

Ruby master - Bug #3683

getgrnam on computer with NIS group (+)?

08/12/2010 07:11 AM - rocky (Rocky Bernstein)

Status:	Closed	Backport:
Priority:	Normal	
Assignee:	nobu (Nobuyoshi Nakada)	
Target version:	1.9.3	
ruby -v:	trunk	
Description		
<pre>=begin When I ran "make check" on a computer that has NIS groups, I notice that the ruby-test/test/etc/test_etc.rb fails with this: 1) Error: test_getgrnam(TestEtc): ArgumentError: can't find group for + /src/external-vcs/ruby-test/test/etc/test_etc.rb:86:in getgrnam' /src/external-vcs/ruby-test/test/etc/test_etc.rb:86:inblock in test_getgrnam' /src/external-vcs/ruby-test/test/etc/test_etc.rb:85:in each_value' /src/external-vcs/ruby-test/test/etc/test_etc.rb:85:intest_getgrnam' I guess this is because "+" isn't understood as a NIS group. I'm not sure what you want to do about this, but I thought I'd report it. At "remedy" might not test when the group name is "+" at the end of the /etc/group file. Or one might want to change to code to handle this situation. =end</pre>		

Associated revisions

Revision 61a34d62 - 06/26/2011 04:34 PM - nobu (Nobuyoshi Nakada)

- test/etc/test_etc.rb (TestEtc#test_get{pw,gr}nam): skip entries start with + sign, which means NIS. these are returned in the case that passwd and group entries in /etc/nsswitch.conf are set to use "nis" explicitly on Debian. fixed #3683

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@32242 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 32242 - 06/26/2011 04:34 PM - nobu (Nobuyoshi Nakada)

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Revision 9d46a808 - 08/11/2011 12:37 AM - yugui (Yuki Sonoda)

merges r32242 from trunk into ruby_1_9_2.

- test/etc/test_etc.rb (TestEtc#test_get{pw,gr}nam): skip entries start with + sign, which means NIS. these are returned in the case that passwd and group entries in /etc/nsswitch.conf are set to use "nis" explicitly on Debian. fixed #3683

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_1_9_2@32910 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 08/17/2010 12:28 PM - naruse (Yui NARUSE)

```
=begin
show ruby -v.
=end
```

#2 - 08/19/2010 02:20 AM - rocky (Rocky Bernstein)

```
=begin
$ ruby -v
ruby 1.9.3dev (2010-07-15 trunk 28647) [i686-linux]
```

Sorry for the omission.
=end

#3 - 08/27/2010 01:10 PM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Feedback

```
=begin
Can you tell us which environment that happen?
=end
```

#4 - 08/27/2010 01:44 PM - phasis68 (Heesob Park)

```
=begin
Refer to
http://ha.redhat.com/mirrors/LDP/LDP/nag2/x-087-2-nis.passwd.html
http://docs.hp.com/en/B9106-90011/group.4.html
```

=end

#5 - 08/27/2010 10:13 PM - shyouhei (Shyouhei Urabe)

```
=begin
No no, I mean, current Etc.group { ... } is a very thin wrapper to call getgrent(3) over and over. We do not even open the /etc/group file for us directly. All accesses to those info are via libc calls. So if you encounter that exception, it's not us but your libc who should understand your '+' entry. Hence my previous question.
=end
```

#6 - 08/30/2010 03:37 AM - rocky (Rocky Bernstein)

```
=begin
I'm in Tokyo right now, and can't get access to the computer where this was happening. Also, I am not able to make the test fail on my laptop. So hopefully I will be able give useful information when I get back to the U.S with useful information which should be no earlier than Sept 8.
=end
```

#7 - 09/08/2010 12:47 AM - rocky (Rocky Bernstein)

```
=begin
I ran the following program to show group information in C on the computer where the test was failing:
```

```
#include
#include
#include
#include
int main(int argc, const char *argv[])
{
```

```

struct group *grp;
errno = 0;
while (grp = getgrnt()) {
printf("name: %s, passwd: %s, errno %d\n", grp->gr_name, grp->gr_passwd, errno);
errno = 0;
}
}

```

The output shows:

```

name: root, passwd: x, errno 0
...
name: snmp, passwd: x, errno 0
name: +, passwd: , errno 0

```

My /etc/group file

```

root:x:0:
...
snmp:x:139:
+:::

```

So getgrnt() reports "+" as a group name; "+" is at the end of the /etc/group file. However it isn't the name of a group. Instead, "+" indicates including NIS groups. See for example section 3. <http://lyre.mit.edu/~powell/debian-howto/nis.html>

So getgrnam() returns 0 and errno shows no indication of an error (that is, errno is 0).

=end

#8 - 09/08/2010 06:56 AM - nobu (Nobuyoshi Nakada)

```

=begin
Hi,

```

At Wed, 8 Sep 2010 00:47:09 +0900,
Rocky Bernstein wrote in [ruby-core:32106]:

So getgrnt() reports "+" as a group name; "+" is at the end of the /etc/group file. However it isn't the name of a group. Instead, "+" indicates including NIS groups. See for example section

1. <http://lyre.mit.edu/~powell/debian-howto/nis.html>

Then it's the issue of your libc. Why don't you reveal which distro you are using?

```

--
Nobu Nakada

```

=end

#9 - 09/08/2010 07:06 AM - nobu (Nobuyoshi Nakada)

- Status changed from Feedback to Third Party's Issue

```

=begin

```

=end

#10 - 09/08/2010 12:47 PM - rocky (Rocky Bernstein)

```

=begin
Sorry for the omission. Ubuntu Lucid. Details follow. If there is more information you'd like let me know.

```

```

$ lsb_release -a

```

LSB Version:

```

core-2.0-ia32:core-2.0-noarch:core-3.0-ia32:core-3.0-noarch:core-3.1-ia32:core-3.1-noarch:core-3.2-ia32:core-3.2-noarch:core-4.0-ia32:core-4.0-noarch:cxx-3.0-ia32:cxx-3.0-noarch:cxx-3.1-ia32:cxx-3.1-noarch:cxx-3.2-ia32:cxx-3.2-noarch:cxx-4.0-ia32:cxx-4.0-noarch:desktop-3.1-ia32:desktop-3.1-noarch:desktop-3.2-ia32:desktop-3.2-noarch:desktop-4.0-ia32:desktop-4.0-noarch:graphics-2.0-ia32:graphics-2.0-noarch:graphics-3.0-ia32:graphics-3.0-noarch:graphics-3.1-ia32:graphics-3.1-noarch:graphics-3.2-ia32:graphics-3.2-noarch:graphics-4.0-ia32:graphics-4.0-noarch:printing-3.2-ia32:printing-3.2-noarch:printing-4.0-ia32:printing-4.0-noarch:qt4-3.1-ia32:qt4-3.1-noarch

```

Distributor ID: Ubuntu

Description: Ubuntu 10.04.1 LTS

Release: 10.04
Codename: lucid

```
$ uname -a  
Linux verne 2.6.32-24-generic #42-Ubuntu SMP Fri Aug 20 14:24:04 UTC 2010 i686 GNU/Linux
```

```
$ cat /etc/debian_version  
squeeze/sid
```

```
$ dpkg -l nis libc-bin libc6  
Desired=Unknown/Install/Remove/Purge/Hold  
| Status=Not/Inst/Cfg-files/Unpacked/Failed-cfg/Half-inst/trig-aWait/Trig-pend  
|/ Err?=(none)/Reinst-required (Status,Err: uppercase=bad)  
||/ Name          Version          Description  
+++-----  
ii libc-bin      2.11.1-0ubuntu Embedded GNU C Library: Binaries  
ii libc6        2.11.1-0ubuntu Embedded GNU C Library: Shared libraries  
ii nis          3.17-31         clients and daemons for the Network Informat  
  
=end
```

#11 - 09/08/2010 01:03 PM - nobu (Nobuyoshi Nakada)

```
=begin  
Hi,
```

At Wed, 8 Sep 2010 12:41:48 +0900,
Rocky Bernstein wrote in [ruby-core:32118]:

Sorry for the omission. Ubuntu Lucid. Details follow. If there is more information you'd like let me know.

I can't reproduce it on the x86_64 Ubuntu 10.04.1.

```
ii nis          3.17-31         clients and daemons for the Network Informat
```

What does `ypcat group' emit?

```
--  
Nobu Nakada  
  
=end
```

#12 - 09/08/2010 01:03 PM - nobu (Nobuyoshi Nakada)

- Status changed from Third Party's Issue to Feedback

```
=begin  
  
=end
```

#13 - 09/08/2010 03:11 PM - rocky (Rocky Bernstein)

```
=begin  
Hi, you reported:
```

I can't reproduce it on the x86_64 Ubuntu 10.04.1.

I am not not surprised because I couldn't reproduce it in earlier on my i686 Ubuntu 10.04.1 laptop in Japan. (I meant to indicate that in note [#6](#) earlier.) I've since removed NIS on that laptop, but give me some more time to set up NIS again on the laptop; perhaps I'll be able to compare with what I get on that other computer and track down further.

By the way, if I remove the
+:::
line, NIS seems to still work for groups, and the test succeeds.

You query:

What does `ypcat group' emit?

```
$ ypcat group
```

```
johnchid:x:501:johnchid,rocky,cspathis
sam:x:1011:sam,rocky
slocate:x:516:cspathis,rocky
rajesh:x:1018:rocky,cspathis
bby:x:1012:bby,rocky
ceidata:x:535:root,rocky,mahmoud,john,cspathis,sam
alana:x:1008:rocky
jlsurdilla:x:1017:rocky,cspathis
martin:x:1002:rocky
tester:x:1009:rocky,john
john:x:1004:
rocky:x:1000:
hanu:x:1014:hanu,rocky,mahmoud,john,cspathis
postgres:x:527:rocky
mongrel:x:999:rocky,martin,cspathis,john
devel:x:530:cspathis,rocky,john,jlsurdilla
ron:x:1015:rocky
production:x:1010:rocky
admin:x:520:cspathis,rocky
ceiindia:x:1006:ceiindia,rocky,john,martin,cspathis
mahmoud:x:1001:rocky,cspathis,sam
rich:x:1013:rich,rocky
cspathis:x:1003:rocky
datap:x:998:rocky
bind:x:508:rocky,cspathis,sam,root
datashare:x:1016:rocky,john,cspathis
```

=end

#14 - 06/26/2011 03:08 PM - naruse (Yui NARUSE)

- Status changed from *Feedback* to *Assigned*
- Assignee set to *nobu (Nobuyoshi Nakada)*
- Target version set to *1.9.3*

#15 - 06/27/2011 01:34 AM - nobu (Nobuyoshi Nakada)

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

This issue was solved with changeset r32242.
Rocky, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

-
- test/etc/test_etc.rb (TestEtc#test_get{pw,gr}nam): skip entries start with + sign, which means NIS. these are returned in the case that passwd and group entries in /etc/nsswitch.conf are set to use "nis" explicitly on Debian. fixed [#3683](#)