Ruby master - Bug #5780

test/fileutils/test_fileutils.rb:86: [BUG] Segmentation fault

12/20/2011 04:13 AM - Hector (Hector Oron)

| Status: | Closed |
| Priority: | Normal |
| Assignee: |  |
| Target version: | ruby -v: ruby 1.9.3p0 (2011-10-30) [arm-linux-eabihf] |
| Backport: |  |

Description

Hello,

Using Debian Sid/unstable I am trying to port ruby1.9.1 (1.9.3.0) package to ARM hardfloat, some data on my build environment is:

- gcc version 4.6.2 (Debian 4.6.2-7)
- libc6 eglibc 2.13 (Debian 2.13-21)
- Architecture ARM hard float

If you have any idea on possible fixes I would be willing to test it out. If you need access to Debian ARM hard float (armhf) hardware, it might be able to be arranged as well via SSH account, provided some information at <http://dsa.debian.org/doc/guest-account/>

Kind regards

Failure:

TestFileUtils#test_cd = /home/zumbi/ruby1.9.1-1.9.3.0/test/fileutils/test_fileutils.rb:86: [BUG] Segmentation fault
ruby 1.9.3p0 (2011-10-30) [arm-linux-eabihf]

-- Control frame information -----------------------------------------------
c:0026 p:---- s:0105 b:0105 l:000104 d:000104 CFUNC  :system
c:0025 p:0039 s:0101 b:0101 l:000100 d:000100 METHOD /home/zumbi/ruby1.9.1-1.9.3.0/test/fileutils/test_fileutils.rb:86
c:0024 p:0089 s:0097 b:0097 l:000096 d:000096 METHOD /home/zumbi/ruby1.9.1-1.9.3.0/test/fileutils/test_fileutils.rb:102
c:0023 p:0046 s:0093 b:0093 l:000092 d:000092 METHOD /home/zumbi/ruby1.9.1-1.9.3.0/lib/minitest/unit/unit.rb:947
c:0022 p:0025 s:0087 b:0087 l:000086 d:000086 METHOD /home/zumbi/ruby1.9.1-1.9.3.0/lib/test/unit/testcase.rb:17
c:0021 p:0090 s:0083 b:0083 l:000071 d:000082 BLOCK /home/zumbi/ruby1.9.1-1.9.3.0/lib/minitest/unit/unit.rb:787
c:0020 p:---- s:0077 b:0077 l:000076 d:000076 FINISH

-- Ruby level backtrace information ----------------------------------------
./test/runner.rb:15:in <main> /home/zumbi/ruby1.9.1-1.9.3.0/lib/test/unit/unit.rb:634:in <run>
/home/zumbi/ruby1.9.1-1.9.3.0/lib/test/unit.rb:630:in run
/home/zumbi/ruby1.9.1-1.9.3.0/lib/test/unit.rb:21

Related issues:
Related to Ruby master - Bug #5882: segfault in miniruby in ruby1.9.3 crossc... Rejected 01/12/2012
Related to Ruby master - Bug #6011: ruby-1.9.3-p0/lib/webrick/utils.rb:184: [...] Closed 02/14/2012

History
#1 - 02/06/2012 08:37 PM - naruse (Yui NARUSE)
- Tracker changed from Backport to Bug
- Project changed from Backport193 to Ruby master

#2 - 03/11/2012 05:08 PM - ko1 (Koichi Sasada)
- Assignee set to mame (Yusuke Endoh)
- ruby -v set to ruby 1.9.3p0 (2011-10-30) [arm-linux-eabihf]

We need ARM maintainer.
Endo-san, could you deliver this issue?

#3 - 03/18/2012 06:46 PM - shyouhei (Shyouhei Urabe)
- Status changed from Open to Assigned

#4 - 04/20/2012 05:09 AM - mame (Yusuke Endoh)
- Status changed from Assigned to Feedback
- Assignee deleted (mame (Yusuke Endoh))

Hello,

Anyone is interested in this?
If any, please negotiate with Debian team, get an access to their hardware, and create patches.

Basically, I'm reluctant to add a supported platform, in terms of release management.
But I will happily accept them if there is a volunteer who becomes ARM maintainer.

--
Yusuke Endoh mame@tsq.ne.jp

#5 - 06/06/2012 02:17 PM - Sledge (Steve McIntyre)
We've found the solution to this problem in Debian. See
http://bugs.debian.org/652674
for more details. Basically, the fallback code for platforms without working getcontext/setcontext appears to be buggy. We've just added implementations of those syscalls for ARM and the problem went away.

#6 - 06/06/2012 09:38 PM - vo.x (Vit Ondruch)
Seems that the #6011 was fixed by recent glibc-2.15-39.fc18 on Fedora Rawhide. Thank you Steve!
http://arm.koji.fedoraproject.org/koji/taskinfo?taskID=886988

#7 - 06/07/2012 04:23 AM - kosaki (Motohiro KOSAKI)
- Status changed from Feedback to Closed

Thank you. closed.

#8 - 06/07/2012 04:21 PM - vo.x (Vit Ondruch)
kosaki (Motohiro KOSAKI) wrote:

Thank you. closed.

Could somebody more knowledgeable then me please invest some time into analysis of “the fallback code for platforms without working getcontext/setcontext appears to be buggy” prior closing such bugs? If there is actually no real fallback, then there should be at least clear error message instead of SEGV IMO. Thank you.

#9 - 06/08/2012 02:01 AM - Sledge (Steve McIntyre)

Oh. hmmm.

I might be mistaken here; the Debian bug that is closed by the getcontext/setcontext fix is a crash in the fibers test, not (necessarily) test_fileutils.rb.