

Ruby trunk - Bug #5532

Compile problem for bigdecimal on cygwin

11/01/2011 01:33 PM - duerst (Martin Dürst)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:	2.0.0	
ruby -v:	-	Backport: 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN

Description

I tried to compile the current trunk on cygwin. However, I got a compile problem in 'bigdecimal'. It says (see below for full output):

```
configuring bigdecimal
checking for labs() in stdlib.h... /cygdrive/c/Data/ruby/lib/mkmf.rb:381:in `try_do': The
compiler failed to generate an executable file. (RuntimeError)
You have to install development tools first.
```

What kinds of development tools would be needed? I have successfully compiled Ruby many times; this is the first time I have been told I need 'development tools'.

Many thanks for your help, Martin.

Full output follows:

```
duerst@jougashima ~
$ cd /cygdrive/c/Data/Ruby
```

```
duerst@jougashima /cygdrive/c/Data/Ruby
```

```
$ make
CC = gcc
LD = ld
LDSHARED = gcc -shared -s
CFLAGS = -O3 -g -Wextra -Wno-unused-parameter -Wno-parentheses -Wno-long-long -Wno-missing-field-initializers
-Wunused-variable -Werror=pointer-arith -Werror=write-strings -Werror=declaration-after-statement
-Werror=implicit-function-declaration
XCFLAGS = -include ruby/config.h -include ruby/missing.h -DRUBY_EXPORT
CPPFLAGS = -I. -I.ext/include/i386-cygwin -I./include -I.
DLDFLAGS = -Wl,--enable-auto-image-base,--enable-auto-import -Wl,--out-implib=libruby191.dll.a cygruby191.def
SOLIBS = cygruby191.res.o -lpthread -lrt -ldl -lcrypt
compiling version.c
compiling dmyversion.c
linking miniruby.exe
rbconfig.rb unchanged
generating enc.mk
generating cygruby191.rc
compiling cygruby191.res.o
generating prelude.c
compiling prelude.c
```

```

linking static-library libruby191-static.a
generating cygruby191.def
linking shared-library cygruby191.dll
Creating library file: libruby191.dll.a
generating encdb.h
encdb.h unchanged
making enc
make[1]: /cygdrive/c/Data/Ruby'
make[1]:enc'
make[1]: /cygdrive/c/Data/Ruby'
making srcs under enc
make[1]: /cygdrive/c/Data/Ruby'
make[1]: srcs'
make[1]: /cygdrive/c/Data/Ruby'
generating transdb.h
transdb.h unchanged
making trans
make[1]: /cygdrive/c/Data/Ruby'
make[1]:./enc/trans'
make[1]: /cygdrive/c/Data/Ruby'
making encs
make[1]: /cygdrive/c/Data/Ruby'
make[1]: /cygdrive/c/Data/Ruby'
configuring bigdecimal
checking for labs() in stdlib.h... /cygdrive/c/Data/ruby/lib/mkmf.rb:381:intry_do': The compiler failed to generate an executable file.
(RuntimeError)
You have to install development tools first.
from /cygdrive/c/Data/ruby/lib/mkmf.rb:461:in try_link0'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:476:intry_link'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:619:in try_func'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:894:inblock in have_func'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:790:in block in checking_for'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:284:inblock (2 levels) in postpone'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:254:in open'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:284:inblock in postpone'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:254:in open'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:280:inpostpone'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:789:in checking_for'
from /cygdrive/c/Data/ruby/lib/mkmf.rb:893:inhave_func'
from /cygdrive/c/Data/Ruby/ext/bigdecimal/extconf.rb:3:in <top (required)>'
from ./ext/extmk.rb:174:inload'
from ./ext/extmk.rb:174:in extmake'
from ./ext/extmk.rb:468:inblock in '
from ./ext/extmk.rb:464:in each'
from ./ext/extmk.rb:464:in'
make: *** [exts.mk] 1

duerst@jougashima /cygdrive/c/Data/Ruby
$

```

History

#1 - 11/01/2011 01:40 PM - mrkn (Kenta Murata)

- Category set to ext

- Assignee set to mrkn (Kenta Murata)

Please attach your mkmf.log.

#2 - 11/01/2011 01:43 PM - mrkn (Kenta Murata)

linking static-library libruby191-static.a

Is your ruby really version 1.8.7?

#3 - 11/01/2011 02:26 PM - duerst (Martin Dürst)

- File *mkmf.log* added

mkmf.log attached. Hope this helps.

The pre-installed version of ruby, used as 'baseruby' I guess, is indeed 1.8.7.

But I'm trying to build trunk, so that's I guess where messages such as "linking static-library libruby191-static.a" come from.

#4 - 11/01/2011 02:44 PM - mrkn (Kenta Murata)

- Assignee deleted (*mrkn (Kenta Murata)*)

- Target version set to 2.0.0

The following error is the matter of this issue.

```
/usr/lib/gcc/i686-pc-cygwin/4.5.3/../../../../i686-pc-cygwin/bin/ld: cannot find -lruby191
```

Unfortunately, I don't know cygwin well so I cannot help you.
I'm sorry.

#5 - 11/02/2011 03:32 PM - usa (Usaku NAKAMURA)

Does this patch help you?
(Sorry, I've not tested it.)

Index: configure.in

```
--- configure.in (revision 33590)
+++ configure.in (working copy)
@@ -2506,8 +2506,9 @@ AS_CASE(["$target_os"],
LIBRUBY_DLDFLAGS="${DLDFLAGS}" -Wl,--out-implib=${LIBRUBY}
AS_CASE(["$target_os"],
[cygwin*], [
+   RUBY_SO_NAME="cyg${RUBY_SO_NAME}"
if test x"$enable_shared" = xyes; then
-   LIBRUBY_SO='cyg${RUBY_SO_NAME}.dll
+   LIBRUBY_SO='${RUBY_SO_NAME}.dll
LIBRUBY_DLDFLAGS="${LIBRUBY_DLDFLAGS}" $(RUBYDEF)
fi
],
```

#6 - 11/02/2011 03:52 PM - usa (Usaku NAKAMURA)

eban-san says that libruby191.dll.a is correct (it was cygwin team's request).
So, please ignore above patch. orz

BTW, eban-san also says that he built cygwin ruby from trunk yesterday and there was no problem.
Martin-sensei, could you show us your configure options?

#7 - 11/04/2011 05:53 PM - nobu (Nobuyoshi Nakada)

- ruby -v changed from ruby 1.8.7 (2008-08-11 patchlevel 72) [i386-cygwin] to -

Hi,

(11/11/04 17:02), "Martin J. Dürst" wrote:

BTW, eban-san also says that he built cygwin ruby from trunk yesterday and there was no problem.
Martin-sensei, could you show us your configure options?

Are they stored somewhere? If yes, where?

In config.status file.

```
$ grep configure_args config.status
```

Or

```
$ make showconfig
```

--

Nobu Nakada

#8 - 11/04/2011 06:58 PM - duerst (Martin Dürst)

Here is my configuration:

```
$ make showconfig
```

```
'--with-baseruby=/usr/bin/ruby'
```

```
$ /usr/bin/ruby -v
```

#9 - 11/08/2011 01:01 AM - phasis68 (Heesob Park)

I managed to reproduce this issue and found that it is due to the capital letter in the path name.

```
If you use capital letter in the path name like "/cygdrive/c/Data/Ruby",
in the line #157-159 of lib/mkrmf.rb
topdir = File.dirname(File.dirname(FILE)) #=> "/cygdrive/c/Data/Ruby"
path = File.expand_path($0) #=> "/cygdrive/c/data/ruby/ext/extmk.rb"
$extmk = path[0, topdir.size+1] == topdir+"/" #=> false
```

The workaround is to avoid capital letter in the path name.

#10 - 11/08/2011 07:25 PM - duerst (Martin Dürst)

- Status changed from Open to Closed

Hello Heesob,

Many thanks for solving this problem. You are right that it is about case differences in the path name. However, your description might be slightly misunderstood. The problem is not upper-case letters per se, but letters for which case differs from how they are stored by the OS. In my case /cygdrive/c/Data/ruby/ is correct, because Data is indeed upper-case (Windows remembers the case of a letter, but matches upper- and lowercase).

Regards, Martin.

(I'm still not able to compile completely, but I'll try to get further and open another bug if necessary.)

#11 - 11/08/2011 09:38 PM - phasis68 (Heesob Park)

Hi,

I noticed that the problem started when you executed "cd /cygdrive/c/Data/Ruby" instead of "cd /cygdrive/c/Data/ruby".

Here is the test case.

```
$ mkdir -p /cygdrive/c/Data/ruby
$ cd /cygdrive/c/Data/Ruby
```

```
phasis@phasis-PC /cygdrive/c/Data/Ruby
$ irb
irb(main):001:0> Dir.pwd
=> "/cygdrive/c/Data/Ruby"
irb(main):002:0> File.expand_path("./test.txt")
=> "/cygdrive/c/Data/Ruby/test.txt"
irb(main):003:0> exit
```

```
phasis@phasis-PC /cygdrive/c/Data/Ruby
$ cd /cygdrive/c/Data/ruby
```

```
phasis@phasis-PC /cygdrive/c/Data/ruby
$ irb
irb(main):001:0> Dir.pwd
=> "/cygdrive/c/Data/ruby"
irb(main):002:0> File.expand_path("./test.txt")
=> "/cygdrive/c/Data/ruby/test.txt"
```

irb(main):003:0> exit

Notice the difference between "/cygdrive/c/Data/Ruby/test.txt"
and "/cygdrive/c/Data/ruby/test.txt".

Regards,
Park Heesob

#12 - 11/09/2011 09:41 AM - duerst (Martin Dürst)

Yes, exactly. And the problem went away when I cd'd back to /cygdrive/c/Data/ruby/. Many thanks again!

Files

mkmf.log	668 Bytes	11/01/2011	duerst (Martin Dürst)
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