

Ruby master - Feature #11258

add 'x' mode character for O_EXCL

06/13/2015 01:06 PM - cremno (cremno phobia)

Status:	Closed
Priority:	Normal
Assignee:	znz (Kazuhiro NISHIYAMA)
Target version:	
Description	
I just saw #11253 which contains: But some modes has only integer form like O_CLOEXEC, O_EXCL. However C11 added x to open a file for exclusive access. It's also supported by Python. http://port70.net/~nsz/c/c11/n1570.html#7.21.5.3p5 https://docs.python.org/3.3/library/functions.html#open	
Related issues:	
Has duplicate Ruby master - Feature #14007: open mode 'x' to raise error if f...	Closed

Associated revisions

Revision 842b7359 - 08/09/2018 08:49 AM - kazu

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[Feature #11258]
Patch by cremno (cremno phobia)

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@64245 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 64245 - 08/09/2018 08:49 AM - znz (Kazuhiro NISHIYAMA)

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Patch by cremno (cremno phobia)

Revision 64245 - 08/09/2018 08:49 AM - kazu

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History

#1 - 06/16/2015 07:46 PM - cremno (cremno phobia)

- File `excl_mode_v1.diff` added

Here is a preliminary patch that passes make test-all (except for some RubyGems/SSL tests) on a glibc-based Linux (but I think some less common code might not work anymore on Windows and other platforms that don't implement x but validate the mode string). Also `rb_io_oflags_modestr()` didn't differentiate between `w+` and `r+` before - was that intended?

#2 - 06/16/2015 07:58 PM - normalperson (Eric Wong)

cremno@mail.ru wrote:

Issue [#11258](#) has been updated by cremno phobia.

File `excl_mode_v1.diff` added

Here is a preliminary patch that passes make test-all (except for some RubyGems/SSL tests) on a glibc-based Linux (but I think some less common code might not work anymore on Windows and other platforms that don't implement x but validate the mode string).

Haven't tested, but I like this feature for consistency with glibc and Python.

Also `rb_io_oflags_modestr()` didn't differentiate between `w+` and `r+` before - was that intended?

I hope not, but it may also be too late to change without breaking existing code and causing major data loss...

#3 - 06/16/2015 08:58 PM - normalperson (Eric Wong)

Eric Wong normalperson@yhbt.net wrote:

cremno@mail.ru wrote:

Also `rb_io_oflags_modestr()` didn't differentiate between `w+` and `r+` before - was that intended?

I hope not, but it may also be too late to change without breaking existing code and causing major data loss...

Scratch that. I misremembered what `rb_io_oflags_modestr` did :x

#4 - 06/17/2015 04:16 AM - nobu (Nobuyoshi Nakada)

```
+#define MODE_BINARY_EXCL(a,b,c,d) \
+ ((oflags & O_EXCL) ? MODE_BINARY(d, c) : MODE_BINARY(b, a))
```

'a', 'b' and 'c', 'd' are inverted?

#5 - 07/28/2015 07:35 AM - matz (Yukihiro Matsumoto)

It looks good to me.

Matz.

#6 - 07/29/2015 06:43 PM - cremno (cremno phobia)

- *File `excl_mode_v2.diff` added*

Nobuyoshi Nakada wrote:

```
+#define MODE_BINARY_EXCL(a,b,c,d) \
+ ((oflags & O_EXCL) ? MODE_BINARY(d, c) : MODE_BINARY(b, a))
```

'a', 'b' and 'c', 'd' are inverted?

Yes, `MODE_BINARY` confused me (it uses its arguments in reverse order). I think `MODE_BINARY_EXCL` is a bad idea anyway. In V2 an `ArgumentError` is raised by `rb_io_oflags_modestr()` when `O_EXCL` is set. This also affects the related flags: `File::EXCL` feature. `$stdout.reopen('stdout', 'w', flags: File::EXCL)` does now raise as it should since `freopen()` might not support `x` which could cause the truncation of an existing file! That might not be the best solution though.

V2 also contains documentation and a news entry.

#7 - 10/13/2017 12:50 AM - shyouhei (Shyouhei Urabe)

- *Has duplicate Feature #14007: `open mode 'x' to raise error if file exists` added*

#8 - 08/09/2018 06:11 AM - ko1 (Koichi Sasada)

- *Assignee set to `znz` (Kazuhiro NISHIYAMA)*

#9 - 08/09/2018 08:49 AM - znz (Kazuhiro NISHIYAMA)

- *Status changed from Open to Closed*

Applied in changeset [trunk|r64245](#).

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[Feature [#11258](#)]

Patch by cremno (cremno phobia)

Files

excl_mode_v1.diff	3.46 KB	06/16/2015	cremno (cremno phobia)
excl_mode_v2.diff	4.41 KB	07/29/2015	cremno (cremno phobia)