

Ruby master - Bug #16759

MinGW 2.5 - SEGV bug with Binding#local_variable_set

04/05/2020 06:32 PM - MSP-Greg (Greg L)

Status:	Open		
Priority:	Normal		
Assignee:	nobu (Nobuyoshi Nakada)		
Target version:			
ruby -v:	Ruby MinGW 2.5	Backport:	2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN

Description

A failure with MinGW 2.5.8 appeared in ruby/spec CI from the below in core/binding/local_variable_set_spec.rb. I believe the specs passed on 2.5.7:

```
it "raises a NameError on global access" do
  bind = binding
  -> { bind.local_variable_set(:$0, "") }.should raise_error(NameError)
end
```

```
it "raises a NameError on special variable access" do
  bind = binding
  -> { bind.local_variable_set(:$~, "") }.should raise_error(NameError)
  -> { bind.local_variable_set(:$_, "") }.should raise_error(NameError)
end
```

Working locally, the below code failed on both 2.5.7 and 2.5.8, but passed on mswin head & MinGW 2.6 thru head:

```
[:$0, :$~, :$_].each do |v|
  a = -> (bind) do
    bind.local_variable_set(v, '')
  end
  begin
    a[binding]
  rescue => e
    puts "#{v} #{e.class}"
  end
end
```

I checked other uses, see <https://github.com/MSP-Greg/ruby-testing/blob/master/binding-local-variable.rb>. I ran the file in Actions CI on both Ubuntu & Windows, see the 'binding issue' step on any job at: <https://github.com/MSP-Greg/ruby-testing/actions/runs/71232731>

History

#1 - 04/06/2020 12:00 AM - MSP-Greg (Greg L)

Thanks to the work by [Eregon \(Benoit Daloze\)](#) in ruby/setup-ruby, the issue first appeared in 2.5.6.

Passed
ruby 2.4.10p364

ruby 2.5.0p0
ruby 2.5.1p57
ruby 2.5.3p105
ruby 2.5.5p157

ruby 2.6.0p0

Failed
ruby 2.5.6p201

See:
<https://github.com/MSP-Greg/ruby-testing/actions/runs/71387353>

#2 - 05/31/2020 04:21 PM - Eregon (Benoit Daloze)

- Assignee set to nobu (Nobuyoshi Nakada)

Could someone take a look at this please?

It seems a pretty serious bug to segfault/abort when using `Binding#local_variable_set`.
cc [nobu \(Nobuyoshi Nakada\)](#)[usa \(Usaku NAKAMURA\)](#)

#3 - 06/23/2020 11:00 PM - Eregon (Benoit Daloze)

Ping.

This still happens and is annoying as it fails consistently in ruby/spec's CI (e.g., <https://github.com/ruby/spec/pull/774>).
I will now exclude it there, but the bug is still present.