Ruby master - Bug #7718

test_ioctl_linux fails on PPC and PPC64

01/21/2013 10:31 PM - vo.x (Vit Ondruch)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td></td>
</tr>
<tr>
<td>Target version:</td>
<td>2.0.0</td>
</tr>
<tr>
<td><code>ruby -v:</code></td>
<td>ruby -v: ruby 2.0.0dev (2013-01-16 trunk 38848) [powerpc-linux] and ruby 1.9.3p362 (2012-12-25 revision 38607) [powerpc64-linux]</td>
</tr>
</tbody>
</table>

**Description**

```
begin
  test_ioctl_linux(TestIO) [/builddir/build/BUILD/ruby-2.0.0-r38848/test/ruby/test_io.rb:2443]: Exception raised: <#>.
=end
```

The above mentioned test case fails on PPC and PPC64. The test case was introduced in 33716. It fails with Ruby 2.0 and Ruby 1.9.3 as well.

**Associated revisions**

Revision 0dddb4b3 - 01/25/2013 05:15 PM - kosaki (Motohiro KOSAKI)

- test/ruby/test_io.rb (test_ioctl_linux): skip if a platform is not x86 because linux ioctl request number depend on cpu arch. At least, alpha, mips, sparc and ppc have a different number. [Bug #7718] [ruby-core:51544]

`git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38941 b2dd03c8-39d4-4d8f-98ff-823fe69b080e`

Revision 38941 - 01/25/2013 05:15 PM - kosaki (Motohiro KOSAKI)

- test/ruby/test_io.rb (test_ioctl_linux): skip if a platform is not x86 because linux ioctl request number depend on cpu arch. At least, alpha, mips, sparc and ppc have a different number. [Bug #7718] [ruby-core:51544]
PPC is not supported platform. so, we need more detailed description why the issue was happen.

#2 - 01/22/2013 02:10 AM - vo.x (Vit Ondruch)
This is the strace output if that might help:

http://paste.fedoraproject.org/2488/

#3 - 01/22/2013 02:41 AM - kosaki (Motohiro KOSAKI)

ioctl(5, RNDGETENTCNT, 0x1001000bd40)   = -1 EINVAL (Invalid argument)

Weird.
RNDGETENTCNT doesn't have returning EINVAL path.

#4 - 01/22/2013 06:45 AM - kosaki (Motohiro KOSAKI)
Please run following program. I guess alpha, mips, sparc and ppc have different RNDGETENTCNT number against x86.

```c
#include

main(){
    printf("%lx\n", RNDGETENTCNT);
}
```

#5 - 01/22/2013 04:51 PM - kosaki (Motohiro KOSAKI)

```ruby
=begin
This is the output:
# ./a.out
40045200

And here is my testing IRB session:

```ruby
# irb
.irb(main):001:0> File.open('/dev/urandom'){|f1|
.irb(main):002:1*         entropy_count = ""
.irb(main):003:1*         # get entropy count
.irb(main):004:1*         f1.ioctl(0x80045200, entropy_count)
.irb(main):005:1>       }
Errno::EINVAL: Invalid argument - /dev/urandom
from (irb):4:in ioctl'
from (irb):4:inblock in irb_binding'
from (irb):1:in open'
from (irb):1
```

And similar script run with strace:

http://paste.fedoraproject.org/2489/`
```
=end
```

#6 - 01/25/2013 12:09 PM - ko1 (Koichi Sasada)
- Category set to core
- Target version set to 2.0.0

#7 - 01/26/2013 02:15 AM - kosaki (Motohiro KOSAKI)
This issue was solved with changeset r38941.
Vit, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

- test/ruby/test_io.rb (test_ioctl_linux): skip if a platform is not x86 because linux ioctl request number depend on cpu arch. At least, alpha, mips, sparc and ppc have a different number. [Bug #7718] [ruby-core:51544]