

Ruby master - Bug #9944

in ruby for windows in "system" a redirection to append a file works incorrectly

06/14/2014 12:41 PM - bdimych (Dmitry Bolshakov)

Status: Assigned	
Priority: Normal	
Assignee: cruby-windows	
Target version:	
ruby -v: ruby 2.0.0p481 (2014-05-08) [i386-mingw32]	Backport: 2.0.0: REQUIRED, 2.1: REQUIRED
Description	
<pre>c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych>C:\Ruby200\bin\ruby.exe -v ruby 2.0.0p481 (2014-05-08) [i386-mingw32] c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych>(echo first line & echo second line & echo third line) > test.txt c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych>type test.txt first line second line third line c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych>C:\Ruby200\bin\ruby.exe -e "system 'cmd', '/c', 'echo', 'blabla', :out => ['test.txt', 'a']" c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych>type test.txt blabla ne second line third line c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych> c:\Users\bdimych></pre>	
ruby writes "blabla" in the beginning instead of appending	
windows 7 64	

History

#1 - 06/15/2014 10:13 AM - phasis68 (Heesob Park)

If this is a Windows specific issue, here is a patch:

```
diff --git a/process.c b/process.c
index e626542..05bb79c 100644
```

```

--- a/process.c
+++ b/process.c
@@ -2767,6 +2767,11 @@ run_exec_open(VALUE ary, struct rb_execarg *sargp, char *errmsg, size_t errmsg_b
        ERRMSG("dup2");
        return -1;
    }
+#ifdef _WIN32
+    if (flags & O_APPEND) {
+        lseek(fd, 0L, SEEK_END);
+    }
+#endif
        rb_update_max_fd(fd);
    }
    i++;

```

#2 - 06/16/2014 07:05 AM - nobu (Nobuyoshi Nakada)

- Description updated
- Category set to platform/windows
- Status changed from Open to Assigned
- Assignee set to cruby-windows
- Target version set to 2.2.0
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: REQUIRED, 2.1: REQUIRED

Yes, it is Windows specific, because O_APPEND is not supported by the system, but implemented in runtime libraries. And "appending" and "seeking to the end at first" are not same.

This is a known issue, as commented in test/ruby/test_process.rb:test_execopts_redirect,

```

if windows?
  # currently telling to child the file modes is not supported.

```

It is impossible to emulate it completely with multi-process, without the system support. For example,

```
$ echo foobar > t; ruby -e 'system("cat", in:["t", "a+"])'
```

should show "foobar" now including Windows, but it will be empty with your patch.

Let us consider...

#3 - 01/05/2018 09:00 PM - naruse (Yui NARUSE)

- Target version deleted (2.2.0)