Hi, I am one the maintainers of Ruby in Debian, thanks a lot for adding multiarch support.

While preparing packages for Ruby 2.0, I found two issues:

1) On a x86_64 Debian system with Linux kernel, Ruby will say that the architecture is "x86_64-linux", but the standard architecture name for such a system, as used in multiarch-enabled packages, is "x86_64-linux-gnu". In order to not break other systems, I suggest adding a `--with-multiarchname` argument to `./configure` so that the Debian package can pass in the appropriate architecture name during `./configure` stage.

2) the pkg-config data also has to be installed inside multiarch paths.

I am attaching patches for both issues.
Revision 39334 - 02/20/2013 09:02 AM - nobu (Nobuyoshi Nakada)
configure.in: target_os suffix

configure.in (target_os): do not strip -gnu suffix on Linux if --target is given explicitly. [Bug #7874]

Revision 52911794 - 02/20/2013 09:02 AM - nobu (Nobuyoshi Nakada)
configure.in: target_os suffix

configure.in (target_os): do not strip -gnu suffix on Linux if --target is given explicitly. [Bug #7874]

Revision fc50b60c - 02/20/2013 12:34 PM - nobu (Nobuyoshi Nakada)

configure.in (libdirname): adjust library path name which libruby files will be installed. [Bug #7874]

Revision 39333 - 02/20/2013 09:01 AM - nobu (Nobuyoshi Nakada)

configure.in: adjust libdirname

configure.in (libdirname): adjust library path name which libruby files will be installed. [Bug #7874]
Revision 39338 - 02/20/2013 12:34 PM - nobu (Nobuyoshi Nakada)

- tool/rbinstall.rb (libdir): fix typo.  [Bug #7874]

Revision 39338 - 02/20/2013 12:34 PM - nobu (Nobuyoshi Nakada)

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Revision 39338 - 02/20/2013 12:34 PM - nobu (Nobuyoshi Nakada)

- tool/rbinstall.rb (libdir): fix typo.  [Bug #7874]

Revision 22b51faf - 02/21/2013 12:51 AM - nobu (Nobuyoshi Nakada)

configure.in: libdir_basename for -rpath and -install_name

- configure.in (libdir_basename): also -rpath and -install_name flags are affected when libruby directory changes.  [Bug #7874]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39345 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 39345 - 02/21/2013 12:51 AM - nobu (Nobuyoshi Nakada)

configure.in: libdir_basename for -rpath and -install_name

- configure.in (libdir_basename): also -rpath and -install_name flags are affected when libruby directory changes.  [Bug #7874]

Revision 39345 - 02/21/2013 12:51 AM - nobu (Nobuyoshi Nakada)

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Revision 739c8ffc - 02/21/2013 03:42 AM - nobu (Nobuyoshi Nakada)

configure.in: expand libdir_basename

- configure.in (libdir_basename): expand with multiarch in configure, not to defer the expansion till ruby.pc.in and mkmf.rb.  [Bug #7874]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39347 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 39347 - 02/21/2013 03:42 AM - nobu (Nobuyoshi Nakada)

configure.in: expand libdir_basename

- configure.in (libdir_basename): expand with multiarch in configure, not to defer the expansion till ruby.pc.in and mkmf.rb.  [Bug #7874]

Revision 39347 - 02/21/2013 03:42 AM - nobu (Nobuyoshi Nakada)

configure.in: expand libdir_basename

- configure.in (libdir_basename): expand with multiarch in configure, not to defer the expansion till ruby.pc.in and mkmf.rb.  [Bug #7874]

Revision 39347 - 02/21/2013 03:42 AM - nobu (Nobuyoshi Nakada)

configure.in: expand libdir_basename
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Revision 74016f18 - 02/21/2013 03:45 AM - nobu (Nobuyoshi Nakada)
ruby.c: fix for multiarch library

Revision 39348 - 02/21/2013 03:45 AM - nobu (Nobuyoshi Nakada)
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Revision b9ef804f - 02/22/2013 02:33 AM - nobu (Nobuyoshi Nakada)
mkmf.rb: adjust default library path

lib/mkmf.rb (Makefile#init_mkmf): adjust default library path for multiarch. [Bug #7874]
Revision 39371 - 02/22/2013 02:33 AM - nobu (Nobuyoshi Nakada)
mkmf.rb: adjust default library path
  - lib/mkmf.rb (MakeMakefile#init_mkmf): adjust default library path for multiarch. [Bug #7874]

Revision 39371 - 02/22/2013 02:33 AM - nobu (Nobuyoshi Nakada)
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Revision 36de5e4d - 05/05/2013 04:29 AM - nobu (Nobuyoshi Nakada)
ruby.pc.in: rubyarchhdrdir
  - template/ruby.pc.in (Cflags): use rubyarchhdrdir for multiarch. [Bug #7874]
git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@40580 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 40580 - 05/05/2013 04:29 AM - nobu (Nobuyoshi Nakada)
ruby.pc.in: rubyarchhdrdir
  - template/ruby.pc.in (Cflags): use rubyarchhdrdir for multiarch. [Bug #7874]

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ruby.pc.in: rubyarchhdrdir
  - template/ruby.pc.in (Cflags): use rubyarchhdrdir for multiarch. [Bug #7874]
Hi,

there is also another problem: when --enabled-shared is used, the shared libraries are not installed in the multiarch path. I am working on a patch for that.

Ad 1) You can use --host=x86_64-linux-gnu if I am not mistaken.
Ad 2) It seems to duplicate #7867

Attaching a patch that fixes the path for installing both the libraries and the pkg-config data. It supersedes 0002-Install-pkgconfig-data-to-architecture-specific-path.patch attached before.

Hello Antonio,

Doesn't Vit's comment help you?
And please attach the patch for "another issue" into the ticket #7867.

Thanks!

Yusuke Endoh mame@tsg.ne.jp

I tried --host= but it does not have any effect on the paths used in the installation. In this case we really need to use the standard architecture name for $arch.

And please attach the patch for "another issue" into the ticket #7867.

Fair enough - just did it. But note that such patch fixes #7867 and stuff I am reporting here (i.e. the install path for libraries (.so, .a) into multiarch paths.

The arch name is taken from --target option, not --host.

As for the second patch, I guess it would be:

AC_SUBST(ENABLE_MULTIARCH, ${multiarch:-no})
Note the colon.

Sorry, I'm confused a little last night. multiarch is set to an empty string or unset, so terceiro's substitution is correct.
Sorry, I don't understand the situation. Nobu, do you think that we should import terceiro's patches?

--
Yusuke Endoh mame@tsg.ne.jp

This issue was solved with changeset r39333. Antonio, thank you for reporting this issue. Your contribution to Ruby is greatly appreciated. May Ruby be with you.

configure.in: adjust libdirname

- configure.in (libdirname): adjust library path name which libruby files will be installed. [Bug #7874]
- tool/rbinstall.rb (libdir): ditto.

This issue was solved with changeset r39334. Antonio, thank you for reporting this issue. Your contribution to Ruby is greatly appreciated. May Ruby be with you.

configure.in: target_os suffix

- configure.in (target_os): do not strip -gnu suffix on Linux if --target is given explicitly. [Bug #7874]

I think r39334 fixes a longstanding bug, which ignores explicitly specified option, not only guessed name.

With the current state in trunk it does not build anymore:

$ autoreconf &.& ./configure --target=x86_64-linux-gnu --enable-multiarch
[...]
configure: creating ./config.status
config.status: creating Makefile
config.status: creating ruby-2.0.pc
Variable 'archlibdir' not defined in './ruby.tmp.pc'
<table>
<thead>
<tr>
<th>File Name</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001-Allow-setting-arch-name-in-.configure.patch</td>
<td>1.62 KB</td>
<td>02/18/2013</td>
<td>terceiro (Antonio Terceiro)</td>
</tr>
<tr>
<td>0002-Install-pkgconfig-data-to-architecture-specific-path.patch</td>
<td>827 Bytes</td>
<td>02/18/2013</td>
<td>terceiro (Antonio Terceiro)</td>
</tr>
<tr>
<td>0002-Install-libraries-and-pkg-config-data-into-multiarch.patch</td>
<td>1.4 KB</td>
<td>02/18/2013</td>
<td>terceiro (Antonio Terceiro)</td>
</tr>
</tbody>
</table>