

Ruby master - Bug #8268

ruby 2.0.0 incorrectly detects debugflags on SmartOS / gcc 4.7

04/15/2013 03:50 PM - mattconnolly (Matt Connolly)

Status: Closed	
Priority: Normal	
Assignee: nobu (Nobuyoshi Nakada)	
Target version:	
ruby -v: 2.0.0-p0	Backport:
Description	
<p>When compiling ruby from source on Smart OS, which uses gcc-4.7, the configure script fails to correctly detect a compatible debug flag. It chooses "-ggdb3" which doesn't work, and this causes all of the conftest.c compilations to fail at build without executing.</p> <p>Running configure like <code>./configure ac_cv_func_dl_iterate_phdr=no</code> fails to complete the configure script.</p> <p>Running configure like this: <code>./configure ac_cv_func_dl_iterate_phdr=no debugflags="-ggdb"</code> works. Configure completes and ruby compiles and runs fine.</p> <p>I'm not sure if this is a SmartOS specific problem, or gcc 4.7, so I'm writing it here to see if others have seen the same thing.</p>	
Related issues:	
Related to Ruby master - Bug #5384: Ruby 1.9.3-RC1 Fails to Compile on Illumo...	Third Party's Issue 01/2011

Associated revisions

Revision 526ffc53 - 04/19/2013 02:37 AM - nobu (Nobuyoshi Nakada)

configure.in: -g and -fstack-protector flags can't work

together on SmartOS

- configure.in (stack_protector): control use of -fstack-protector.
- configure.in (debugflags): let -fstack-protector precede and disable debugflags, because they can't work together on SmartOS. [Bug #8268]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@40364 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 40364 - 04/19/2013 02:37 AM - nobu (Nobuyoshi Nakada)

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History

#1 - 04/16/2013 08:16 AM - naruse (Yui NARUSE)

What is `$target_os` in `configure` on SmartOS?

#2 - 04/16/2013 11:02 AM - nobu (Nobuyoshi Nakada)

Could you show your `config.log`?

#3 - 04/16/2013 11:04 AM - nobu (Nobuyoshi Nakada)

At least, `gcc 4.7` on Debian 7 and MacPorts work fine with `-ggdb3`, so it's not `gcc 4.7` specific.

#4 - 04/18/2013 08:30 PM - mattconnolly (Matt Connolly)

Hello naruse and nobu, thank you for looking into this issue.

I have recorded a log of attempting to build `ruby-2.0.0-p0` in a clean SmartOS instance at this gist: <https://gist.github.com/mattconnolly/5411998>

This includes `config.log`. At the end I've tried a very simple `.c` program to check `gcc`.

The target os is `'solaris2.11'`

I'm really not an expert at `configure` scripts and using `autoconf`, etc. I will help as much as I can.

#5 - 04/18/2013 08:35 PM - mattconnolly (Matt Connolly)

Actually, I just found this page: <http://docs.oracle.com/cd/E19082-01/819-0690/chapter4-29405/index.html>

It appears that using `CFLAGS="-R -fPIC"` might help...

That makes `configure` succeed, but `make` fails with missing symbol `"signbit"`. Possibly a separate issue.

Are there any other systems that use `"-R"` or `"-fPIC"` compiler flags?

#6 - 04/18/2013 08:48 PM - mattconnolly (Matt Connolly)

I can add `"rb_cv_have_signbit=no"` to workaround the `make` error for now.

#7 - 04/19/2013 11:37 AM - nobu (Nobuyoshi Nakada)

- *Status changed from Open to Closed*

- *% Done changed from 0 to 100*

This issue was solved with `changeset r40364`.

Matt, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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#8 - 04/19/2013 11:38 AM - nobu (Nobuyoshi Nakada)

Seems failing with `-ggdb3` and `-fstack-protector`.
Setting `CFLAGS` excludes `$debugflags` from it.
Try `r40364`.