

## Ruby trunk - Bug #13286

### Segfault when using `rb_debug_inspector_open` / `rb_debug_inspector_frame_binding_get` with Fiddle, but not when directly from C extension

03/06/2017 11:30 AM - shreeve (Steve Shreeve)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> tenderlovmaking (Aaron Patterson)	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux]	<b>Backport:</b> 2.2: UNKNOWN, 2.3: UNKNOWN, 2.4: UNKNOWN

#### Description

#### System

```
$ uname -a
Linux clients 4.1.5-x86_64-linode61
#7 SMP Mon Aug 24 13:46:31 EDT 2015 x86_64 x86_64 x86_64 GNU/Linux
```

```
$ ruby -v
ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux]
```

#### Program

#### When using the following C extension, there are no segfaults

```
$ cat of_caller.c

#include "ruby/ruby.h"
#include "ruby/debug.h"

static VALUE
callback(const rb_debug_inspector_t *dbg_context, void *data)
{
    long item = NUM2LONG(*(VALUE *)data);
    return rb_debug_inspector_frame_binding_get(dbg_context, item + 1);
}

static VALUE
of_caller(VALUE self, VALUE item)
{
    return rb_debug_inspector_open(callback, (void *) &item);
}

void
Init_bindings(VALUE self)
{
    VALUE cBinding = rb_define_class("Binding", rb_cObject);
    rb_define_singleton_method(cBinding, "of_caller", of_caller, 1);
    rb_define_method(cBinding, "of_caller", of_caller, 1);
}
```

#### But, when using this Fiddle version, there are intermittent Ruby crashes

```
$ cat of_caller.rb

require 'fiddle/import'

module Fiddle
  module Binding
    extend Fiddle::Importer
    dlopen Fiddle.dlopen(nil)
  end
end
```

```

    rb_debug_inspector_open          = extern "void* rb_debug_inspector_open(void*, void*)"
    rb_debug_inspector_frame_binding_get = extern
"void* rb_debug_inspector_frame_binding_get(void*, long)"
    callback = bind("void* callback(void*, void*)") {|ctx, n| rb_debug_inspector_frame_binding_get
.call(ctx, n+4)}
    end
end

class Binding
  def self.of_caller(n); ::Fiddle::Binding.rb_debug_inspector_open(::Fiddle::Binding['callback'],
n).to_value; end
  def of_caller(n); self.class.of_caller(n); end
end

```

## The code used to test the C and Ruby versions

```

# below here is just to test it out...

outer = 40

class A
  def a
    a = 30
    B.new.b
  end
end

class B
  def b
    b = 20
    C.new.c
  end
end

class C
  def c
    c = 10
    puts binding.of_caller(0).eval('local_variables') # c
    puts binding.of_caller(1).eval('local_variables') # b
    puts binding.of_caller(2).eval('local_variables') # a
    puts binding.of_caller(3).eval('local_variables') # outer
    puts binding.of_caller(9).eval('local_variables') rescue puts($!)
  end
end

50.times { A.new.a }

```

## Results

```

$ ruby ./of_caller.rb
c
b
a
outer
no such frame
c
b
a
outer
no such frame

... there are a total of 47 of these "c,b,a,out,no such" repeats ...

c
b
a

```

```

outer
./of_caller.rb:8: [BUG] Segmentation fault at 0x0000000000000008
ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux]

-- Control frame information -----
c:0011 p:---- s:0052 e:000051 CFUNC :call
c:0010 p:0021 s:0046 E:001110 METHOD ./of_caller.rb:8
c:0009 p:0037 s:0040 E:000b48 METHOD ./of_caller.rb:14
c:0008 p:0013 s:0035 E:000218 METHOD ./of_caller.rb:15
c:0007 p:0102 s:0030 E:000458 METHOD ./of_caller.rb:41
c:0006 p:0023 s:0024 E:000288 METHOD ./of_caller.rb:30
c:0005 p:0023 s:0019 E:0024d8 METHOD ./of_caller.rb:23
c:0004 p:0017 s:0014 E:0016a0 BLOCK ./of_caller.rb:45 [FINISH]
c:0003 p:---- s:0011 e:000010 CFUNC :times
c:0002 p:0073 s:0007 E:002688 EVAL ./of_caller.rb:45 [FINISH]
c:0001 p:0000 s:0003 E:000e20 (none) [FINISH]

-- Ruby level backtrace information -----
./of_caller.rb:45:in `'
./of_caller.rb:45:in `times'
./of_caller.rb:45:in `block in <main>'
./of_caller.rb:23:in `a'
./of_caller.rb:30:in `b'
./of_caller.rb:41:in `c'
./of_caller.rb:15:in `of_caller'
./of_caller.rb:14:in `of_caller'
./of_caller.rb:8:in `rb_debug_inspector_open'
./of_caller.rb:8:in `call'

-- Machine register context -----
RIP: 0x00007f3c3764250e RBP: 0x000055fdc2a036f8 RSP: 0x00007ffd8ceb71e0
RAX: 0x0000000000000008 RBX: 0x0000000000000008 RCX: 0x0000000000000000
RDX: 0x000000000000001d RDI: 0x0000000000bc530c RSI: 0x000055fdc2af2bb6
R8: 0x209604bcef02eb42 R9: 0x8a75da5f9c77ef5e R10: 0x00007f3c37645dcb
R11: 0x00007f3c382a8870 R12: 0x000055fdc2a02f30 R13: 0x0000000000000003
R14: 0x00007ffd8ceb72c0 R15: 0x000055fdc2d570f8 EFL: 0x000000000010206

-- C level backtrace information -----
/opt/rubies/ruby-2.4.0/bin/ruby(rb_vm_bugreport+0x528) [0x55fdc07237e8] vm_dump.c:679
/opt/rubies/ruby-2.4.0/bin/ruby(rb_bug_context+0xd0) [0x55fdc0718980] error.c:426
/opt/rubies/ruby-2.4.0/bin/ruby(sigsegv+0x3e) [0x55fdc0614abe] signal.c:907
/lib/x86_64-linux-gnu/libpthread.so.0 [0x7f3c38c3a340]
/opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so(with_gvl_callback+0x3e) [
0x7f3c3764250e] closure.c:73
/opt/rubies/ruby-2.4.0/bin/ruby(rb_thread_call_with_gvl+0x1db) [0x55fdc065120b] thread.c:1495
/opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so(callback+0x54) [
0x7f3c37642b44] closure.c:195
/usr/lib/x86_64-linux-gnu/libffi.so.6(ffi_closure_unix64_inner+0x1fb) [0x7f3c3743c8cb]
/usr/lib/x86_64-linux-gnu/libffi.so.6(ffi_closure_unix64+0x46) [0x7f3c3743cc44]
/opt/rubies/ruby-2.4.0/bin/ruby(rb_debug_inspector_open+0x1ea) [
0x55fdc06a036a] vm_backtrace.c:1186
/usr/lib/x86_64-linux-gnu/libffi.so.6(ffi_call_unix64+0x4c) [0x7f3c3743cadc]
/usr/lib/x86_64-linux-gnu/libffi.so.6(ffi_call+0x1fc) [0x7f3c3743c40c]
/opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so(nogvl_ffi_call+0x18) [
0x7f3c37643bd8] function.c:160
/opt/rubies/ruby-2.4.0/bin/ruby(rb_thread_call_without_gvl+0x42) [0x55fdc06508e2] thread.c:1294
/opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so(function_call+0x305) [
0x7f3c37643a05] function.c:219
/opt/rubies/ruby-2.4.0/bin/ruby(vm_call_cfunc+0xf1) [0x55fdc0685151] vm_inshelper.c:1752
/opt/rubies/ruby-2.4.0/bin/ruby(vm_exec_core+0x2f90) [0x55fdc068dc70] insns.def:967
/opt/rubies/ruby-2.4.0/bin/ruby(vm_exec+0x87) [0x55fdc0691207] vm.c:1712
/opt/rubies/ruby-2.4.0/bin/ruby(rb_yield_1+0x592) [0x55fdc069af52] vm.c:969
/opt/rubies/ruby-2.4.0/bin/ruby(int_dotimes+0x3e) [0x55fdc057fd9e] numeric.c:4968
/opt/rubies/ruby-2.4.0/bin/ruby(vm_call_cfunc+0xf1) [0x55fdc0685151] vm_inshelper.c:1752
/opt/rubies/ruby-2.4.0/bin/ruby(vm_call_method+0xe3) [0x55fdc0693263] vm_inshelper.c:2291
/opt/rubies/ruby-2.4.0/bin/ruby(vm_exec_core+0x2f90) [0x55fdc068dc70] insns.def:967
/opt/rubies/ruby-2.4.0/bin/ruby(vm_exec+0x87) [0x55fdc0691207] vm.c:1712

```

```
/opt/rubies/ruby-2.4.0/bin/ruby(ruby_exec_internal+0xad) [0x55fdc05200ad] eval.c:244
/opt/rubies/ruby-2.4.0/bin/ruby(ruby_run_node+0x2d) [0x55fdc052378d] eval.c:308
/opt/rubies/ruby-2.4.0/bin/ruby(main+0x4b) [0x55fdc051fe6b] addr2line.c:177
```

```
-- Other runtime information -----
```

```
* Loaded script: ./of_caller.rb
```

```
* Loaded features:
```

```
 0 enumerator.so
 1 thread.rb
 2 rational.so
 3 complex.so
 4 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/encdb.so
 5 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/transdb.so
 6 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/unicode_normalize.rb
 7 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/rbconfig.rb
 8 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/compatibility.rb
 9 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/defaults.rb
10 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/deprecate.rb
11 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/errors.rb
12 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/version.rb
13 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/requirement.rb
14 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/platform.rb
15 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/basic_specification.rb
16 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/stub_specification.rb
17 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/util/list.rb
18 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/stringio.so
19 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/specification.rb
20 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/exceptions.rb
21 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/dependency.rb
22 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/core_ext/kernel_gem.rb
23 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/monitor.rb
24 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/core_ext/kernel_require.rb
25 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems.rb
26 /opt/rubies/ruby-2.4.0/lib/ruby/site_ruby/2.4.0/rubygems/path_support.rb
27 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/version.
rb
 28 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/core_ext
/name_error.rb
 29 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/levensht
ein.rb
 30 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/jaro_winkler.rb
 31 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/spell_checker.rb
 32 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/delegate.rb
 33 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/spell_checker/name_error_checkers/class_name_checker.rb
 34 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/spell_checker/name_error_checkers/variable_name_checker.rb
 35 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/spell_checker/name_error_checkers.rb
 36 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/spell_checker/method_name_checker.rb
 37 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/spell_checker/null_checker.rb
 38 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean/formatter.rb
 39 /opt/rubies/ruby-2.4.0/lib/ruby/gems/2.4.0/gems/did_you_mean-1.1.0/lib/did_you_mean.rb
40 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so
41 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/function.rb
42 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/closure.rb
43 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle.rb
44 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/value.rb
45 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/pack.rb
```

```

46 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/struct.rb
47 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/cparser.rb
48 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/fiddle/import.rb

```

\* Process memory map:

```

55fdc04fb000-55fdc07fb000 r-xp 00000000 08:00 4517097 /opt/rubies/ruby-2.4.0/bin/ruby
55fdc09fb000-55fdc0a00000 r--p 00300000 08:00 4517097 /opt/rubies/ruby-2.4.0/bin/ruby
55fdc0a00000-55fdc0a01000 rw-p 00305000 08:00 4517097 /opt/rubies/ruby-2.4.0/bin/ruby
55fdc0a01000-55fdc0a13000 rw-p 00000000 00:00 0
55fdc2a02000-55fdc2e5c000 rw-p 00000000 00:00 0 [heap]
7f3c36111000-7f3c362d3000 r--s 00000000 08:00 18047 /lib/x86_64-linux-gnu/libc-2.19.so
7f3c362d3000-7f3c37221000 r--s 00000000 08:00 4517097 /opt/rubies/ruby-2.4.0/bin/ruby
7f3c37221000-7f3c37237000 r-xp 00000000 08:00 20410 /lib/x86_64-linux-gnu/libgcc_s.so.1
7f3c37237000-7f3c37436000 ---p 00016000 08:00 20410 /lib/x86_64-linux-gnu/libgcc_s.so.1
7f3c37436000-7f3c37437000 rw-p 00015000 08:00 20410 /lib/x86_64-linux-gnu/libgcc_s.so.1
7f3c37437000-7f3c3743e000 r-xp 00000000 08:00 6866 /usr/lib/x86_64-linux-gnu/libffi.so.6.0.1
7f3c3743e000-7f3c3763d000 ---p 00007000 08:00 6866 /usr/lib/x86_64-linux-gnu/libffi.so.6.0.1
7f3c3763d000-7f3c3763e000 r--p 00006000 08:00 6866 /usr/lib/x86_64-linux-gnu/libffi.so.6.0.1
7f3c3763e000-7f3c3763f000 rw-p 00007000 08:00 6866 /usr/lib/x86_64-linux-gnu/libffi.so.6.0.1
7f3c3763f000-7f3c37648000 r-xp 00000000 08:00 4524620 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so
7f3c37648000-7f3c37847000 ---p 00009000 08:00 4524620 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so
7f3c37847000-7f3c37848000 r--p 00008000 08:00 4524620 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so
7f3c37848000-7f3c37849000 rw-p 00009000 08:00 4524620 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/fiddle.so
7f3c37849000-7f3c37851000 r-xp 00000000 08:00 4524618 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/stringio.so
7f3c37851000-7f3c37a50000 ---p 00008000 08:00 4524618 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/stringio.so
7f3c37a50000-7f3c37a51000 r--p 00007000 08:00 4524618 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/stringio.so
7f3c37a51000-7f3c37a52000 rw-p 00008000 08:00 4524618 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/stringio.so
7f3c37a52000-7f3c37a54000 r-xp 00000000 08:00 4524562 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/trans/transdb.so
7f3c37a54000-7f3c37c54000 ---p 00002000 08:00 4524562 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/trans/transdb.so
7f3c37c54000-7f3c37c55000 r--p 00002000 08:00 4524562 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/trans/transdb.so
7f3c37c55000-7f3c37c56000 rw-p 00003000 08:00 4524562 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/trans/transdb.so
7f3c37c56000-7f3c37c58000 r-xp 00000000 08:00 4524572 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/encdb.so
7f3c37c58000-7f3c37e57000 ---p 00002000 08:00 4524572 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/encdb.so
7f3c37e57000-7f3c37e58000 r--p 00001000 08:00 4524572 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/encdb.so
7f3c37e58000-7f3c37e59000 rw-p 00002000 08:00 4524572 /opt/rubies/ruby-2.4.0/lib/ruby/2.4.0/x86_64-linux/enc/encdb.so

```

```

b/ruby/2.4.0/x86_64-linux/enc/encdb.so
7f3c37e59000-7f3c38122000 r--p 00000000 08:00 949 /usr/lib/locale/locale-ar
chive
7f3c38122000-7f3c382dd000 r-xp 00000000 08:00 18047 /lib/x86_64-linux-gnu/lib
c-2.19.so
7f3c382dd000-7f3c384dc000 ---p
001bb000 08:00 18047 /lib/x86_64-linux-gnu/libc-2.19.so
7f3c384dc000-7f3c384e0000 r--p 001ba000 08:00 18047 /lib/x86_64-linux-gnu/lib
c-2.19.so
7f3c384e0000-7f3c384e2000 rw-p 001be000 08:00 18047 /lib/x86_64-linux-gnu/lib
c-2.19.so
7f3c384e2000-7f3c384e7000 rw-p 00000000 00:00 0
7f3c384e7000-7f3c385ec000 r-xp 00000000 08:00 16793 /lib/x86_64-linux-gnu/lib
m-2.19.so
7f3c385ec000-7f3c387eb000 ---p
00105000 08:00 16793 /lib/x86_64-linux-gnu/libm-2.19.so
7f3c387eb000-7f3c387ec000 r--p 00104000 08:00 16793 /lib/x86_64-linux-gnu/lib
m-2.19.so
7f3c387ec000-7f3c387ed000 rw-p 00105000 08:00 16793 /lib/x86_64-linux-gnu/lib
m-2.19.so
7f3c387ed000-7f3c387f6000 r-xp 00000000 08:00 17782 /lib/x86_64-linux-gnu/lib
crypt-2.19.so
7f3c387f6000-7f3c389f6000 ---p
00009000 08:00 17782 /lib/x86_64-linux-gnu/libcrypt-2.19.so
7f3c389f6000-7f3c389f7000 r--p 00009000 08:00 17782 /lib/x86_64-linux-gnu/lib
crypt-2.19.so
7f3c389f7000-7f3c389f8000 rw-p 0000a000 08:00 17782 /lib/x86_64-linux-gnu/lib
crypt-2.19.so
7f3c389f8000-7f3c38a26000 rw-p 00000000 00:00 0
7f3c38a26000-7f3c38a29000 r-xp 00000000 08:00 17270 /lib/x86_64-linux-gnu/lib
dl-2.19.so
7f3c38a29000-7f3c38c28000 ---p
00003000 08:00 17270 /lib/x86_64-linux-gnu/libdl-2.19.so
7f3c38c28000-7f3c38c29000 r--p 00002000 08:00 17270 /lib/x86_64-linux-gnu/lib
dl-2.19.so
7f3c38c29000-7f3c38c2a000 rw-p 00003000 08:00 17270 /lib/x86_64-linux-gnu/lib
dl-2.19.so
7f3c38c2a000-7f3c38c43000 r-xp 00000000 08:00 18048 /lib/x86_64-linux-gnu/lib
pthread-2.19.so
7f3c38c43000-7f3c38e42000 ---p
00019000 08:00 18048 /lib/x86_64-linux-gnu/libpthread-2.19.so
7f3c38e42000-7f3c38e43000 r--p 00018000 08:00 18048 /lib/x86_64-linux-gnu/lib
pthread-2.19.so
7f3c38e43000-7f3c38e44000 rw-p 00019000 08:00 18048 /lib/x86_64-linux-gnu/lib
pthread-2.19.so
7f3c38e44000-7f3c38e48000 rw-p 00000000 00:00 0
7f3c38e48000-7f3c38e6b000 r-xp 00000000 08:00 17951 /lib/x86_64-linux-gnu/ld-
2.19.so
7f3c38ea7000-7f3c38eaf000 r--s 00000000 08:00 6866 /usr/lib/x86_64-linux-gnu
/libffi.so.6.0.1
7f3c38eaf000-7f3c38f01000 r--s 00000000 08:00 4524620 /opt/rubies/ruby-2.4.0/li
b/ruby/2.4.0/x86_64-linux/fiddle.so
7f3c38f01000-7f3c38f24000 r--s 00000000 08:00 18048 /lib/x86_64-linux-gnu/lib
pthread-2.19.so
7f3c38f24000-7f3c38f55000 rw-p 00000000 00:00 0
7f3c38f55000-7f3c38f5c000 r--s 00000000 08:00 21069997 /usr/lib/x86_64-linux-gnu
/gconv/gconv-modules.cache
7f3c38f5c000-7f3c39061000 rw-p 00000000 00:00 0
7f3c39062000-7f3c39063000 rw-p 00000000 00:00 0
7f3c39063000-7f3c39064000 r-xp 00000000 00:00 0
7f3c39064000-7f3c39065000 ---p 00000000 00:00 0
7f3c39065000-7f3c3906a000 rw-p 00000000 00:00 0 [stack:30831]
7f3c3906a000-7f3c3906b000 r--p 00022000 08:00 17951 /lib/x86_64-linux-gnu/ld-
2.19.so
7f3c3906b000-7f3c3906c000 rw-p 00023000 08:00 17951 /lib/x86_64-linux-gnu/ld-
2.19.so
7f3c3906c000-7f3c3906d000 rw-p 00000000 00:00 0

```

```
7ffd8c6bb000-7ffd8ceba000 rw-p 00000000 00:00 0
7ffd8ceea000-7ffd8ceec000 r--p 00000000 00:00 0 [vvar]
7ffd8ceec000-7ffd8ceee000 r-xp 00000000 00:00 0 [vdso]
ffffffff600000-ffffffff601000 r-xp 00000000 00:00 0 [vsyscall]
```

[NOTE]

You may have encountered a bug in the Ruby interpreter or extension libraries.

Bug reports are welcome.

For details: <http://www.ruby-lang.org/bugreport.html>

Aborted

## History

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### #1 - 03/13/2017 08:58 AM - shyouhei (Shyouhei Urabe)

- Assignee set to *tenderlovmaking (Aaron Patterson)*

- Status changed from *Open* to *Assigned*

### #2 - 03/23/2017 04:38 AM - shreeve (Steve Shreeve)

Here's a link to a c-library extension that has been working great for us:

<https://github.com/shreeve/bindings>

### #3 - 01/10/2019 12:23 AM - tenderlovmaking (Aaron Patterson)

- Status changed from *Assigned* to *Closed*

Fixed here: <https://github.com/ruby/fiddle/commit/0fc697bbc5c55c5f45ea4f67a6279fba38d2d514>