

Ruby trunk - Bug #7536

local variables added to TOPLEVEL_BINDING in -r are broken

12/09/2012 09:41 AM - Conrad Irwin (Conrad Irwin)

Status:	Closed	
Priority:	Normal	
Assignee:	ko1 (Koichi Sasada)	
Target version:	2.0.0	
ruby -v:	2.0.0dev (2012-12-09 trunk 38278) [x86_64-linux]	Backport:

Description

If a library that you require in the `-r` flag of ruby evals things in `TOPLEVEL_BINDING` (e.g. `RUBY_OPT=-rbundler/setup`), then the local variables will show up in `TOPLEVEL_BINDING.eval("local_variables")`, but they raise a `NameError` if you try to use them.

A minimal test case is:

```
$ cat b.rb
TOPLEVEL_BINDING.eval("lib = 2")
```

```
$ cat a.rb
puts TOPLEVEL_BINDING.eval("local_variables").inspect
puts TOPLEVEL_BINDING.eval("lib").inspect
```

```
$ ruby -r./b.rb a.rb
[:lib]
:in <main>': undefined local variable or method lib' for main:Object (NameError)
from a.rb:2:in eval'
from a.rb:2:in'
```

This affects ruby 1.9.3 and ruby 2.0.0, I tested with:
ruby 1.9.3p327 (2012-11-10 revision 37606) [x86_64-linux]
ruby 2.0.0dev (2012-12-09 trunk 38278) [x86_64-linux]

Ruby 1.8.7 works fine:
\$ ruby -v
ruby 1.8.7 (2012-06-29 patchlevel 370) [x86_64-linux]
\$ ruby -r./b.rb a.rb
["lib"]
2

This breaks debugging tools like pry or https://github.com/charliesome/better_errors, which rightly assume that it's safe to do:

```
any_binding.eval("local_variables").map{ |x| any_binding.eval("#{x}") }
```

There are two possible solutions; either remove the variable names from the list of "local_variables", make sure they don't raise a `NameError`.

Associated revisions

Revision f4ef96e6 - 12/21/2012 10:39 AM - ko1 (Koichi Sasada)

- ruby.c (process_options): need to acquire env from TOPLEVEL_BINDING each time. bind->env' may update aftereval(). [Bug #7536]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38529 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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Revision 1ed4ed43 - 12/21/2012 10:53 AM - naruse (Yui NARUSE)

Add test for r38529 [Bug #7536]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38530 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 38530 - 12/21/2012 10:53 AM - naruse (Yui NARUSE)

Add test for r38529 [Bug #7536]

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History

#1 - 12/13/2012 07:35 PM - charliesome (Charlie Somerville)

- Status changed from Open to Assigned
- Assignee set to ko1 (Koichi Sasada)
- Priority changed from Normal to 5
- Target version set to 2.0.0

#2 - 12/21/2012 07:40 PM - ko1 (Koichi Sasada)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset [r38529](#).
Conrad, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

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