test_setsid fails for OpenBSD

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

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>kosaki (Motohiro KOSAKI)</td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
</tr>
</tbody>
</table>

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

**Backport:**

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**Description**

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
XCFLAGS = -include ruby/config.h -include ruby/missing.h -D_FORTIFY_SOURCE=2 -fstack-protector -fno-strict-overflow -fvisibility=hidden -DRUBY_EXPORT -fPIE
CPPFLAGS = -I/usr/local/include -I. -I.ext/include/x86_64-openbsd5.2 -I../include -I..
DLDFLAGS = -fstack-protector -pie

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

Run options: "--ruby=./miniruby -l./lib -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_process.rb:1589:in getsid'
  /home/kernigh/park/ruby/test/ruby/test_process.rb:1589:in block in test_setsid'
  /home/kernigh/park/ruby/test/ruby/test_process.rb:1578:intest_setsid'
Finished tests in 3.050209s, 0.3278 tests/s, 0.3278 assertions/s.
1 tests, 1 assertions, 0 failures, 1 errors, 0 skips
```

---

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
**First Revision**

- **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-98ff-823fe69b080e

**Second Revision**

- **Revision 39097 - 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]

**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::setsid(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.
• test/ruby/test_process.rb (test_setsid): skip when platform is OpenBSD. Contributed from George Koehler. [Bug #7789] [ruby-core:51889]

Files

<table>
<thead>
<tr>
<th>File</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
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<tbody>
<tr>
<td>setsid-openbsd.diff</td>
<td>815 Bytes</td>
<td>02/06/2013</td>
<td>kernigh (George Koehler)</td>
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