mkmf.rb should not use CFLAGS when compiling C++ code

mkmf.rb currently sets CXXFLAGS to include CFLAGS. It should not do this because CFLAGS are meant for C compilation only and may contain flags that cause problems with C++. If there are flags that are common to both C and C++ (such as the -I flags in the downstream bug) then these should be collected in a separate variable.

https://github.com/ruby/ruby/blob/trunk/lib/mkmf.rb#L1786

CXXFLAGS = $(CFLAGS) #{CONFIG['CXXFLAGS']}

For reference our downstream bug report that triggered this: https://bugs.gentoo.org/show_bug.cgi?id=396281

Revision 2e26edb6 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

Revision 39994 - 03/29/2013 02:09 AM - nobu (Nobuyoshi Nakada)
lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]
merge revision(s) 39994: [Backport #6504]

* lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_0_0@40291 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 40291 - 04/14/2013 02:55 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 39994: [Backport #6504]

* lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

History

#1 - 05/27/2012 07:20 PM - mame (Yusuke Endoh)
- Status changed from Open to Assigned
- Assignee set to nobu (Nobuyoshi Nakada)

#2 - 05/28/2012 11:34 AM - nobu (Nobuyoshi Nakada)
- Status changed from Assigned to Feedback

hansdegraaff (Hans de Graaff) wrote:

For reference our downstream bug report that triggered this: https://bugs.gentoo.org/show_bug.cgi?id=396281

I can't see that page because of "untrusted issuer error".

#3 - 01/26/2013 06:56 AM - drbrain (Eric Hodel)
- Subject changed from mkrf.rb should not use CFLAGS when compiling C++ code to mkmf.rb should not use CFLAGS when compiling C++ code
- Status changed from Feedback to Rejected

Since the submitter has not given access to the downstream bug report as requested I am rejecting this.

#4 - 03/29/2013 07:52 AM - postmodern (Hal Brodigan)
Visiting https://bugs.gentoo.org/ gives me "Error code: sec_error_untrusted_issuer") with Firefox 19 on Fedora 17. I can however add an exception and temporarily trust the certificate in order to view the bug report.

#5 - 03/29/2013 08:32 AM - Flameeyes (Diego Elio Pettenò)
It's not like the bug at Gentoo adds much more. It just happens to be somebody who has different CFLAGS/CXXFLAGS (like many do, for instance it's common to use -ggdb3 on C code, but not enabling it on C++ code because it requires at least an order of magnitude more ram), and gets fxruby built with the wrong set.

How much more info than this (which was provided in the original report, including the reference to the line where the mix-up is happening) do you expect? An essay on why you should not mix flags for one language with those for another? A dissertation on why any half-serious build system, including both Autotools and CMake, keep the two separate?

#6 - 03/29/2013 09:01 AM - drbrain (Eric Hodel)
- Status changed from Rejected to Assigned

#7 - 03/29/2013 11:09 AM - nobu (Nobuyoshi Nakada)
- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r39994.
Hans, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

mkmf.rb: no CFLAGS in CXXFLAGS

- lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]
#8 - 03/29/2013 11:10 AM - nobu (Nobuyoshi Nakada)
- Tracker changed from Bug to Backport
- Project changed from Ruby master to Backport200
- Status changed from Closed to Assigned
- Assignee changed from nobu (Nobuyoshi Nakada) to nagachika (Tomoyuki Chikanaga)

#9 - 04/14/2013 11:55 PM - nagachika (Tomoyuki Chikanaga)
- Status changed from Assigned to Closed

This issue was solved with changeset r40291.
Hans, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

merge revision(s) 39994: [Backport #6504]

* lib/mkmf.rb (configuration): not include all CFLAGS in CXXFLAGS, to use different set than C for C++. [ruby-core:45273] [Bug #6504]

#10 - 09/15/2014 02:05 AM - nagachika (Tomoyuki Chikanaga)
- Related to Bug #8315: mkmf does not include include paths from pkg_config anymore added