

## Ruby master - Bug #9352

### [BUG] rb\_sys\_fail\_str(connect(2) for [fe80::1%lo0]:3000) - errno == 0

01/03/2014 01:55 PM - kain (Claudio Poli)

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	naruse (Yui NARUSE)	
<b>Target version:</b>		
<b>ruby -v:</b>	ruby 2.1.0p0 (2013-12-25 revision 44422) [x86_64-darwin13.0]	<b>Backport:</b> 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: DONE

#### Description

I'm seeing this crash attempting to connect to an http unreachable host (127.0.0.1:3000) through Excon, which in turn uses connect\_nonblock.

I'm compiling ruby-trunk at the moment, to try on it as well.

#### Associated revisions

##### Revision 8f045561 - 01/03/2014 10:12 AM - charliesome (Charlie Somerville)

- ext/socket/socket.c (rsock\_sys\_fail\_host\_port): save and restore errno before calling rb\_sys\_fail\_str to prevent [BUG] errno == 0. Patch by Eric Wong. [ruby-core:59498] [Bug #9352]
- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_sockaddr): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44490 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 44490 - 01/03/2014 10:12 AM - charliesome (Charlie Somerville)

- ext/socket/socket.c (rsock\_sys\_fail\_host\_port): save and restore errno before calling rb\_sys\_fail\_str to prevent [BUG] errno == 0. Patch by Eric Wong. [ruby-core:59498] [Bug #9352]
- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
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- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

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- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto

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- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

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- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
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- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_sockaddr): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

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- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_sockaddr): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

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- ext/socket/socket.c (rsock\_sys\_fail\_host\_port): save and restore errno before calling rb\_sys\_fail\_str to prevent [BUG] errno == 0. Patch by Eric Wong. [ruby-core:59498] [Bug #9352]
- ext/socket/socket.c (rsock\_sys\_fail\_path): ditto

- ext/socket/socket.c (rsock\_sys\_fail\_sockaddr): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto
- ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

### Revision 1b05b4f4 - 02/05/2014 01:08 PM - naruse (Yui NARUSE)

merge revision(s) 44490,44496: [Backport #9352]

- \* ext/socket/socket.c (rsock\_sys\_fail\_host\_port): save and restore errno before calling rb\_sys\_fail\_str to prevent [BUG] errno == 0. Patch by Eric Wong. [ruby-core:59498] [Bug #9352]
- \* ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
- \* ext/socket/socket.c (rsock\_sys\_fail\_sockaddr): ditto
- \* ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto
- \* ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto
- \* ext/socket/socket.c (rsock\_syserr\_fail\_host\_port): add errno argument version and use rb\_syserr\_fail\_str() instead of rb\_sys\_fail\_str() with restoring errno.
- \* ext/socket/socket.c (rsock\_syserr\_fail\_path): ditto, and rb\_syserr\_fail().
- \* ext/socket/socket.c (rsock\_sys\_fail\_sockaddr): ditto, use rsock\_syserr\_fail\_raddrinfo().
- \* ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto.
- \* ext/socket/socket.c (setup\_domain\_and\_type): ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_1@44842 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

## History

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### #1 - 01/03/2014 02:49 PM - kain (Claudio Poli)

Issue persists with ruby 2.2.0dev (2014-01-03 trunk 44488) [x86\_64-darwin13.0]

### #2 - 01/03/2014 04:35 PM - normalperson (Eric Wong)

- File 0001-socket-preserve-errno-before-rb\_sys\_fail\_-and-friend.patch added

I can't reproduce the issue, but I think it has to do with calling functions which may clobber errno before finally calling rb\_sys\_fail.

Can you try the attached patch (or pull request) against trunk?

\$ git pull git://80x24.org/ruby.git sock-preserve-errno

The following changes since commit 12b09864056bfb961f06b0ef675b9fc2fabb9238:

- properties. (2014-01-03 01:51:05 +0000)

are available in the git repository at:

git://80x24.org/ruby.git sock-preserve-errno

for you to fetch changes up to aaa0e88d55abccdfdf895508b86fe18e3d6b5cea:

socket: preserve errno before rb\_sys\_fail\_\* and friends (2014-01-03 07:24:35 +0000)

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Eric Wong (1):

socket: preserve errno before rb\_sys\_fail\_\* and friends

ext/socket/socket.c | 13 ++++++

1 file changed, 13 insertions(+)

### #3 - 01/03/2014 06:59 PM - tmm1 (Aman Gupta)

I can confirm Eric's patch fixes this [BUG] for me in faraday's test suite.

### #4 - 01/03/2014 07:12 PM - charliesome (Charlie Somerville)

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r44490.

Claudio, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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- ext/socket/socket.c (rsock\_sys\_fail\_host\_port): save and restore errno before calling rb\_sys\_fail\_str to prevent [BUG] errno == 0. Patch by Eric Wong. [ruby-core:59498] [Bug #9352]
  - ext/socket/socket.c (rsock\_sys\_fail\_path): ditto
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  - ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo): ditto
  - ext/socket/socket.c (rsock\_sys\_fail\_raddrinfo\_or\_sockaddr): ditto

### #5 - 01/03/2014 07:15 PM - charliesome (Charlie Somerville)

- Status changed from Closed to Open

- Assignee set to naruse (Yui NARUSE)

- % Done changed from 100 to 0

- Backport changed from 1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN to 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED

### #6 - 01/03/2014 07:23 PM - normalperson (Eric Wong)

Thanks for testing. I can't say I like my patch, however, as it's still error-prone and fragile.

How about some new functions to the C API:

```
rb_syserr_fail_str(VALUE mesg, int errnum);
rb_syserr_fail(const char *mesg, int errnum);
```

And deprecate rb\_sys\_fail and rb\_sys\_fail\_str.

### #7 - 01/03/2014 08:24 PM - kain (Claudio Poli)

Thanks Eric, patch fixes the issue for me in ruby 2.2.0dev (2014-01-03 trunk 44490) [x86\_64-darwin13.0]

### #8 - 01/06/2014 06:01 AM - tmm1 (Aman Gupta)

[nobu \(Nobuyoshi Nakada\)](#) cleaned up the patch in r44496, so that can be backported instead of r44490

### #9 - 02/18/2014 11:20 PM - naruse (Yui NARUSE)

- Backport changed from 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: REQUIRED to 1.9.3: DONTNEED, 2.0.0: DONTNEED, 2.1: DONE

### #10 - 02/18/2014 11:20 PM - naruse (Yui NARUSE)

- Status changed from Open to Closed

## Files

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ruby_2014-01-03-053648_kain-retina.crash	31.3 KB	01/03/2014	kain (Claudio Poli)
full_info.txt	411 KB	01/03/2014	kain (Claudio Poli)
0001-socket-preserve-errno-before-rb_sys_fail_-and-friend.patch	2.34 KB	01/03/2014	normalperson (Eric Wong)