Ruby master - Bug #14144

__FILE__ displays wrong value for executables when run from project root w/Ruby 2.4.1

11/30/2017 03:11 AM - keithrbennett (Keith Bennett)

Status:	Third Party's Issue		
Priority:	Normal		
Assignee:			
Target version:			
ruby -v:	ruby 2.4.1p111 (2017-03-22 revision 58053) [x86_64-darwin16]	**Backport:**	2.3: UNKNOWN, 2.4: UNKNOWN

Description

This problem can be illustrated by using the attached tar file, or the Github repo at
https://github.com/keithrbennett/underscore_file_test.

When Ruby version == 2.4.1
and
current directory is the project root of this project
and
the gem is built and installed
and
the executable is run from the gem without preceding it with 'ruby'
and
the executable is run without specifying a directory
(i.e. as 'underscore_file_test', not 'bin/underscore_file_test')

Then (FILE below should be FILE surrounded by double underscores)

```
__FILE__ => $PROJECT_ROOT/exe/underscore_file_test
```

instead of pointing to a directory in the GEM_PATH, something like:

```
__FILE__ => /Users/kbennett/.rvm/gems/ruby-2.4.1/bin/underscore_file_test
```

This error occurred with Ruby 2.4.1 but not:

- ruby 2.0.0p648 (2015-12-16 revision 53162) [x86_64-darwin15.6.0]
- ruby 2.3.1p112 (2016-04-26 revision 54768) [x86_64-darwin16]
- ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-darwin16]
- jruby 9.1.7.0 (2.3.1) 2017-01-11 68056ae Java HotSpot(TM) 64-Bit Server VM 25.77-b03 on 1.8.0_77-b03 +jit [darwin-x86_64]

My development machine was a MacBookPro running MacOs Sierra. uname -a output is:

- Darwin MacBook-Pro-KB-13.local 16.7.0 Darwin Kernel Version 16.7.0: Wed Oct 4 00:17:00 PDT 2017; root:xnu-3789.71.6~1/RELEASE_X86_64 x86_64

Steps to Reproduce:

- Download or git clone the Github project tree, or the attached tarball.
- Change directory to the project root.
- Run: clear; gem build *gemspec && gem install *gem && underscore_file_test
- Note the directory component of the output.

If you cd somewhere else, the output will be correct,
i.e. will be located in a GEM_PATH directory.

If you run the command from the project root using a different Ruby,
it may work. I have not tested this on versions later than 2.4.1.

History

#1 - 11/30/2017 07:50 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Third Party's Issue

- Description updated

Looks like a rubygems issue.

#2 - 11/30/2017 08:17 AM - nobu (Nobuyoshi Nakada)

Although I can't reproduce the exact same result, the file under bin directory should be a wrapper script generated by rubygems.
Your script is installed in the exe directory.
It should be a spec of rubygems.

#3 - 11/30/2017 10:53 PM - keithrbennett (Keith Bennett)

Nobu, thank you for your quick attention to this issue.

The problem occurred with both directory names, exe and bin.

This appears to have been an rvm issue. When I would gem uninstall rvm's executable_hooks gem, the behavior would be correct; and when I'd reinstall it, it would be incorrect again.

I did an rvm remove 2.4.1 and then a rvm install 2.4.1 --with-openssl-dir=/usr/local/opt/openssl, and the problem disappeared.

#4 - 12/01/2017 04:34 PM - shevegen (Robert A. Heiler)

Thanks for your explanation how you resolved it - other ruby hackers may benefit from it.

#5 - 12/01/2017 09:34 PM - keithrbennett (Keith Bennett)

Thanks for that recognition. I've also put it on Stack Overflow at
https://stackoverflow.com/questions/47584283/file-pointing-to-the-wrong-file-in-ruby-2-4-1-under-rvm/47584284#47584284 for that same reason.

Files

underscore_file_test.tar.gz	29.7 KB	11/30/2017	keithrbennett (Keith Bennett)