

Ruby - Bug #18472

rb_w32_map_errno is not found on Ruby-3.1.0

01/11/2022 02:11 PM - joker1007 (Tomohiro Hashidate)

Status: Closed		
Priority: Normal		
Assignee:		
Target version:		
ruby -v:	ruby 3.1.0p0 (2021-12-25 revision fb4df44d16) [x64-mingw-ucrt]	Backport: 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN, 3.1: UNKNOWN
Description		
I faced Fiddle::DLError such following.		
<pre>C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/3.1.0/fiddle/import.rb:297:in `import_function': cannot find the function: rb_w32_map_errno() (Fiddle::DLError)   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/3.1.0/fiddle/import.rb:170:in `extern' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/winsock.rb:112:in `<module:rbwinsock>'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/winsock.rb:97:in `<module:serverengine>' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/winsock.rb:18:in `<top (required)="">'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/socket_manager_win.rb:21:in `require_relative' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/socket_manager_win.rb:21:in `<top (required)="">'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/socket_manager.rb:222:in `require_relative' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/socket_manager.rb:222:in `<module:socketmanager>'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/socket_manager.rb:26:in `<module:serverengine>' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/socket_manager.rb:25:in `<top (required)="">'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/process_manager.rb:19:in `require' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/process_manager.rb:19:in `<top (required)="">'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/supervisor.rb:20:in `require' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/supervisor.rb:20:in `<top (required)="">'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/daemon.rb:21:in `require' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine/daemon.rb:21:in `<top (required)="">'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine.rb:26:in `require' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine.rb:26:in `<module:serverengine>'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/serverengine-2.2.4/lib/serverengine.rb:18:in `<top (required)="">' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/fluentd-1.14.4/lib/fluent/test/log.rb:17:in `require'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/fluentd-1.14.4/lib/fluent/test/log.rb:17:in `<top (required)="">' from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/fluentd-1.14.4/lib/fluent/test.rb:19:in `require'   from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/fluentd-1.14.4/lib/fluent/test.rb:19:in `<top (required)="">' from D:/a/fluent-plugin-bigquery/fluent-plugin-bigquery/test/helper.rb:6:in `require'   from D:/a/fluent-plugin-bigquery/fluent-plugin-bigquery/test/helper.rb:6:in `<top (required)="">'</top></top></top></top></module:serverengine></top></top></top></top></module:serverengine></module:socketmanager></top></top></module:serverengine></module:rbwinsock></pre>		

```

from D:/a/fluent-plugin-bigquery/fluent-plugin-bigquery/test/plugin/test_out_bigquery_base.rb:1:in `require'
from D:/a/fluent-plugin-bigquery/fluent-plugin-bigquery/test/plugin/test_out_bigquery_base.rb:1:in `<top (required)>'
from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/rake-13.0.6/lib/rake/rake_test_loader.rb:21:in `require'
from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/rake-13.0.6/lib/rake/rake_test_loader.rb:21:in `block in <main>'
from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/rake-13.0.6/lib/rake/rake_test_loader.rb:6:in `select'
from C:/hostedtoolcache/windows/Ruby/3.1.0/x64/lib/ruby/gems/3.1.0/gems/rake-13.0.6/lib/rake/rake_test_loader.rb:6:in `<main>'
rake aborted!

```

The cause code is here. (

<https://github.com/treasure-data/serverengine/blob/4d6dbd3d1b4e1af88cc2593b5b19cf0f6da7d5dd/lib/serverengine/winsock.rb#L112>)

```

module RbWinSock
  extend Fiddle::Importer

  dllload "kernel32"
  extern "int GetModuleFileNameA(int, char *, int)"
  extern "int CloseHandle(int)"

  ruby_bin_path_buf = Fiddle::Pointer.malloc(1000)
  GetModuleFileNameA(0, ruby_bin_path_buf, ruby_bin_path_buf.size)

  ruby_bin_path = ruby_bin_path_buf.to_s.gsub(/\\/, '/')
  ruby_dll_paths = File.dirname(ruby_bin_path) + '/*msvcr*ruby*.dll'
  ruby_dll_path = Dir.glob(ruby_dll_paths).first
  dllload ruby_dll_path

  extern "int rb_w32_map_errno(int)"

```

On 3.0.x, this test is passed.

Moreover, I don't find any changes about rb_w32_map_errno from 3.0.3 to 3.1.0.

It is strange behavior. It may be a bug in Ruby-3.1.0

Environment

- Github Actions (windows-latest)
- use <https://github.com/oneclick/rubyinstaller2/releases/download/RubyInstaller-3.1.0-1/rubyinstaller-3.1.0-1-x64.7z>
- permalink to failed test (https://github.com/fluent-plugins-nursery/fluent-plugin-bigquery/runs/4775813193?check_suite_focus=true)

I apologize for the lack of research, as I do not have a Windows environment.

History

#1 - 01/11/2022 02:11 PM - joker1007 (Tomohiro Hashidate)

- Subject changed from rb_w32_map_errno does not found on Ruby-3.1.0 to rb_w32_map_errno is not found on Ruby-3.1.0

#2 - 01/12/2022 09:57 AM - kubo (Takehiro Kubo)

It is because of a change in rubyinstaller-3.1.0-x64.

In <https://rubyinstaller.org/2021/12/31/rubyinstaller-3.1.0-1-released.html>:

RubyInstaller-3.1.0-x64 has a changed C-runtime called UCRT replacing the old MSVCRT.

I guess that ruby_dll_path is nil because *msvcr*ruby*.dll doesn't exist in the bin directory.

rubyinstaller-3.1.0-x64: x64-ucrt-ruby310.dll

rubyinstaller-3.0.0-x64: x64-msvcrt-ruby300.dll

rubyinstaller-3.1.0-x86: msvcrt-ruby310.dll
rubyinstaller-3.0.0-x86: msvcrt-ruby300.dll

How about the following code?

```
module RbWinSock
  extend Fiddle::Importer

  dllload "kernel32"
  extern "int CloseHandle(int)"

  require 'rbconfig'
  dllload RbConfig::CONFIG['LIBRUBY_SO']
  extern "int rb_w32_map_errno(int)"
```

#3 - 01/13/2022 09:53 AM - kubo (Takehiro Kubo)

The error itself was fixed by <https://github.com/treasure-data/serverengine/pull/116#issuecomment-1011931598>.
There is another error in serverengine using ruby 3.1 but it is unrelated to this issue.

#4 - 01/13/2022 09:59 AM - ashie (Takuro Ashie)

I've released a fixed version of serverengine: <https://rubygems.org/gems/serverengine/versions/2.2.5>
Thanks for your report!

#5 - 08/25/2023 05:44 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Open to Closed