

Ruby - Bug #8435

Can't build tcl/tk extensions after updating Debian/Ubuntu package

05/22/2013 10:28 PM - romulocecon (Rômulo Ceccon)

Status:	Third Party's Issue	
Priority:	Normal	
Assignee:	nagai (Hidetoshi Nagai)	
Target version:	2.1.0	
ruby -v:	ruby 2.1.0dev (2013-05-21 trunk 40883) [x86_64-linux]	Backport: 1.9.3: UNKNOWN, 2.0.0: UNKNOWN

Description

I've recently upgraded my Ubuntu system to 13.04 and tcl8.5-dev and tk8.5-dev were updated as well (to versions 8.5.13-1ubuntu and 8.5.11-2ubuntu4 respectively).

Now I can't build Tcl/Tk Ruby extensions anymore. I was able to reproduce the problem with ruby 2.0.0p195 (2013-05-14 revision 40734) [x86_64-linux] and ruby 2.1.0dev (2013-05-21 trunk 40883) [x86_64-linux].

Looking at source:/ext/tk/extconf.rb@39974#L376 I see that extconf tries to parse tclConfig.sh and tkConfig.sh, which worked nice previously when those files were ln'ed to the actual configuration files. However, after the update they look like this on my platform:

```
$ cat /usr/lib/tclConfig.sh
#!/bin/sh
. /usr/lib/`dpkg-architecture -qDEB_HOST_MULTIARCH`/tclConfig.sh
$ cat /usr/lib/tkConfig.sh
#!/bin/sh
. /usr/lib/`dpkg-architecture -qDEB_HOST_MULTIARCH`/tkConfig.sh
```

So the setup fails:

```
...
Search tclConfig.sh and tkConfig.sh.....
WARNING: found "/usr/lib/tclConfig.sh", but cannot find valid Tcl library for the tclConfig.sh. So
, ignore it.

WARNING: found "/usr/lib/tkConfig.sh", but cannot find valid Tk library for the tkConfig.sh. So, i
gnore it.
.....
Fail to find [tclConfig.sh, tkConfig.sh]
...

Full 'ruby extconf.rb' output and mkmf.log are attached.
```

History

#1 - 05/22/2013 11:03 PM - romulocecon (Rômulo Ceccon)

Workaround is to specify actual location of tcl/tk files:

```
./configure --with-tclConfig-file=/usr/lib/x86_64-linux-gnu/tclConfig.sh --with-tkConfig-file=/usr/lib/x86_64-
linux-gnu/tkConfig.sh
```

It looks like the change in the *.sh scripts intend to improve support for DEB_HOST_MULTIARCH. I don't know how prevalent the problem will be for other platforms, or what the policy is for Ruby regarding that kind of workaround.

#2 - 05/23/2013 11:42 AM - zzak (zzak _)

Seems like third party issue

#3 - 05/24/2013 10:10 AM - hsbt (Hiroshi SHIBATA)

- Category set to ext
- Assignee set to nagai (Hidetoshi Nagai)
- Target version set to 2.1.0

#4 - 05/26/2013 09:44 AM - romulocecon (Rômulo Ceccon)

A possible fix:

```
--- a/ext/tk/extconf.rb 2013-01-10 05:47:20.000000000 -0200
+++ b/ext/tk/extconf.rb 2013-05-25 21:32:54.230020034 -0300
@@ -117,6 +117,11 @@
/64|universal/ =~ RUBY_PLATFORM
end
```

```
+def multiarch_supported?
```

- `dpkg_arch = which dpkg-architecture.strip`
- `#(dpkg_arch) -qDEB_HOST_MULTIARCH.strip unless dpkg_arch.empty?`
- `+end`

```
def check_tcltk_version(version)
return [nil, nil] unless version.kind_of? String
```

```
@@ -466,7 +471,14 @@
```

```
config_dir << RbConfig::CONFIG['libdir']
```

- `((maybe_64bit?) ? ['lib64', 'lib'] : ['lib']).each{|dir|`

- `if arch = multiarch_supported?`

- `[`

- `elsif maybe_64bit?`

- `[`

- `else`

- `[`

- `end`

- `lib_dirs.each{|dir|`
`config_dir.concat [`
`File.join(RbConfig::CONFIG['exec_prefix'], dir),`
`File.join(RbConfig::CONFIG['prefix'], dir),`

#5 - 05/28/2013 12:08 AM - nobu (Nobuyoshi Nakada)

romulocecon (Romulo Ceccon) wrote:

```
+def multiarch_supported?
```

- `dpkg_arch = which dpkg-architecture.strip`
- `#(dpkg_arch) -qDEB_HOST_MULTIARCH.strip unless dpkg_arch.empty?`
- `+end`

`` returns a string, that is true value.

Possibly,

```
^S/ =~ dpkg-architecture -qDEB_HOST_MULTIARCH rescue false
?
```

#6 - 05/28/2013 02:27 AM - romulocecon (Rômulo Ceccon)

The idea is that the method would also return the architecture as a string, but return false if dpkg-architecture is not available or is of an older version (DEB_HOST_MULTIARCH unsupported). So a more comprehensive approach could be:

```
def multiarch_supported?
  cmd = `which dpkg-architecture 2>/dev/null`
  return unless $? .success?
  arch = `#{cmd.strip} -qDEB_HOST_MULTIARCH`
  arch.strip if $? .success?
end
```

#7 - 06/17/2013 02:20 PM - nagai (Hidetoshi Nagai)

- Status changed from Open to Third Party's Issue

It depends on Ubuntu packages. The patch may be able to avoid the "current" problem, but it cannot guarantee that it is available in the next version of Ubuntu.
If the policy of Ubuntu is changed, extconf.rb must check the Tcl/Tk package version of Ubuntu.
I think that it is not a good choice.
Although it may be trouble, please use configure options.

Files

mkmf.log	245 KB	05/22/2013	romulocecon (Rômulo Ceccon)
extconf.out	6 KB	05/22/2013	romulocecon (Rômulo Ceccon)