

Ruby - Bug #17626

FileUtils.cp may cause utime_failed

02/13/2021 11:48 AM - agate-pris (agate pris)

Status:	Closed	
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	ruby 3.0.0p0 (2020-12-25 revision 95aff21468) [x64-mingw32]	Backport: 2.5: DONTNEED, 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONE
Description FileUtils.cp will cause utime_failed if the file name contains Japanese characters and preserve is true. This will probably only happen on Windows. It occurs on Windows 10 version 2004 build 21301.1010. <pre>require 'fileutils'</pre> <pre>FileUtils.cp('foo', 'foo_copy', preserve: true) FileUtils.cp('foo', 'foo', preserve: true)</pre> <pre>\$ ruby test.rb C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:1424:in `utime ': No such file or directory @ utime_failed - foo (Errno::ENOENT)     from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:1424:in `copy_metadata' from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:515:in `copy_file'     from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:433:in `block in cp' from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:1597:in `block in fu_each_src_dest'     from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:1613:in `fu_each_src_dest0' from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:1595:in `fu_each_src_dest'     from C:/tools/ruby30/lib/ruby/3.0.0/fileutils.rb:432:in `cp' from test.rb:4:in `<main>'</pre> The expected result is copy to foo is success same like copy to foo_copy.		

Associated revisions

Revision a681c484a3c5b9235c84bc5c253b4406e498e8cf - 02/14/2021 10:44 AM - xtkoba (Tee KOBAYASHI)

Fixed codepage for utime [Bug #17626]

Should use the given codepage argument.

Co-Authored-By: Nobuyoshi Nakada nobu@ruby-lang.org

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Revision 551f1236a43ad014522d120dea1f136052879c0a - 02/16/2021 04:16 AM - naruse (Yui NARUSE)

merge revision(s) a681c484a3c5b9235c84bc5c253b4406e498e8cf: [Backport #17626]

```
Fixed codepage for utime [Bug #17626]
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Should use the given codepage argument.

```
Co-Authored-By: Nobuyoshi Nakada <nobu@ruby-lang.org>
---
test/ruby/test_file_exhaustive.rb | 7 ++++++
win32/win32.c                     | 2 +-
2 files changed, 8 insertions(+), 1 deletion(-)
```

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History

#1 - 02/13/2021 01:25 PM - xtkoba (Tee KOBAYASHI)

I compiled the following code by x86_64-w64-mingw32-gcc:

```
/* -*- coding: utf-8 -*- */
#include <stdio.h>
void touch(char *path) {
    FILE *file = fopen(path, "a");
    if (file != NULL) fclose(file);
}
int main() {
    touch("foo");
    return 0;
}
```

and when I ran the output executable on Windows 10, I got a file with a funny name:

```
$ echo -n foo* | hexdump -C
00000000  66 6f 6f c3 a3 e2 80 9a  c2 b3 c3 a3 c6 92 e2 80  |foo.....|
00000010  9d c3 a3 c6 92 c2 bc                |.....|
00000017
```

When I ran the following Ruby script in the directory where the funny file exists, then I got no errors:

```
# -*- coding: utf-8 -*-
File.utime 0, 0, "foo"
```

I cannot summarize this phenomenon, but I think it has something to do with the main issue.

#2 - 02/14/2021 02:29 AM - xtkoba (Tee KOBAYASHI)

- File *ruby-w32_utimensat.patch* added

I have found a solution to this issue. See the attached patch.

BTW I didn't know that special functions must be used to handle non-ASCII filenames with MinGW.

#3 - 02/14/2021 10:41 AM - nobu (Nobuyoshi Nakada)

- Backport changed from 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN to 2.5: DONTNEED, 2.6: DONTNEED, 2.7: DONTNEED, 3.0: REQUIRED

#4 - 02/14/2021 10:46 AM - xtkoba (Tee KOBAYASHI)

- Status changed from Open to Closed

Applied in changeset [git|a681c484a3c5b9235c84bc5c253b4406e498e8cf](#).

Fixed codepage for utime [Bug [#17626](#)]

Should use the given codepage argument.

Co-Authored-By: Nobuyoshi Nakada nobu@ruby-lang.org

#5 - 02/14/2021 12:07 PM - agate-pris (agate pris)

Thank you very much!

#6 - 02/16/2021 04:17 AM - naruse (Yui NARUSE)

- Backport changed from 2.5: DONTNEED, 2.6: DONTNEED, 2.7: DONTNEED, 3.0: REQUIRED to 2.5: DONTNEED, 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONE

ruby_3_0 551f1236a43ad014522d120dea1f136052879c0a merged revision(s) a681c484a3c5b9235c84bc5c253b4406e498e8cf.

Files

ruby-w32_utimensat.patch	326 Bytes	02/14/2021	xtkoba (Tee KOBAYASHI)
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