

Ruby master - Feature #5994

Dir.glob without wildcards returns pattern, not filename

02/10/2012 12:52 PM - daz (Dave B)

Status:	Closed
Priority:	Normal
Assignee:	nobu (Nobuyoshi Nakada)
Target version:	2.2.0

Description

This is Windows specific, I guess, as filename case doesn't matter there. Ruby version is not specific to 1.9.3p0 (ruby 1.8.7p334 gives the same). The script below produces results that seem inconsistent. Using special characters (wildcards) in the glob pattern returns the actual filename on disk but a plain pattern (no wildcards) returns the pattern itself. This means I have to use another method for producing a file with the same name or else override the users case-style preference (which is not my intention).

daz

```
#=====
puts 'ruby %sp%d (%s) [%s]' % [RUBY_VERSION, RUBY_PATCHLEVEL, RUBY_RELEASE_DATE, RUBY_PLATFORM]
# ruby 1.9.3p0 (2011-10-30) [i386-mingw32]

Dir.chdir ENV['TEMP']
TMPDIR = Time.now.strftime('%Y%m%d_%H%M%S_delete')
Dir.mkdir(TMPDIR)
Dir.chdir(TMPDIR)

TMPFN = 'Foo'
File.open(TMPFN, 'w') {}

#-----
p Dir.glob('*') #=> ["Foo"] ok
p Dir.glob('f?O') #=> ["Foo"] ok

# But a glob without special characters returns
# the glob pattern instead of the filename
p Dir.glob('foO') #=> ["foO"] not wanted
p Dir['foO'] #=> ["foO"] same as above
p Dir.glob('foO', File::FNM_CASEFOLD)
# casefold ignored, as docs say
#-----

File.delete(TMPFN)
Dir.delete(File.join '..', TMPDIR))

#+++++
# Same incorrect results from:
# ruby 1.8.7p334 (2011-02-18) [i386-mingw32]
```

Related issues:

Related to Ruby master - Bug #10015: Performance regression in Dir#[]

Closed

Associated revisions

Revision 0f9da422 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44796 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 44796 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44796 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44796 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44796 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44796 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44796 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 859ae776 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
[Feature #5994]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44801 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 44801 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
[Feature #5994]
```

Revision 44801 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
[Feature #5994]
```

Revision 44801 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
```

[Feature #5994]

Revision 44801 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
[Feature #5994]
```

Revision 44801 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
[Feature #5994]
```

Revision 44801 - 02/04/2014 03:19 AM - naruse (Yui NARUSE)

Revert "dir.c: glob cases on case-insensitive system"

This reverts commit r44796.

```
* dir.c (glob_helper): return the filename with actual cases on
the filesystem if it is case-insensitive. [ruby-core:42469]
[Feature #5994]
```

Revision 5b92c0be - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44802 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 44802 - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

Revision 44802 - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

Revision 44802 - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

Revision 44802 - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

Revision 44802 - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

Revision 44802 - 02/04/2014 03:45 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_make_pattern): all alphabets are magic characters on case-insensitive filesystems. [ruby-core:42469] [Feature #5994]

Revision 8d9b300a - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@44807 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 44807 - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44807 - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44807 - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44807 - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44807 - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

Revision 44807 - 02/04/2014 08:20 AM - nobu (Nobuyoshi Nakada)

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature #5994]

History

#1 - 02/10/2012 01:23 PM - daz (Dave B)

This *nix behaviour would be fine, for me.

```
# ruby 1.8.7p302 (2010-08-16) [i486-linux]
#-----
p Dir.glob('*')           #=> ["Foo"]  ok
p Dir.glob('f?O')        #=> []      ok
p Dir.glob('foO')        #=> []      ok
p Dir.glob('foO', File::FNM_CASEFOLD) #=> ["Foo"] ok
#-----
```

(Couldn't find an ENV[TEMP] .. used ENV[HOME])

daz

#2 - 02/10/2012 03:31 PM - nobu (Nobuyoshi Nakada)

- Category set to core

- Status changed from Open to Feedback

- Target version set to 2.0.0

Dave B wrote:

```
p Dir.glob('foO') #=> ["foO"] not wanted
```

What do you want, an empty array same as case-sensitive systems?

#3 - 02/10/2012 04:27 PM - daz (Dave B)

Hi Nobu,

I expected:

```
p Dir.glob('foO') #=> ["Foo"]
```

The current behaviour would be difficult to justify.

The doc string says ...

"Returns the filenames found by expanding *pattern* ..."

There is no filename "foO"; it exists only as a glob pattern.

Instead of answering the question "Are there files which match this pattern", it has answered an artificial question "What glob pattern did I use to search for files"; I already knew the answer to that. ;)

Background:

I'm doing a Windows System Restore from Linux and the registry databases are not things I want to make subtle changes to.

```
WINDIR = '/media/XYSRES/WINDOWS'  
CONFIG = File.join( WINDIR, 'system32', 'config' )  
Dir.chdir CONFIG
```

```
hives = %w{ system software sam security default }
```

```
# Can't do this ...
```

```
p HIVES_NO = hives.map { |vn| Dir[vn][0] }  
#=> ["system", "software", "sam", "security", "default"]
```

```
# Have to do this, instead ...
```

```
p HIVES_OK = Dir['*'].delete_if { |fn| !hives.include?(fn.downcase) }  
#=> ["default", "SAM", "SECURITY", "software", "system"]
```

Cheers,

daz

#4 - 10/27/2012 09:27 AM - ko1 (Koichi Sasada)

- Status changed from Feedback to Assigned

- Assignee set to nobu (Nobuyoshi Nakada)

nobu, could you reply to it?

#5 - 12/01/2012 06:22 PM - nobu (Nobuyoshi Nakada)

- Tracker changed from Bug to Feature

#6 - 02/24/2013 09:23 PM - ko1 (Koichi Sasada)

- Target version changed from 2.0.0 to 2.1.0

ping -> nobu

#7 - 01/30/2014 06:16 AM - hsbt (Hiroshi SHIBATA)

- Target version changed from 2.1.0 to 2.2.0

#8 - 02/03/2014 01:49 AM - nobu (Nobuyoshi Nakada)

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

Applied in changeset r44796.

dir.c: glob cases on case-insensitive system

- dir.c (glob_helper): return the filename with actual cases on the filesystem if it is case-insensitive. [ruby-core:42469] [Feature [#5994](#)]

#9 - 05/30/2014 02:36 PM - nobu (Nobuyoshi Nakada)

- Description updated

#10 - 04/07/2016 03:58 AM - nobu (Nobuyoshi Nakada)

- Related to Bug #10015: Performance regression in Dir#[] added