Ruby master - Feature #4924

mkmf have_header fails with C++ headers

06/24/2011 12:09 PM - adgar (Michael Edgar)

Status:	Assigned
Priority:	Normal
Assignee:	nobu (Nobuyoshi Nakada)
Target version:	

Description

=begin
When a user calls (({have_header('some_cpp_header.h')})), and then header includes a line such as(({ #include })), mkmf will fail.

An example run follows:

- extconf.rb

require 'mkmf'
have_library('stdc++')
have_header('BasicBlock.h')
create_makefile('laser/BasicBlock')

- mkmf.log have_header: checking for BasicBlock.h... -------------------- no

"gcc -E -I/Users/michaeledgar/.rvm/rubies/ruby-1.9.2-head/include/ruby-1.9.1/x86_64-darwin10.7.0
-I/Users/michaeledgar/.rvm/rubies/ruby-1.9.2-head/include/ruby-1.9.1/ruby/backward
-I/Users/michaeledgar/.rvm/rubies/ruby-1.9.2-head/include/ruby-1.9.1 -I. -D_XOPEN_SOURCE -D_DARWIN_C_SOURCE   -O3
-ggdb -Wextra -Wno-unused-parameter -Wno-parentheses -Wpointer-arith -Wwrite-strings -Wno-missing-field-initializers
-Wshorten-64-to-32 -Wno-long-long -fno-common -pipe conftest.c -o conftest.i"
In file included from conftest.c:3:
./BasicBlock.h:4:18: error: vector: No such file or directory
./BasicBlock.h:5:21: error: exception: No such file or directory
./BasicBlock.h:6:21: error: stdexcept: No such file or directory
checked program was:
/* begin /
1: #include "ruby.h"
2:
3: #include
/ end */

The issue here is that the temporary file created to perform the header test is (({%conftest.c%})), not (({%conftest.cc%})) or
(({%conftest.cpp%})). Changing the
name of the file and re-running gcc gives success.

In (({%mkmf.rb%})), have_header executes cpp_command, which creates the shell command to run. However, cpp_command uses
the constant (({CONFTEST_C = "conftest.c"})). It should use a new constant, (({CONFTEST_CPP = "conftest.cc"})).

I've attached a patch that does this as expected. Tests pass; I'm unsure precisely how to construct
a test case that would be appropriate for the Ruby trunk. There are very few guiding examples in the
existing test suite.

Related issues:

Related to Ruby master - Feature #3330: mkmf (find|have)_cxx_header	**Rejected**
Is duplicate of Ruby master - Feature #3333: mkmf (have|find)_cxx_header	**Rejected**

History

#1 - 06/24/2011 03:11 PM - nobu (Nobuyoshi Nakada)

- Tracker changed from Bug to Feature

- Priority changed from Normal to 3

#2 - 03/25/2012 04:30 PM - mame (Yusuke Endoh)

- Status changed from Open to Assigned

- Assignee set to nobu (Nobuyoshi Nakada)

#3 - 11/20/2012 09:41 PM - mame (Yusuke Endoh)

- Target version set to 2.6

#4 - 12/08/2017 01:23 PM - mame (Yusuke Endoh)

- Related to Feature #3333: mkmf (have|find)_cxx_header added

#5 - 12/08/2017 01:23 PM - mame (Yusuke Endoh)

- Related to deleted (Feature #3333: mkmf (have|find)_cxx_header)

#6 - 12/08/2017 01:23 PM - mame (Yusuke Endoh)

- Is duplicate of Feature #3333: mkmf (have|find)_cxx_header added

#7 - 12/25/2017 06:15 PM - naruse (Yui NARUSE)

- Target version deleted (2.6)