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.

Associated revisions

Revision 67ab6e3d - 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]
- tool/rbinstall.rb (libdir): ditto.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39333 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 39333 - 02/20/2013 09:01 AM - nobu (Nobuyoshi Nakada)
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Revision 52911974 - 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]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39334 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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Revision fc50b60c - 02/20/2013 12:34 PM - nobu (Nobuyoshi Nakada)
  - tool/rbinstall.rb (libdir): fix typo. [Bug #7874]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39338 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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 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]

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)

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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)

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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)
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  * 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]

Revision 40580 - 05/05/2013 04:29 AM - nobu (Nobuyoshi Nakada)
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**History**

#1 - 02/18/2013 04:20 AM - terceiro (Antonio Terceiro)

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.

#2 - 02/18/2013 04:35 AM - vo.x (Vit Ondruch)

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

#3 - 02/18/2013 07:28 AM - terceiro (Antonio Terceiro)

- File 0002-Install-libraries-and-pkg-config-data-into-multiarch.patch added

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.

#4 - 02/18/2013 08:39 AM - ko1 (Koichi Sasada)

- Category set to build
- Assignee set to nobu (Nobuyoshi Nakada)

#5 - 02/19/2013 01:35 AM - mame (Yusuke Endoh)

Hello Antoino,

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

#6 - 02/19/2013 03:35 AM - terceiro (Antonio Terceiro)

mame (Yusuke Endoh) wrote:

Hello Antoino,

Doesn't Vit's comment help you?

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.

#7 - 02/19/2013 10:55 PM - nobu (Nobuyoshi Nakada)

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

#8 - 02/19/2013 11:19 PM - nobu (Nobuyoshi Nakada)

As for the second patch, I guess it would be:
AC_SUBST(ENABLE_MULTIARCH, ${multiarch:-no})
Note the colon.

#9 - 02/20/2013 01:14 PM - nobu (Nobuyoshi Nakada)

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.

Others are libdir concerned patches, and I think they are not stable enough to backport yet.

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

```bash
$ autoreconf &.& ./configure --target=x86_64-linux-gnu --enable-multiaarch
[...]
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>
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