

Ruby master - Bug #8004

spawn does not honor its passed PATH

03/02/2013 08:19 PM - josh.cheek (Josh Cheek)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.0.0p0 (2013-02-24 revision 39474) [x86_64-darwin12.2.0]	Backport: 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN
Description	
<pre>#!/bin/sh # make an executable echo '#!/usr/bin/env ruby' > my_bin echo 'puts "omg"' >> my_bin chmod +x my_bin # run it in 1.9 ruby1.9 -v # >> ruby 1.9.3p327 (2012-11-10 revision 37606) [x86_64-darwin12.2.0] ruby1.9 -r open3 -e 'p Open3.capture3({"PATH" => ".*#{ENV["PATH"]}"}, "my_bin")' # >> ["omg\n", "", #<Process::Status: pid 30556 exit 0>] # run it in 2.0 ruby2 -v # >> ruby 2.0.0p0 (2013-02-24 revision 39474) [x86_64-darwin12.2.0] ruby2 -r open3 -e 'p Open3.capture3({"PATH" => ".*#{ENV["PATH"]}"}, "my_bin")' # >> /Users/joshcheek/.rbenv/versions/2.0.0-p0/lib/ruby/2.0.0/open3.rb:211:in `spawn': No such file or directory - my_bin (Errno::ENOENT) # >> from /Users/joshcheek/.rbenv/versions/2.0.0-p0/lib/ruby/2.0.0/open3.rb:211:in `popen_ru n' # >> from /Users/joshcheek/.rbenv/versions/2.0.0-p0/lib/ruby/2.0.0/open3.rb:99:in `popen3' # >> from /Users/joshcheek/.rbenv/versions/2.0.0-p0/lib/ruby/2.0.0/open3.rb:279:in `capture3' # >> from -e:1:in `<main>' # the above fails, but this one works ruby2 -r open3 -e 'ENV["PATH"] = ".*#{ENV["PATH"]}"; p Open3.capture3("my_bin")' # >> ["omg\n", "", #<Process::Status: pid 30556 exit 0>] # it is setting the path, though, so idk what the problem is ruby2 -r open3 -e 'p Open3.capture3({"PATH" => ".*#{ENV["PATH"]}"}, "echo \$PATH")' # >> [".:/Users/joshcheek/.rbenv/shims: ...</main></pre>	

Associated revisions

Revision 4b7fd61a - 11/06/2016 12:58 AM - nobu (Nobuyoshi Nakada)

process.c: PATH env in spawn

- process.c (rb_exec_fillarg): honor the given path environment variable. [ruby-core:53103] [Bug #8004]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@56618 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 03/02/2013 09:04 PM - josh.cheek (Josh Cheek)

Did some more digging, it seems to be a bug in Process.spawn:

```
#!/bin/sh
```

```
cat script.rb
# >> File.write 'my_bin', 'echo "WORKS"'
# >> File.chmod 0755, 'my_bin'
# >>
# >> puts "CWD: #{Dir.pwd}"
# >> Process.spawn({'PATH' => ".:#{ENV['PATH']}"}, 'my_bin')
```

```
ruby1.9 -v
# >> ruby 1.9.3p327 (2012-11-10 revision 37606) [x86_64-darwin12.2.0]
ruby1.9 script.rb
# >> CWD: /Users/joshcheek/deleteme/ruby2-bug-test
# >> WORKS
```

```
ruby2 -v
# >> ruby 2.0.0p0 (2013-02-24 revision 39474) [x86_64-darwin12.2.0]
```

```
ruby2 script.rb
# >> CWD: /Users/joshcheek/deleteme/ruby2-bug-test
# >> script.rb:5:in `spawn': No such file or directory - my_bin (Errno::ENOENT)
# >> from script.rb:5:in `'
```

#2 - 11/01/2016 10:03 PM - josh.cheek (Josh Cheek)

On my computer, the reason for this is:

It should have found the path here: <https://github.com/ruby/ruby/blob/c7e99cbfc8dea00ffa5d0a286ea484e90e789df4/process.c#L2193>

But notice the second argument, 0, which causes `dln_find_exe_r` to look at the environment variables to get the PATH, and thus the PATH that is set in `eargp` is not used.

#3 - 11/02/2016 02:46 AM - shyouhei (Shyouhei Urabe)

- Subject changed from *Open3 not finding binaries when PATH env var is passed as first arg to spawn does not honor its passed PATH*

#4 - 11/06/2016 12:58 AM - nobu (Nobuyoshi Nakada)

- Status changed from *Open* to *Closed*

Applied in changeset r56618.

process.c: PATH env in spawn

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#5 - 11/06/2016 02:19 AM - nobu (Nobuyoshi Nakada)

- Description updated