration-after-statement
-Werror=implicit-function-declaration -ansi -std=iso9899:199409
XCFLAGS = -include ruby/config.h -include ruby/missing.h -D_FORTIFY_SOURCE=2 -fstack-protector -fno-strict-overflow
-ffvisibility=hidden -DRUBY_EXPORT -fPIE
CPPFLAGS = -I/usr/local/include   -I. -I.ext/include/x86_64-openbsd5.2 -I.. -I/include -I..
DLDFLAGS = -fstack-protector -pie

SOLIBS =
./miniruby -l.. -l.lib -l.. -l.ext/common ../tool/runruby.rb --extout=./ext -- --disable-gems "/../test/runner.rb" --ruby="/..miniruby -l.. -l.lib -l.. -l.ext/common ../tool/runruby.rb --extout=./ext -- --disable-gems" ruby/test_process.rb -n test_setsid
Run options: "--ruby="/..miniruby -l.. -l.lib -l.. -l.ext/common ../tool/runruby.rb --extout=./ext -- --disable-gems" -n test_setsid

# Running tests:

[1/1] TestProcess#test_setsid = 3.04 s
1) Error:
test_setsid(TestProcess):
Errno::EPERM: Operation not permitted
/home/kernigh/park/ruby/test/ruby/test/ruby/test_process.rb:1589:in getsid'
/home/kernigh/park/ruby/test/ruby/test/ruby/test_process.rb:1589:inblock in test_setsid'
/home/kernigh/park/ruby/test/ruby/test/ruby/test_process.rb:1578:in popen'
/home/kernigh/park/ruby/test/ruby/test/ruby/test_process.rb:1578:intest_setsid'

Finished tests in 3.050209s, 0.32797 tests/s, 0.32797 assertions/s.
1 tests, 1 assertions, 0 failures, 1 errors, 0 skips

ruby -v: ruby 2.0.0dev (2013-02-06 trunk 39081) [x86_64-openbsd5.2]

*** Error code 1

Stop in /home/kernigh/park/ruby/build (line 977 of Makefile).

The only fix is to skip the Process::getsid(pid) in the test. I wrote a patch for this. My patch does not call the skip method, because I was not sure how to call it. I don't want to skip the whole test.

While I am looking at this test, I see that it calls (((Process.kill(:KILL, io.pid)))) but never reaps the zombie process. Shouldn't it call (((Process::wait(io.pid)))) after that?
=end
**Associated revisions**

Revision 88903e23 - 02/06/2013 06:37 AM - kosaki (Motohiro KOSAKI)

- test/ruby/test_process.rb (test_setsid): skip when platform is OpenBSD. Contributed from George Koehler. [Bug #7789] [ruby-core:51889]
  
git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39097 b2dd03c8-39d4-4d8f-98f8-823fe69b080e

Revision 39097 - 02/06/2013 06:37 AM - kosaki (Motohiro KOSAKI)

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**History**

#1 - 02/06/2013 09:21 AM - kosaki (Motohiro KOSAKI)

- Category set to core
- Status changed from Open to Assigned
- Assignee set to kosaki (Motohiro KOSAKI)
- Target version set to 2.0.0

#2 - 02/06/2013 03:37 PM - kosaki (Motohiro KOSAKI)

  The only fix is to skip the Process::getsid(pid) in the test. I wrote a patch for this.

  OK. I agree with skipping test. But I would like to just skip instead of your approach.

  While I am looking at this test, I see that it calls Process.kill(:KILL, io.pid) but never reaps the zombie process. Shouldn't it call > Process.wait(io.pid) after that?

  Yeah! You are right. I'll fix this.

#3 - 02/06/2013 03:37 PM - kosaki (Motohiro KOSAKI)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r39097.

George, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.
<table>
<thead>
<tr>
<th>Files</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>setsid-openbsd.diff</td>
<td>815 Bytes</td>
<td>02/06/2013</td>
<td>kernigh (George Koehler)</td>
</tr>
</tbody>
</table>