

Ruby - Bug #7718

test_ioctl_linux fails on PPC and PPC64

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

Status:	Closed	Backport:
Priority:	Normal	
Assignee:		
Target version:	2.0.0	
ruby -v:	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]	
Description		
=begin test_ioctl_linux(TestIO) [/builddir/build/BUILD/ruby-2.0.0-r38848/test/ruby/test_io.rb:2443]: Exception raised: <#<Errno::EINVAL: Invalid argument - /dev/urandom>>. 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. =end		

Associated revisions

Revision 0dddb4b32895e46c31bbad363bafc5a5bfcd7c45 - 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 0dddb4b3 - 01/25/2013 05:15 PM - kosaki (Motohiro KOSAKI)

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History

#1 - 01/22/2013 12:35 AM - kosaki (Motohiro KOSAKI)

- Status changed from Open to Feedback
- Assignee deleted (kosaki (Motohiro KOSAKI))

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.

```
#include <linux/random.h>

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

#5 - 01/22/2013 04:51 PM - vo.x (Vit Ondruch)

=begin
This is the output:

./a.out

40045200

And here is my testing IRB session:

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:in block in irb_binding'
from (irb):1:in open' from (irb):1 from /usr/bin/irb:12:in '
irb(main):006:0> File.open('/dev/urandom'){|f1|
irb(main):007:1*   entropy_count = ""
irb(main):008:1>   f1.ioctl(0x40045200, entropy_count)
irb(main):009:1> }
=> 0
irb(main):010:0>
```

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)

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

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.

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