

## Ruby master - Misc #12474

### Wishlist for Windows Unix compatibility features

06/09/2016 08:37 AM - naruse (Yui NARUSE)

<b>Status:</b>	Third Party's Issue
<b>Priority:</b>	Normal
<b>Assignee:</b>	
<b>Description</b>	
<b>fork(2)</b>	
Windows already has related features like CreateProcess, but for servers and workers fork is required for source code compatibility of existing scripts, which are written for Unix.	
<b>nonblocking IO</b>	
<ul style="list-style-type: none"><li>• To check socket's availability by IO#read_nonblock <a href="https://github.com/ruby/ruby/pull/1089">https://github.com/ruby/ruby/pull/1089</a></li><li>• O_NONBLOCK</li></ul>	
<b>Signal</b>	
Windows doesn't support true Signal. <a href="https://msdn.microsoft.com/en-us/library/xdkz3x12.aspx">https://msdn.microsoft.com/en-us/library/xdkz3x12.aspx</a>	
<b>tz</b>	
Get IANA timezone name of current timezone from OS.	
<b>Remove a file which is opened by another process</b>	
If the process opens the file with CreateFile with FILE_SHARE_DELETE flag, another process can remove the file. But in that case processes can't remove its parent folder. <a href="https://bugs.ruby-lang.org/issues/11218">https://bugs.ruby-lang.org/issues/11218</a>	
<b>symlink</b>	
Windows has mklink and SeCreateSymbolicLinkPrivilege, but it has some limitations. <a href="http://k-takata.o.oo7.jp/diary/2013-04.html#03">http://k-takata.o.oo7.jp/diary/2013-04.html#03</a> <a href="https://twitter.com/n0kada/status/570232516545638400">https://twitter.com/n0kada/status/570232516545638400</a>	
<b>fd</b>	
<b>Generic handling of file, pipe, socket by fd</b>	
<b>fd passing to child process other than 0,1,2</b>	
<b>Get access mode from fd/HANDLE</b>	
<b>System side append mode</b>	
<b>a high performance selector API</b>	
<a href="https://tonyarcieri.com/a-gentle-introduction-to-nio4r">https://tonyarcieri.com/a-gentle-introduction-to-nio4r</a>	
<b>socket</b>	
CloseHandle should work with socket.	
<b>writev(2)</b>	

<https://twitter.com/okuoku/status/670212493134852097>

<https://msdn.microsoft.com/ja-jp/library/windows/desktop/aa365749%28v=vs.85%29.aspx>

## ANSI color code

<http://srad.jp/story/16/02/09/0639223/>

## UNIXSocket

We can emulate UNIXSocket with named pipe?

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### History

**#1 - 06/09/2016 01:16 PM - k\_takata (Ken Takata)**

<http://homepage3.nifty.com/k-takata/diary/2013-04.html#03>

This page was moved to:

<http://k-takata.o.o7.jp/diary/2013-04.html#03>

**#2 - 06/09/2016 06:11 PM - naruse (Yui NARUSE)**

- Description updated

This page was moved

Thank! fixed.

**#3 - 06/10/2016 01:27 PM - nobu (Nobuyoshi Nakada)**

- Description updated

**#4 - 07/12/2016 05:11 PM - naruse (Yui NARUSE)**

- Description updated

**#5 - 05/25/2018 08:48 PM - emk (Masatoshi Kimura)**

Remove a file which is opened by another process

Fall Creators Update added FILE\_DISPOSITION\_POSIX\_SEMANTICS.

[https://docs.microsoft.com/en-us/windows-hardware/drivers/ddi/content/ntddk/ns-ntddk-file\\_disposition\\_information\\_ex](https://docs.microsoft.com/en-us/windows-hardware/drivers/ddi/content/ntddk/ns-ntddk-file_disposition_information_ex)

UNIXSocket

April 2018 Update added AF\_UNIX sockets.

[https://blogs.msdn.microsoft.com/commandline/2018/02/07/windowswsl-interop-with-af\\_unix/](https://blogs.msdn.microsoft.com/commandline/2018/02/07/windowswsl-interop-with-af_unix/)

Just FYI, I did not test them.

**#6 - 08/17/2018 06:54 AM - naruse (Yui NARUSE)**

- Description updated