

## Ruby - Bug #13214

### FileUtils::mkdir\_p creates additional (unrequested) directory on Cygwin

02/14/2017 12:04 PM - rovf (Ronald Fischer)

|   |  |  |
|---|--|--|
| <b>Status:</b>  | Closed   | <b>Backport:</b> 2.2: DONE, 2.3: DONE, 2.4: DONE |
| <b>Priority:</b>  | Normal   |  |
| <b>Assignee:</b>  |  |  |
| <b>Target version:</b>  |  |  |
| <b>ruby -v:</b>   | ruby 2.2.5p319 (2016-04-26 revision 54774) [x86_64-cygwin] |  |
| <b>Description</b>  |  |  |
| <p>FileUtils.mkdir(SOME_PATH) on Cygwin will create a directory ./c: in addition to SOME_PATH, if the following two conditions are met:</p> <ul style="list-style-type: none"><li>-SOME_PATH must be specified as absolute path using Windows drive letters and forward slashes as separators (so called "mixed-mode pathes" in Cygwin technology; see man cygpath).</li><li>• The parent directory of SOME_PATH does not exist.</li></ul> <p>The enclosed zip file demonstrates the problem. To run it, extract it to some directory, cd to this directory and then source the shell script file by typing</p> <pre>. mkdir_test.shell</pre> <p>This script will create a directory c:/tmp, set up everything so that the error can become evident, and then runs mkdir_test.rb. This in turn creates a directory c:/tmp/foo/bar, and shows (using File.exist?), that in addition a director ./c: has been created. If you study the Ruby code, it will be obvious what's going wrong.</p> <p>My guess is that at one point, FileUtils::mkdir needs to decide whether the path to be created is relative or absolute, and since c:/ is an absolute path only in the realm of Cygwin, but not in Unix, it creates a local directory ./c:. Note however that it does NOT create a full path ./c:/tmp/foo/bar. The requested directory <i>is</i> created as (in Windows notation) C:\TMP\FOO\BAR, as requested, and from this, I conclude, that mkdir_p is, by and large, Cygwin-aware. The error is not that the requested directory was not created, but that this mkdir_p call has created two directories, not one. Indeed, if I pass the path as</p> <pre>FileUtils.mkdir_p('/cygdrive/c/tmp/foo/bar')</pre> <p>everything goes fine.</p> <p>I can reproduce the error using the 64 Bit version of Cygwin. I don't know whether it also occurs in 32 Bit Cygwin.</p> |  |  |

#### Associated revisions

##### Revision 3261cfd88172a0ab86dcdffd4a8b0b5604970146 - 02/16/2017 08:42 AM - nobu (Nobuyoshi Nakada)

fileutils.rb: do not make root

- lib/fileutils.rb (FileUtils#mkdir\_p): no need to make root directory which should be exist and cannot be made with mkdir recent Cygwin can make a directory contains a colon. [Bug #13214]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@57640 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 3261cfd8 - 02/16/2017 08:42 AM - nobu (Nobuyoshi Nakada)

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##### Revision acc6a302e4587b58c40f4bf5c5ef6b21ba79c0e2 - 03/25/2017 06:24 PM - U.Nakamura

merge revision(s) 57640: [Backport #13214]

```
fileutils.rb: do not make root
```

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* lib/fileutils.rb (FileUtils#mkdir_p): no need to make root
  directory which should be exist and cannot be made with mkdir
  recent Cygwin can make a directory contains a colon.
[Bug #13214]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_2@58120 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision acc6a302 - 03/25/2017 06:24 PM - U.Nakamura

merge revision(s) 57640: [Backport #13214]

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#### Revision 0dc5e45028fdeeac5ae507d95f3616e9e74e7fa7 - 03/27/2017 04:57 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 57640: [Backport #13214]

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_3@58180 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 0dc5e450 - 03/27/2017 04:57 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 57640: [Backport #13214]

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_3@58180 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 0deee2020f7e455a901ffca4d28655eb386df390 - 05/09/2017 02:56 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 57640: [Backport #13214]

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_4@58631 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 0deee202 - 05/09/2017 02:56 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) 57640: [Backport #13214]

```
fileutils.rb: do not make root
```

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_4@58631 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

## History

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### #1 - 02/16/2017 08:42 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset r57640.

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### #2 - 03/23/2017 02:43 AM - usa (Usaku NAKAMURA)

- Backport changed from 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN to 2.2: REQUIRED, 2.3: REQUIRED, 2.4: REQUIRED

### #3 - 03/25/2017 06:24 PM - usa (Usaku NAKAMURA)

- Backport changed from 2.2: REQUIRED, 2.3: REQUIRED, 2.4: REQUIRED to 2.2: DONE, 2.3: REQUIRED, 2.4: REQUIRED

ruby\_2\_2 r58120 merged revision(s) 57640.

### #4 - 03/27/2017 04:57 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.2: DONE, 2.3: REQUIRED, 2.4: REQUIRED to 2.2: DONE, 2.3: DONE, 2.4: REQUIRED

ruby\_2\_3 r58180 merged revision(s) 57640.

### #5 - 05/09/2017 02:56 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.2: DONE, 2.3: DONE, 2.4: REQUIRED to 2.2: DONE, 2.3: DONE, 2.4: DONE

ruby\_2\_4 r58631 merged revision(s) 57640.

## Files

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|                      |           |            |                       |
|----------------------|-----------|------------|-----------------------|
| mkdir_error_demo.zip | 738 Bytes | 02/14/2017 | rovf (Ronald Fischer) |
|----------------------|-----------|------------|-----------------------|