

## Ruby trunk - Bug #7374

### File.expand\_path resolving to first file/dir instead of absolute path

11/17/2012 03:23 AM - mdube@arcane-technologies.com (Martin Dubé)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> luislavena (Luis Lavena)	
<b>Target version:</b> 2.0.0	
<b>ruby -v:</b> ruby 1.9.3p327 (2012-11-10) [i386-mingw32]	<b>Backport:</b>
<b>Description</b> =begin ({File.expand_path("./", "c:")}) will give "c:/\$recycle.bin" as result instead of "c:"  ({File.expand_path("./", "c:/temp")}) will give "c:/temp/" as result instead of "c:/temp"  It looks like the first directory entry is returned instead of the absolute path.  =end	
<b>Related issues:</b> Related to Backport193 - Backport #7381: File.expand_path resolving to first ... <span style="float: right;"><b>Closed</b>    <b>11/18/2012</b></span>	

#### Associated revisions

##### Revision 25058a58 - 11/16/2012 10:43 PM - luislavena (Luis Lavena)

skip long name conversion if last character is a wildcard one

- win32/file.c (replace\_to\_long\_name): skip automatic path expansion when wildcard character is used. [ruby-core:49451] [Bug #7374]
- test/ruby/test\_file\_exhaustive.rb: add a test for above.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@37692 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

##### Revision 37692 - 11/16/2012 10:43 PM - luislavena (Luis Lavena)

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#### **Revision 62855976 - 11/17/2012 12:46 PM - luislavena (Luis Lavena)**

Skip path expansion for all wildcard characters

- win32/file.c (replace\_to\_long\_name): skip expansion for all wildcard characters. [ruby-core:49451] [Bug #7374]
- test/ruby/test\_file\_exhaustive.rb: add more assertions to test.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@37700 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### **Revision 37700 - 11/17/2012 12:46 PM - luislavena (Luis Lavena)**

Skip path expansion for all wildcard characters

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- test/ruby/test\_file\_exhaustive.rb: add more assertions to test.

**Revision 55915036 - 11/17/2012 05:53 PM - luislavena (Luis Lavena)**

Swap logic around wildcard character detection

- win32/file.c (replace\_to\_long\_name): correct logic around wildcard characters detection and ensure wide-chars are used as pattern.  
[ruby-core:49451] [Bug #7374]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@37706 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision 37706 - 11/17/2012 05:53 PM - luislavena (Luis Lavena)**

Swap logic around wildcard character detection

- win32/file.c (replace\_to\_long\_name): correct logic around wildcard characters detection and ensure wide-chars are used as pattern.  
[ruby-core:49451] [Bug #7374]

**Revision 37706 - 11/17/2012 05:53 PM - luislavena (Luis Lavena)**

Swap logic around wildcard character detection

- win32/file.c (replace\_to\_long\_name): correct logic around wildcard characters detection and ensure wide-chars are used as pattern.  
[ruby-core:49451] [Bug #7374]

**Revision 37706 - 11/17/2012 05:53 PM - luislavena (Luis Lavena)**

Swap logic around wildcard character detection

- win32/file.c (replace\_to\_long\_name): correct logic around wildcard characters detection and ensure wide-chars are used as pattern.  
[ruby-core:49451] [Bug #7374]

#### Revision 37706 - 11/17/2012 05:53 PM - luislavena (Luis Lavena)

Swap logic around wildcard character detection

- win32/file.c (replace\_to\_long\_name): correct logic around wildcard characters detection and ensure wide-chars are used as pattern. [ruby-core:49451] [Bug #7374]

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#### Revision 51f64b03 - 12/11/2012 10:19 AM - usa (Usaku NAKAMURA)

merge revision(s) 37692,37700,37706: [Backport #7381]

- \* win32/file.c (replace\_to\_long\_name): skip automatic path expansion when wildcard character is used. [ruby-core:49451] [Bug #7374]
- \* test/ruby/test\_file\_exhaustive.rb: add a test for above.
- \* win32/file.c (replace\_to\_long\_name): skip expansion for all wildcard characters. [ruby-core:49451] [Bug #7374]
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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@38321 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

## History

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### #1 - 11/17/2012 03:32 AM - mdube@arcane-technologies.com (Martin Dubé)

ruby 1.9.3p194 (2012-04-20) [j386-mingw32] is working fine:

```
irb(main):002:0> File.expand_path("./", "c:/temp")  
=> "c:/temp"
```

### #2 - 11/17/2012 06:32 AM - luislavena (Luis Lavena)

- Category set to core
- Status changed from Open to Assigned
- Assignee set to h.shirosaki (Hiroshi Shirosaki)

Martin,

Can you confirm if this happen with Ruby 2.0? (trunk, you can get automated builds from RubyInstaller CI)

Shirosaki-san,

Seems that globing has been enabled?

### #3 - 11/17/2012 07:09 AM - luislavena (Luis Lavena)

- Assignee changed from h.shirosaki (Hiroshi Shirosaki) to luislavena (Luis Lavena)
- Priority changed from Normal to 5
- Target version set to 2.0.0

=begin

I can confirm this happens on both 1.9.3-p327 and trunk.

Problem seems to be related to `replace_to_long_name` which attempts to expand the last part of the path using `FindFirstFileW` (globbing), but is ignoring that it includes "\*" in the filename.

I'm checking this and adding a test for this scenario.

Thank you for your report.  
=end

**#4 - 11/17/2012 07:19 AM - mdube@arcane-technologies.com (Martin Dubé)**

luislavena (Luis Lavena) wrote:

Martin,

Can you confirm if this happen with Ruby 2.0? (trunk, you can get automated builds from RubyInstaller CI)

Shirosaki-san,

Seems that globbing has been enabled?

Yes, same problem with [r37691](#):

```
C:\ruby-2.0.0-r37691-i386-mingw32\bin>irb.bat
irb(main):001:0> File.expand_path("./**", "c:/")
=> "c:/$RECYCLE.BIN"
irb(main):002:0>
```

**#5 - 11/17/2012 07:22 AM - luislavena (Luis Lavena)**

Martin,

I'm adding tests for this, do you have any other scenario that is failing and you want to report?

It will be great if we can cover all those by a single commit.

Thank you.

**#6 - 11/17/2012 07:31 AM - mdube@arcane-technologies.com (Martin Dubé)**

=begin

No other scenario. Caught that bug trying to install a plugin to redmine 2.1.2 with ruby 1.9.3p327

Redmine then attempt to add plugins routes with the following code:

```
(([Dir.glob File.expand_path("plugins/**", Rails.root) do |plugin_dir|]))
```

Which end up enumerating only the "." directory instead of all subdirectories in ./plugins

=end

**#7 - 11/17/2012 07:43 AM - luislavena (Luis Lavena)**

- *Status changed from Assigned to Closed*

- *% Done changed from 0 to 100*

This issue was solved with changeset [r37692](#).

Martin, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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skip long name conversion if last character is a wildcard one

- win32/file.c (`replace_to_long_name`): skip automatic path expansion when wildcard character is used. [ruby-core:49451] [Bug [#7374](#)]
- test/ruby/test\_file\_exhaustive.rb: add a test for above.

**#8 - 11/17/2012 07:45 AM - luislavena (Luis Lavena)**

Martin,

I've committed some tests and a fix for this.

Automated builds will kick in soon, please check RubyInstaller CI to download binary packages.

I'll request a backport once I get confirmation this works on your end.

**#9 - 11/17/2012 10:05 AM - h.shirosaki (Hiroshi Shirosaki)**

- Status changed from Closed to Assigned

It seems if the last part of the path contains \* or ?, FindFirstFileW should not be used since FindFirstFileW expands wildcard.

Examples:

```
File.expand_path("foo/ab*c")
```

```
File.expand_path("foo/ab?c")
```

Code in file.c uses `strpbrk(s, "**?")` for that.

<https://github.com/ruby/ruby/blob/trunk/file.c#L3141>

**#10 - 11/17/2012 09:33 PM - luislavena (Luis Lavena)**

- % Done changed from 100 to 50

h.shirosaki (Hiroshi Shirosaki) wrote:

It seems if the last part of the path contains \* or ?, FindFirstFileW should not be used since FindFirstFileW expands wildcard.

Thank you Shirosaki, I did a naive fix and completely missed "?" character.

Will modify `replace_to_long_name` to check for this.

**#11 - 11/17/2012 09:46 PM - luislavena (Luis Lavena)**

- Status changed from Assigned to Closed

- % Done changed from 50 to 100

This issue was solved with changeset [r37700](#).

Martin, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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Skip path expansion for all wildcard characters

- win32/file.c (`replace_to_long_name`): skip expansion for all wildcard characters.  
[ruby-core:49451] [Bug [#7374](#)]
- test/ruby/test\_file\_exhaustive.rb: add more assertions to test.

**#12 - 11/18/2012 12:55 AM - luislavena (Luis Lavena)**

- Status changed from Closed to Assigned

- % Done changed from 100 to 90

=begin

Sorry for the noise, but seems I've a Webrick failure caused by this that didn't catch when sent [r37700](#) in.

```
test_short_filename(WEBrick::TestFileHandler) [C:/Users/Worker/Jenkins/workspace/ruby-trunk-x86-build/test/webrick/test_filehandler.rb:240]:
```

```
webrick log start:
```

```
[2012-11-17 12:49:00] INFO WEBrick 1.3.1
```

```
[2012-11-17 12:49:00] INFO ruby 2.0.0 (2012-11-17) [i386-mingw32]
```

```
[2012-11-17 12:49:00] INFO WEBrick::HTTPServer#start: pid=14444 port=62527
```

```
[2012-11-17 12:49:00] WARN the request refers nondisclosure name .htaccess'.
```

```
[2012-11-17 12:49:00] ERROR/.htaccess' not found.
```

```
webrick log end.
```

```
<"404"> expected but was
```

<"200">.

Looking into this right now.  
=end

**#13 - 11/18/2012 02:53 AM - luislavena (Luis Lavena)**

- *Status changed from Assigned to Closed*
- *% Done changed from 90 to 100*

This issue was solved with changeset [r37706](#).  
Martin, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

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Swap logic around wildcard character detection

- win32/file.c (replace\_to\_long\_name): correct logic around wildcard characters detection and ensure wide-chars are used as pattern.  
[ruby-core:49451] [Bug [#7374](#)]

**#14 - 11/18/2012 03:04 AM - luislavena (Luis Lavena)**

Martin, Hiroshi,

This should be finally fixed by [r37706](#), sorry for all the inconveniences!

(note to myself: don't commit to Ruby on during night, even less on friday).