Ruby trunk - Bug #11201
pkg_config NoMethodError when finding other -config program
06/01/2015 06:48 AM - Hanmac (Hans Mackowiak)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td></td>
</tr>
<tr>
<td>Target version:</td>
<td>ruby 2.3.0dev (2015-05-28 trunk 50658) [x86_64-linux]</td>
</tr>
<tr>
<td>Backport:</td>
<td>2.0.0: WONTFIX, 2.1: DONE, 2.2: DONE</td>
</tr>
</tbody>
</table>

**Description**

where it does work (existing package)

```ruby
cfg = pkg_config("gtk+-x11-2.0")
  # => ["-pthread", "", "-lgtk-x11-2.0 -lgdk-x11-2.0 -lpangocairo-1.0 -latk-1.0 -lcairo -lgdk_pixbuf
  f-2.0 -lgio-2.0 -lpangoft2-1.0 -lpango-1.0 -lgobject-2.0 -lgdk-2.0 -lfontconfig -lfreetype"]
  pkg_config("gtk+-x11-2.0", "version") # => "0.28"
```

where it does work (non-existing package)

```ruby
cfg = pkg_config("wx-bla", "version") # => nil
  pkg_config("wx-bla") # => nil
```

where it maybe not work (other (pkg)-config program)

```ruby
cfg = pkg_config("wx", "version") # => "3.1.0"

pkg_config("wx")
  #either should try to return the same stuff as pkg_config("gtk+-x11-2.0") if possible, or if not return nil

NoMethodError: undefined method `scan' for nil:NilClass
  from /usr/local/rvm/rubies/ruby-head/lib/ruby/2.3.0/shellwords.rb:73:in `shellsplit'
  from /usr/local/rvm/rubies/ruby-head/lib/ruby/2.3.0/mkmf.rb:1819:in `pkg_config'
  from (irb):11
  from /usr/local/rvm/rubies/ruby-head/bin/irb:11:in `<main>,'
```

**Associated revisions**

Revision Sc18ffe2 - 06/01/2015 01:01 PM - nobu (Nobuyoshi Nakada)
mkmf.rb: split --libs

- lib/mkmf.rb (pkg_config): split --libs if --libs-only-l option is not available. patch in [ruby-core:69428] by Hans Mackowiak. [ruby-core:69421] [Bug #11201]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@50717 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 50717 - 06/01/2015 01:01 PM - nobu (Nobuyoshi Nakada)
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10/26/2018
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Revision f81db3c8 - 07/03/2015 09:43 AM - usa (Usaku NAKAMURA)
merge revision(s) 50717: [Backport #11201]

lib/mkmf.rb (pkg_config): split --libs if --libs-only-l option is not available. patch in [ruby-core:69428] by Hans Mackowiak. [ruby-core:69421] [Bug #11201]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_1@51123 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51123 - 07/03/2015 09:43 AM - usa (Usaku NAKAMURA)
merge revision(s) 50717: [Backport #11201]

lib/mkmf.rb (pkg_config): split --libs if --libs-only-l option is not available. patch in [ruby-core:69428] by Hans Mackowiak. [ruby-core:69421] [Bug #11201]

Revision 7b2a41d3 - 07/03/2015 08:13 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 50717: [Backport #11201]

lib/mkmf.rb (pkg_config): split --libs if --libs-only-l option is not available. patch in [ruby-core:69428] by Hans Mackowiak. [ruby-core:69421] [Bug #11201]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby_2_2@51135 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 51135 - 07/03/2015 08:13 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) 50717: [Backport #11201]

lib/mkmf.rb (pkg_config): split --libs if --libs-only-l option is not available. patch in [ruby-core:69428] by Hans Mackowiak. [ruby-core:69421] [Bug #11201]

History

#1 - 06/01/2015 08:51 AM - nobu (Nobuyoshi Nakada)
- Description updated
- Status changed from Open to Feedback

Does pkg-config --libs-only-l wx work?

#2 - 06/01/2015 09:00 AM - Hanmac (Hans Mackowiak)
wx from wxWidgets does have its own wx-config script with does have other flags than pkg-config (pkg-config in its second version can call (pkg)-config scripts)

thats why:

wx-config --libs-only-l
*** Error: Unrecognised option: '--libs-only-l'

imo it would be nice if it would have checked if that libs-only-l returns something/ a string before shellsplit does try to cut it.
i am okay with it that pkg_config("wx") might not be able to get something but imo it would be better if it does return nil instead of NoMethodError

PS: but i think it still would have been nice if it would have been able to return something meaningful.

another sample would be xml2-config from libxml2

PS: i might try to fix that on my own and then i will add a patch

10/26/2018
Thank you, does this patch work?

diff --git i/lib/mkmf.rb w/lib/mkmf.rb
index be9b06c..615e2dc 100644
--- i/lib/mkmf.rb
+++ w/lib/mkmf.rb
@@ -1818,11 +1818,15 @@ SRC
  cflags = get['cflags']
  end
 libs = get['libs-only-l']
  - ldflags = (Shellwords.shellwords(ldflags) - Shellwords.shellwords(libs)).quote.join(" ")
  - $CFLAGS += " " << cflags
  - $CXXFLAGS += " " << cflags
  + if cflags
  + $CFLAGS += " " << cflags
  + $CXXFLAGS += " " << cflags
  + end
  + if libs
  + ldflags = (Shellwords.shellwords(ldflags) - Shellwords.shellwords(libs)).quote.join(" ")
  + $libs += " " << libs
  + end
  $LDFLAGS = [orig_ldflags, ldflags].join(' ')
  - $libs += " " << libs
  Logging::message "package configuration for %s\n", pkg
  Logging::message "cflags: %\nldflags: %\nlibs: %\n\n", cflags, ldflags, libs

#4 - 06/01/2015 12:44 PM - Hannmac (Hans Mackowiak)
  - Priority changed from Normal to 3

  i try to modify your possible patch a bit,
  now it can parse the libs from the libflags again.

  makes it work with wx-config and freetype-config

diff --git a/lib/mkmf.rb b/lib/mkmf.rb
index 0f588a5..7e8b22d 100644
--- a/lib/mkmf.rb
+++ b/lib/mkmf.rb
@@ -1816,11 +1816,18 @@ SRC
  cflags = get['cflags']
  end
 libs = get['libs-only-l']
- ldflags = (Shellwords.shellwords(ldflags) - Shellwords.shellwords(libs)).quote.join(" ")
- $CFLAGS += " " << cflags
- $CXXFLAGS += " " << cflags
- $LDFLAGS = [orig_ldflags, ldflags].join(' ')
- $libs += " " << libs
+ if cflags
+ $CFLAGS += " " << cflags
+ $CXXFLAGS += " " << cflags
+ $LDFLAGS = [orig_ldflags, ldflags].join(' ')
+ $libs += " " << libs
  else
  ldflags = Shellwords.shellwords(ldflags).partition { |s| s =~ /-l([^ ]+)/}.map{|l| l.quote.join(" ") }
  end
  $libs += " " << libs
+ $LDFLAGS = [orig_ldflags, ldflags].join(' ')
  Logging::message "package configuration for %\n", pkg
  Logging::message "cflags: %\nldflags: %\nlibs: %\n\n", cflags, ldflags, libs

#5 - 06/01/2015 01:05 PM - nobu (Nobuyoshi Nakada)
  - Status changed from Feedback to Closed
mkmf.rb: split --libs

- lib/mkmf.rb (pkg_config): split --libs if --libs-only-l option is not available. patch in by Hans Mackowiak. [Bug #11201]

#6 - 06/30/2015 04:12 AM - usa (Usaku NAKAMURA)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2: UNKNOWN to 2.0.0: WONTFIX, 2.1: REQUIRED, 2.2: REQUIRED

#7 - 07/03/2015 09:45 AM - usa (Usaku NAKAMURA)
- Backport changed from 2.0.0: WONTFIX, 2.1: REQUIRED, 2.2: REQUIRED to 2.0.0: WONTFIX, 2.1: DONE, 2.2: REQUIRED

ruby_2_1 r51123 merged revision(s) 50717.

#8 - 07/03/2015 08:14 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.0.0: WONTFIX, 2.1: DONE, 2.2: REQUIRED to 2.0.0: WONTFIX, 2.1: DONE, 2.2: DONE

Backported into ruby_2_2 branch at r51135.