

## Ruby master - Bug #16382

### SystemStackError thrown when running `LC\_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 aaa.rb` from where the current dir contains Japanese characters

11/30/2019 02:13 AM - yuki24 (Yuki Nishijima)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.7.0dev (2019-11-29T23:00:40Z master 0b1b2f2442) [x86_64-darwin18]	<b>Backport:</b> 2.5: REQUIRED, 2.6: DONTNEED
<b>Description</b>	
<b>Steps to reproduce</b>	
<pre>~/GitHub/ruby/did_you_mean/[] [] \$ LC_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 aaa.rb Traceback (most recent call last):   2: from &lt;internal:gem_prelude&gt;:5:in `&lt;internal:gem_prelude&gt;'   1: from /Users/yuki/.rbenv/versions/2.7.0-dev/lib/ruby/2.7.0/rubygems/core_ext/kernel_require.rb:72:in `require' /Users/yuki/.rbenv/versions/2.7.0-dev/lib/ruby/2.7.0/rubygems/core_ext/kernel_require.rb:72:in `require': stack level too deep (SystemStackError)</pre>	
The key points are:	
<ul style="list-style-type: none"><li>• The current directory contains one or more Japanese character (perhaps non-alphabet char is what's causing the issue, but I'm unfamiliar with other types of chars)</li><li>• Only happens when LC_ALL="C" RUBYLIB="." environment variables and the option -E cp932:utf-8 are given</li><li>• The existing of the file that is supposed to be run by the executable does not seem to matter</li></ul>	
<b>Actual</b>	
A SystemStackError is thrown.	
<b>Expected</b>	
The file specified should be run or Ruby should throw a No such file or directory -- aaa.rb (LoadError) error.	

#### Associated revisions

##### Revision 14a17063 - 12/02/2019 11:51 PM - nobu (Nobuyoshi Nakada)

Fixed stack overflow [Bug #16382]

Get rid of infinite recursion in expanding a load path to the real path while loading a transcoder.

#### History

##### #1 - 11/30/2019 02:28 AM - yuki24 (Yuki Nishijima)

- Backport changed from 2.5: UNKNOWN, 2.6: UNKNOWN to 2.5: REQUIRED, 2.6: DONTNEED

2.6.5 seems to be working fine:

```
~/GitHub/ruby/did_you_mean/[] [] $ ruby -v
ruby 2.6.5p114 (2019-10-01 revision 67812) [x86_64-darwin18]
~/GitHub/ruby/did_you_mean/[] [] $ echo "puts 'ok'" > a.rb
~/GitHub/ruby/did_you_mean/[] [] $ LC_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 a.rb
ok
```

while 2.5.5 seems to have the same issue:

```
~/GitHub/ruby/did_you_mean/[] [] $ ruby -v
ruby 2.5.5p157 (2019-03-15 revision 67260) [x86_64-darwin18]
```

```
~/GitHub/ruby/did_you_mean/000$ LC_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 a.rb
Traceback (most recent call last):
  2: from <internal:gem_prelude>:5:in `<internal:gem_prelude>'
  1: from /Users/yuki/.rbenv/versions/2.5.5/lib/ruby/2.5.0/rubygems/core_ext/kernel_require.rb:59:in `require'
/Users/yuki/.rbenv/versions/2.5.5/lib/ruby/2.5.0/rubygems/core_ext/kernel_require.rb:59:in `require': stack level too deep (SystemStackError)
```

And Interestingly enough, 2.5.6 and 2.5.7 seem to be running into a different issue:

```
~/GitHub/ruby/did_you_mean/000$ ruby -v
ruby 2.5.6p201 (2019-08-28 revision 67796) [x86_64-darwin18]
~/GitHub/ruby/did_you_mean/000$ LC_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 a.rb
Illegal instruction: 4
```

```
~/GitHub/ruby/did_you_mean/000$ ruby -v
ruby 2.5.7p206 (2019-10-01 revision 67816) [x86_64-darwin18]
~/GitHub/ruby/did_you_mean/000$ LC_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 a.rb
Illegal instruction: 4
```

## #2 - 12/03/2019 01:16 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [git|14a17063a11a01d518b4bbaf0eb967330aec3984](https://github.com/ruby/ruby/commit/14a17063a11a01d518b4bbaf0eb967330aec3984).

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Fixed stack overflow [Bug #16382]

Get rid of infinite recursion in expanding a load path to the real path while loading a transcoder.

## #3 - 12/04/2019 03:01 AM - Tietew (Toru Iwase)

same issue with 2.6.5 [x86\_64-linux].  
I think backport 2.6 is REQUIRED.

```
~/tmp/000$ echo "puts 'ok'" > aaa.rb
~/tmp/000$ ruby -v
ruby 2.6.5p114 (2019-10-01 revision 67812) [x86_64-linux]
~/tmp/000$ LC_ALL="C" RUBYLIB="." ruby -E cp932:utf-8 aaa.rb
Traceback (most recent call last):
  2: from <internal:gem_prelude>:5:in `<internal:gem_prelude>'
  1: from /usr/local/anyenv/envs/rbenv/versions/2.6.5/lib/ruby/2.6.0/rubygems/core_ext/kernel_require.rb:54:in `require'
/usr/local/anyenv/envs/rbenv/versions/2.6.5/lib/ruby/2.6.0/rubygems/core_ext/kernel_require.rb:54:in `require': stack level too deep (SystemStackError)
```

No need to set LC\_ALL and encoding:

```
~/tmp/000$ echo $LANG
ja_JP.UTF-8
~/tmp/000$ ruby aaa.rb
ok
~/tmp/000$ RUBYLIB="." ruby aaa.rb
Traceback (most recent call last):
  2: from <internal:gem_prelude>:5:in `<internal:gem_prelude>'
  1: from /usr/local/anyenv/envs/rbenv/versions/2.6.5/lib/ruby/2.6.0/rubygems/core_ext/kernel_require.rb:54:in `require'
/usr/local/anyenv/envs/rbenv/versions/2.6.5/lib/ruby/2.6.0/rubygems/core_ext/kernel_require.rb:54:in `require': stack level too deep (SystemStackError)
```