

Ruby trunk - Bug #5883

thread bootstrap tests fail with clang 3.0 on Snow Leopard

01/12/2012 06:46 AM - luislavena (Luis Lavena)

Status:	Rejected	
Priority:	Normal	
Assignee:		
Target version:	2.0.0	
ruby -v:	ruby 2.0.0dev (2012-01-12 trunk 34277) [x86_64-darwin10.8.0]	Backport:

Description

Hello,

Attempted to use clang to build latest trunk (r34277), using clang-3.0 provided by MacPorts:

```
$ clang --version
clang version 3.0 (tags/RELEASE_30/final)
Target: x86_64-apple-darwin10.8.0
Thread model: posix
```

And generated the following output:

```
test_thread.rb .....F.....
#927 test_thread.rb:307:in <top (required)>:
g = "abc".enum_for(:scan, ./)
loop { g.next }
#=> killed by SIGABRT (signal 6)
| bootstraptest.tmp.rb:3: [BUG] Bus Error
| ruby 2.0.0dev (2012-01-12 trunk 34277) [x86_64-darwin10.8.0]
|
| -- Control frame information -----
| c:0004 p:---- s:0011 b:0011 l:000010 d:000010 CFUNC :loop
| c:0003 p:0029 s:0008 b:0007 l:002078 d:000ee0 EVAL bootstraptest.tmp.rb:3
| c:0002 p:---- s:0004 b:0004 l:000003 d:000003 FINISH
| c:0001 p:0000 s:0002 b:0002 l:002078 d:002078 TOP
|
| -- Ruby level backtrace information -----
| bootstraptest.tmp.rb:3:in'
| bootstraptest.tmp.rb:3:in `loop'
|
| -- C level backtrace information -----
|
| See Crash Report log file under ~/Library/Logs/CrashReporter or
| /Library/Logs/CrashReporter, for the more detail of.
|
| -- Other runtime information -----
|
| * Loaded script: bootstraptest.tmp.rb
|
| * Loaded features:
|
| 0 enumerator.so
| 1 /Users/luis/projects/oss/ruby/clangbuild/.ext/x86_64-darwin10.8.0/enc/encdb.bundle
| 2 /Users/luis/projects/oss/ruby/clangbuild/.ext/x86_64-darwin10.8.0/enc/trans/transdb.bundle
| 3 /Users/luis/projects/oss/ruby/lib/rubygems/defaults.rb
| 4 /Users/luis/projects/oss/ruby/clangbuild/rbconfig.rb
| 5 /Users/luis/projects/oss/ruby/lib/rubygems/deprecate.rb
| 6 /Users/luis/projects/oss/ruby/lib/rubygems/exceptions.rb
| 7 /Users/luis/projects/oss/ruby/lib/rubygems/custom_require.rb
| 8 /Users/luis/projects/oss/ruby/lib/rubygems.rb
```

[NOTE]

| You may have encountered a bug in the Ruby interpreter or extension libraries.

| Bug reports are welcome.

| For details: <http://www.ruby-lang.org/bugreport.html>

|

[ruby-dev:34128]

FAIL 1/943 tests failed

make: *** [yes-btest-ruby] Error 1

Only reference is [ruby-dev:34128]

No special flag were used for compilation. Make reported the following prior start compiling:

\$ make

CC = clang

LD = ld

LDSHARED = clang -dynamiclib

CFLAGS = -O3 -ggdb -Wall -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=shorten-64-to-32

-Werror=implicit-function-declaration -fno-common -pipe

XCFLAGS = -include ruby/config.h -include ruby/missing.h -D_FORTIFY_SOURCE=2 -fstack-protector -fno-strict-overflow

-fvisibility=hidden -DRUBY_EXPORT

CPPFLAGS = -D_XOPEN_SOURCE -D_DARWIN_C_SOURCE -D_DARWIN_UNLIMITED_SELECT -I.

-I.ext/include/x86_64-darwin10.8.0 -I../include -I..

LDLDFLAGS = -Wl,-undefined,dynamic_lookup -Wl,-multiply_defined,suppress -Wl,-flat_namespace -install_name

/Users/luis/local/ruby2/lib/libruby.2.0.0.dylib -current_version 2.0.0 -compatibility_version 2.0.0 -Wl,-unexported_symbol,Init*

-Wl,-unexported_symbol,threadptr -fstack-protector -Wl,-u,_objc_msgSend -fstack-protector -Wl,-u,_objc_msgSend

SOLIBS =

BASERUBY was ruby 1.9.3p0 (2011-10-30 revision 33570) [x86_64-darwin10.8.0]

Thank you.

History

#1 - 01/12/2012 07:30 AM - naruse (Yui NARUSE)

- Status changed from Open to Rejected

- Assignee deleted (mame (Yusuke Endoh))

Use gcc, clang can't work for ruby yet.

#2 - 01/12/2012 07:37 AM - luislavena (Luis Lavena)

Oh bummer, where is the fun then?

#3 - 01/12/2012 09:27 AM - naruse (Yui NARUSE)

Luis Lavena wrote:

Oh bummer, where is the fun then?

I can't understand this sentence with my poor English skill but kindly speaking, Yes, it's not work and I know to fix it is not easy because I tried to fix and reported it to LLVM and sometimes it works (see my tickes and commits related to LLVM/clang). But LLVM/clang is so a developing product that it sometimes work, sometimes not work through my experience.

Once clang-trunk works well but at another time it doesn't.

For example I confirm following works well, but on FreeBSD 9.0 it doesn't work.

ruby 2.0.0dev (2012-01-12 trunk 34277) [x86_64-darwin11.2.0]

clang version 3.1 (trunk 147813)

Target: x86_64-apple-darwin11.2.0

So I concluded that we can't support clang now and wait it stable.

Under such circumstances, what I should say to a casual user or a bummer like you will be "Use gcc".Of course an effort to make clang works with ruby is welcome, and patches are also welcome.

I'll constantly continue such effort.

#4 - 01/12/2012 09:38 AM - luislavena (Luis Lavena)

Yui NARUSE wrote:

I can't understand this sentence with my poor English skill but kindly speaking,
Yes, it's not work and I know to fix it is not easy because I tried to fix and reported it
to LLVM and sometimes it works (see my tickes and commits related to LLVM/clang).

Yui, was not my intention to say you didn't want to fix this.

It will be great if a clear statement is made in relation to clang, like:

"Don't use clang with Ruby yet, Ruby code does not compile properly under it."

So I concluded that we can't support clang now and wait it stable.
Under such circumstances, what I should say to a casual user or a bummer like you
will be "Use gcc".

The bummer was my silly attempt to make a joke, yet again, it got lost in the translation.

Of course an effort to make clang works with ruby is welcome,
and patches are also welcome.

I'm chasing a longjmp exception right now so won't be able to work on this type of things.

I'll constantly continue such effort.

And we all appreciate it.

Once again, thank you.