

## Ruby master - Bug #15417

### Pathname case insensitive comparison

12/15/2018 04:35 AM - ioquatix (Samuel Williams)

<b>Status:</b> Open	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b>	<b>Backport:</b> 2.4: UNKNOWN, 2.5: UNKNOWN
<b>Description</b>	
<p>While fixing some issues with Pathname, I noticed the following comparison:</p> <pre>SAME_PATHS = if File::FNM_SYSCASE.nonzero?   # Avoid #zero? here because #casecmp can return nil.   proc { a, b  a.casecmp(b) == 0} else   proc { a, b  a == b} end</pre>	
<p>Firstly, this seems wrong to me because case sensitivity is per-mount not a global state for the entire system.</p>	
<p>Secondly, it concerns me because sometimes this becomes security bug, e.g. path may or may not be the same, and could slip through some sanity check (e.g. git could checkout files to .git directory with case insensitive file system).</p>	
<p>Unless string match exactly, we should leave it to file system to determine if the path is equivalent or not (e.g. in the case of Pathname#relative_path_from). Trying to be too clever might cause future pain.</p>	