

## Ruby master - Bug #10579

### Segmentation fault at 0x0000000000000000

12/08/2014 12:54 PM - arunkant (Arun Kant Sharma)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Target version:</b> 2.2.0	
<b>ruby -v:</b> ruby 2.1.2p95 (2014-05-08 revision 45877) [x86_64-linux]	<b>Backport:</b> 2.0.0: DONE, 2.1: DONE
<b>Description</b> Following script cause a Segmentation fault <pre>\$ ruby -rresolv -e 'ObjectSpace.each_object {  obj  p obj }' &gt; temp.output</pre> But this one not <pre>\$ ruby -e 'ObjectSpace.each_object {  obj  p obj }' &gt; temp.output</pre>	

#### Associated revisions

##### Revision 42879154 - 12/09/2014 01:16 AM - nobu (Nobuyoshi Nakada)

thread.c: get rid of invalid ID symbol

- eval.c (rb\_frame\_last\_func): return the most recent frame method name.
- thread.c (recursive\_list\_access): use the last method name, instead of the current method name which can be unset in some cases, not to use a symbol by the invalid ID. [ruby-core:66742] [Bug #10579]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@48744 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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#### Revision 8cbf4003 - 12/10/2014 12:38 AM - nobu (Nobuyoshi Nakada)

`thread.c`: use the same method name

- `thread.c (exec_recursive)`: use the same last method name as `recursive_push` in the error message when `recursive_pop` failed. [ruby-core:66742] [Bug #10579]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@48752 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 48752 - 12/10/2014 12:38 AM - nobu (Nobuyoshi Nakada)

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#### Revision 9120d051 - 01/14/2015 07:04 AM - usa (Usaku NAKAMURA)

merge revision(s) 48744,48752: [Backport #10579]

```
* eval.c (rb_frame_last_func): return the most recent frame method
name.
```

```
* thread.c (recursive_list_access): use the last method name,
instead of the current method name which can be unset in some
cases, not to use a symbol by the invalid ID.
[ruby-core:66742] [Bug #10579]
```

```
* thread.c (exec_recursive): use the same last method name as
```

```
recursive_push in the error message when recursive_pop failed.
[ruby-core:66742] [Bug #10579]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_0\_0@49246 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 49246 - 01/14/2015 07:04 AM - usa (Usaku NAKAMURA)

merge revision(s) 48744,48752: [Backport #10579]

```
* eval.c (rb_frame_last_func): return the most recent frame method
  name.

* thread.c (recursive_list_access): use the last method name,
  instead of the current method name which can be unset in some
  cases, not to use a symbol by the invalid ID.
[ruby-core:66742] [Bug #10579]

* thread.c (exec_recursive): use the same last method name as
  recursive_push in the error message when recursive_pop failed.
[ruby-core:66742] [Bug #10579]
```

#### Revision 4b0a168d - 01/21/2015 04:09 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r48744,r48752: [Backport #10579]

```
* eval.c (rb_frame_last_func): return the most recent frame method
  name.

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  instead of the current method name which can be unset in some
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[ruby-core:66742] [Bug #10579]

* thread.c (exec_recursive): use the same last method name as
  recursive_push in the error message when recursive_pop failed.
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```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_2\_1@49369 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### Revision 49369 - 01/21/2015 04:09 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r48744,r48752: [Backport #10579]

```
* eval.c (rb_frame_last_func): return the most recent frame method
  name.

* thread.c (recursive_list_access): use the last method name,
  instead of the current method name which can be unset in some
  cases, not to use a symbol by the invalid ID.
[ruby-core:66742] [Bug #10579]

* thread.c (exec_recursive): use the same last method name as
  recursive_push in the error message when recursive_pop failed.
[ruby-core:66742] [Bug #10579]
```

## History

### #1 - 12/08/2014 02:12 PM - phasis68 (Heesob Park)

The root cause of this issue is openssl.so.

```
C:\>ruby -ropenssl.so -e "ObjectSpace.each_object{|obj| p obj}"
...
-e:1: [BUG] Segmentation fault
ruby 2.1.3p242 (2014-09-19 revision 47630) [i386-mingw32]
```

```
-- Control frame information -----
c:0007 p:---- s:0018 e:000017 CFUNC :inspect
c:0006 p:---- s:0016 e:000015 CFUNC :inspect
c:0005 p:---- s:0014 e:000013 CFUNC :p
c:0004 p:0009 s:0010 e:000009 BLOCK -e:1 [FINISH]
c:0003 p:---- s:0007 e:000006 CFUNC :each_object
c:0002 p:0011 s:0004 E:0014fc EVAL -e:1 [FINISH]
c:0001 p:0000 s:0002 E:001354 TOP [FINISH]

-e:1:in `<main>'
```

```
-e:1:in `each_object'  
-e:1:in `block in <main>'  
-e:1:in `p'  
-e:1:in `inspect'  
-e:1:in `inspect'
```

```
-- C level backtrace information -----  
C:\WINDOWS\SYSTEM32\ntdll.dll (NtWaitForSingleObject+0xc) [0x7700A53C]  
C:\WINDOWS\SYSTEM32\KERNELBASE.dll (WaitForSingleObject+0x12) [0x76B31055]  
C:\Ruby21\bin\msvcrt-ruby210.dll (rb_vm_bugreport+0xa7) [0x6D3947A7]  
C:\Ruby21\bin\msvcrt-ruby210.dll (rb_name_err_mesg_new+0x69f) [0x6D248FBF]  
C:\Ruby21\bin\msvcrt-ruby210.dll (rb_bug+0x2e) [0x6D249D9E]  
C:\Ruby21\bin\msvcrt-ruby210.dll (rb_check_safe_str+0x34b) [0x6D31483B] [0x00401866]  
C:\WINDOWS\SYSTEM32\ntdll.dll (LdrSetAppCompatDllRedirectionCallback+0x12c0f) [0x77079E86]
```

## #2 - 12/08/2014 09:12 PM - nobu (Nobuyoshi Nakada)

- Description updated

- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: REQUIRED, 2.1: REQUIRED

Not only openssl.so, resolv.rb too.

The cause is exec\_recursive used by rb\_hash\_any stores the current method name, but it isn't set in the required top-level, and a few other cases.

## #3 - 12/08/2014 11:48 PM - nobu (Nobuyoshi Nakada)

- Description updated

One of the simplest code to reproduce it is:

```
$ ruby -e '{"foo"}=>nil; p Thread.current[:__recursive_key__]'
```

## #4 - 12/09/2014 01:16 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

- % Done changed from 0 to 100

Applied in changeset r48744.

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thread.c: get rid of invalid ID symbol

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## #5 - 01/14/2015 07:05 AM - usa (Usaku NAKAMURA)

- Backport changed from 2.0.0: REQUIRED, 2.1: REQUIRED to 2.0.0: DONE, 2.1: REQUIRED

Backported into ruby\_2\_0\_0 at r49246.

note: thread.c is a little different from trunk.

## #6 - 01/21/2015 04:10 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.0.0: DONE, 2.1: REQUIRED to 2.0.0: DONE, 2.1: DONE

Backported into ruby\_2\_1 at r49369.

## Files

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rubyerror.output	18.7 KB	12/08/2014	arunkant (Arun Kant Sharma)
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