Hi,

Solaris 10
gcc 4.8
ruby 2.2.0 current stable

I did configure/make, and it works until it tries to generate rdoc:

Generating RDoc documentation
/export/home/djberge/Downloads/Ruby/ruby-2.2.0/.ext/common/date.rb:3:in `require': ld.so.1: ruby:
fatal: relocation error: file /export/home/djberge/Downloads/Ruby/ruby-2.2.0/.ext/1386-solaris2.10
/date_core.so: symbol rb_infinity: referenced symbol not found - /export/home/djberge/Downloads/Ru
by/ruby-2.2.0/.ext/1386-solaris2.10/date_core.so (LoadError)
from /export/home/djberge/Downloads/Ruby/ruby-2.2.0/.ext/common/date.rb:3:in `<top (required)>'
from /export/home/djberge/Downloads/Ruby/ruby-2.2.0/lib/time.rb:1:in `require'
from /export/home/djberge/Downloads/Ruby/ruby-2.2.0/lib/time.rb:1:in `<top (required)>'
from /export/home/djberge/Downloads/Ruby/ruby-2.2.0/lib/rdoc/rdoc.rb:6:in `require'
from /export/home/djberge/Downloads/Ruby/ruby-2.2.0/lib/rdoc/rdoc.rb:6:in `<top (required)>'
from ./bin/rdoc:16:in `require'
from ./bin/rdoc:16:in `<main>'

make: *** [rdoc] Error 1

Associated revisions

Revision 4651b846 - 03/28/2015 12:23 AM - naruse (Yui NARUSE)

- ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] ruby itself (including numeric.c) is built with strict compile options including -std=iso9899:1999, but ext/date is not. By the way -std=iso9899:1999 is not only a warning option but also changes behavior like MACRO definitions for example INFINITY. gcc on Solaris affect this.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@50104 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 50104 - 03/28/2015 12:23 AM - naruse (Yui NARUSE)

- ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] ruby itself (including numeric.c) is built with strict compile options including -std=iso9899:1999, but ext/date is not. By the way -std=iso9899:1999 is not only a warning option but also changes behavior like MACRO definitions for example INFINITY. gcc on Solaris affect this.

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Revision 0a321b21 - 03/28/2015 02:30 AM - naruse (Yui NARUSE)
fix r50104 [Bug #10906]
git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@50105 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 50105 - 03/28/2015 02:30 AM - naruse (Yui NARUSE)
fix r50104 [Bug #10906]

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Revision 6cf3dc31 - 08/12/2015 02:58 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 50104,50105: [Backport #10906]

* ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] ruby itself (including numeric.c) is built with strict compile options including -std=iso9899:1999, but ext/date is not. By the way -std=iso9899:1999 is not only a warning option but also changes behavior like MACRO definitions for example INFINITY. gcc on Solaris affect this.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@51553 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51553 - 08/12/2015 02:58 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 50104,50105: [Backport #10906]

* ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] ruby itself (including numeric.c) is built with strict compile options including -std=iso9899:1999, but ext/date is not. By the way -std=iso9899:1999 is not only a warning option but also changes behavior like MACRO definitions for example INFINITY. gcc on Solaris affect this.

Revision 18d73ae8 - 11/18/2015 11:57 AM - usa (Usaku NAKAMURA)
merge revision(s) 50104,50105: [Backport #10906]

* ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] ruby itself (including numeric.c) is built with strict compile options including -std=iso9899:1999, but ext/date is not. By the way -std=iso9899:1999 is not only a warning option but also changes behavior like MACRO definitions for example INFINITY. gcc on Solaris affect this.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@52645 b2dd03c8-39d4-4d8f-98ff-823fe69b080e
* ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] 
ruby itself (including numeric.c) is built with strict compile 
options including -std=iso9899:1999, but ext/date is not. 
By the way -std=iso9899:1999 is not only a warning option but also 
changes behavior like MACRO definitions for example INFINITY. 
gcc on Solaris affect this.

History

#1 - 02/26/2015 12:08 PM - ngoto (Naohisa Goto)
- Status changed from Open to Feedback

Could you please show configure options and environment variables, 
and execute the following commands and show results?

% /usr/ccs/bin/nm numeric.o | grep infinity
% /usr/ccs/bin/nm .ext/i386-solaris2.10/date_core.so | grep infinity

#2 - 02/28/2015 06:46 AM - djberg96 (Daniel Berger)

I didn't send any options to configure.

/usr/ccs/bin/nm numeric.o | grep infinity
/usr/ccs/bin/nm .ext/i386-solaris2.10/date_core.so | grep infinity

[1620] | 0 | NOTTY | GLOB | 0 | UNDEF | rb_infinity

env
LDFLAGS=-R/usr/local/lib -R/opt/csw/lib -R/opt/csw/gcc4/lib
MANPATH=/usr/man:/usr/openwin/share/man:/opt/csw/man:/usr/local/man:
DTSOURCEPROFILE=true
SHELL=/usr/bin/bash
TERM=dtterm
WINDOWID=54526077
LDPWD=/export/home/djberge/Downloads/Ruby/ruby-2.2.0/ext
/usr/local/bin/appconfig/help/C/%H.sdl:/usr/bin/appconfig/help/C/%H.sdl:
DTDEVRST=/export/home/djberge/.dt/help/djberge-unknown-0
USER=djberge
LD_LIBRARY_PATH=/opt/csw/lib:/usr/local/lib/lib:/usr/lib:
OPENWINHOME=/usr/openwin:
DTXSERVERLOCATION=local
XMBINDDIR=/usr/dt/lib/bindings
SESSION_SVR=unknown
HELPPATH=/usr/local/lib/locale:/usr/openwin/lib/help
PATH=/usr/local/bin:/opt/local/bin:/usr/sbin:/usr/bin:/opt/local/bin:
OPTICALVIEWPATH=/export/home/djberge/.dt/help/djberge-unknown-0/%H.sdl:
DISPLAY=:0.0
LANG=C
DTAPPSEARCHPATH=/export/home/djberge/.dt/appconfig/appmanager/L:/usr/dt/appconfig/appmanager/C
TZ=US/Mountain
XPFILESEARCHPATH=/export/home/djberge/.dt/appconfig/icons/%L/%T/%N%S:
HOME=/export/home/djberge:
SDLVL=2
DTSCREENSAVERLIST=StartDtscreenSwarm StartDtscreenQix StartDtscreenFlame StartDtscreenHop StartDtscreenImage
AB_CARDCATALOG=/usr/share/answerbooks/C/ab_cardcatalog
LOGNAME=djberge
DTDATABASESEARCHPATH=/export/home/djberge/.dt/types:/usr/dt/appconfig/types/L:/usr/dt/appconfig/types/C
DTUSERSESSION=djberge-unknown-0
XMICONSEARCHPATH=/export/home/djberge/.dt/icons/%B%M.pm:
DISPLAY=-0.0
The output of the commands suggest that the macro INFINITY was defined when compiling numeric.c but was not defined when compiling ext/date/date_core.c.

I still couldn't find why.

INFINITY is C99 feature, and whether INFINITY is already defined or not is checked in include/ruby/missing.h:

```c
#ifdef INFINITY
#define HAVE_INFINITY
#else
/** @internal */
RUBY_EXTERN const union bytesequence4_or_float rb_infinity;
#define INFINITY (rb_infinity.float_value)
#endif
```

The concrete definition of rb_infinity is in numeric.c:

```c
#ifdef HAVE_INFINITY
#elif !defined(WORDS_BIGENDIAN) /* BYTE_ORDER == LITTLE_ENDIAN */
const union bytesequence4_or_float rb_infinity = {{0x00, 0x00, 0x80, 0x7f}};
#else
const union bytesequence4_or_float rb_infinity = {{0x7f, 0x80, 0x00, 0x00}};
#endif
```

I don't know what to tell you. For anyone reading this, to get around it I did this:

```bash
configure --disable-install-doc --disable-install-rdoc
make
make install
```

It failed when it tried to install bundle gems, but core Ruby was still installed by that point. So then I went to ext/date and added this line near the top of date_core.c

```c
const union bytesequence4_or_float rb_infinity = {{0x7f, 0x80, 0x00, 0x00}};
```

I also had to fix the Makefile:

```bash
top_srcdir = ../..
```

Then make; make install

Now it's working.

Adding "-std=gnu99" to CFLAGS might solve the problem.

```bash
% CFLAGS="-std=gnu99" ./configure
```

Status changed from Feedback to Closed

- % Done changed from 0 to 100

Applied in changeset r50104.

- ext/date/extconf.rb: try_cflags("-std=iso9899:1999") [Bug #10906] ruby itself (including numeric.c) is built with strict compile options including -std=iso9899:1999, but ext/date is not. By the way -std=iso9899:1999 is not only a warning option but also changes behavior like MACRO definitions for example INFINITY. gcc on Solaris affect this.
#7 - 08/07/2015 10:39 PM - daqo (David Qorashi)
Adding CFLAGS="-std=iso9899:1999" worked for me.

#8 - 08/10/2015 03:31 AM - ngoto (Naohisa Goto)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN to 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: REQUIRED

#9 - 08/12/2015 02:59 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: REQUIRED to 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: DONE

Backported into ruby_2_2 branch at r51553.

#10 - 11/18/2015 11:57 AM - usa (Usaku NAKAMURA)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: DONE to 2.0.0: UNKNOWN, 2.1: DONE, 2.2: DONE

ruby_2_1 r52645 merged revision(s) 50104,50105.