Dir.glob regression with braces and Windows drive letters

I noticed that certain glob patterns involving braces and drive letters, which did work in Ruby 2.5.3, no longer work in Ruby 2.6.1.

Assume I have a directory C:\Projects and my current directory is C:\Windows. Using IRB I can observe the following results of Dir.glob:

Patterns working in 2.6.1 and 2.5.3:

-Dir['c:] => ['c:']
-Dir['c:/'] => ['c:/']
-Dir['c:/projects'] => ['c:/Projects']

Patterns broken in 2.6.1 (but working in 2.5.3)

-Dir['{c:}'] => ['Windows']
-Dir['{c:/}'] => ['Windows/']
-Dir['{c:/projects}'] => []

Some background:
I noticed this problem first in Rails, where the file modification watcher tries to glob a pattern like
{c:/dir1/**/*.{rb},c:/dir2/**/*.{rb},c:/dir3/**/*.{rb}}
Due to the bug above, the code reloading feature of Rails is broken using Ruby 2.6.1 on Windows. (Because the pattern is always resolved to an empty array)

Rubies tested:
- ruby 2.5.3p105 (2018-10-18 revision 65156) [x64-mingw32]
- ruby 2.6.1p33 (2019-01-30 revision 66950) [x64-mingw32]
Revision 67353 - 03/28/2019 03:28 AM - naruse (Yui NARUSE)
merge revision(s) 67332: [Backport #15649]
dir.c: fix Dir.glob starts with brace

* dir.c (ruby_glob0): expand braces if a glob pattern starts with brace.
  [ruby-core:91728] [Bug #15649]

History

#1 - 03/14/2019 07:30 AM - cfis (Charlie Savage)
Seeing the same here. Seems like its the braces that are broken on Windows in Ruby 2.6. Rails autoloading feature combines a number of glob patterns into a string for reason, instead of passing in an array.
https://github.com/rails/rails/blob/25620f91ca0ab261fbc883763040ec58d205514e/activesupport/lib/active_support/file_update_checker.rb#L143
Note I also submitted to Rails - https://github.com/rails/rails/issues/35609.

#2 - 03/20/2019 01:35 AM - h.shirosaki (Hiroshi Shirosaki)
- Backport changed from 2.4: UNKNOWN, 2.5: UNKNOWN, 2.6: UNKNOWN to 2.4: DONTNEED, 2.5: DONTNEED, 2.6: REQUIRED
- File 0001-dir.c-fix-Dir.glob-starts-with-brace.patch added

I created a patch for the bug.

#3 - 03/21/2019 01:32 PM - Anonymous
- Status changed from Open to Closed

Applied in changeset trunk|r67332.

dir.c: fix Dir.glob starts with brace

  * dir.c (ruby_glob0): expand braces if a glob pattern starts with brace. [ruby-core:91728] [Bug #15649]

#4 - 03/30/2019 02:06 PM - naruse (Yui NARUSE)
- Backport changed from 2.4: DONTNEED, 2.5: DONTNEED, 2.6: REQUIRED to 2.4: DONTNEED, 2.5: DONTNEED, 2.6: DONE

ruby_2_6 r67353 merged revision(s) 67332.

Files

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<td>0001-dir.c-fix-Dir.glob-starts-with-brace.patch</td>
<td>2.46 KB</td>
<td>03/20/2019</td>
<td>h.shirosaki (Hiroshi Shirosaki)</td>
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