

Ruby trunk - Bug #15200

RubyVM::InstructionSequence can not compile to binary from method call with hash in 'if false' expression

10/04/2018 01:37 AM - okwrtsh (Tadashi Okawara)

Status: Open	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-darwin17]	Backport: 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: REQUIRED

Description

These works as expected:

- if true

```
$ ruby -e 'RubyVM::InstructionSequence.compile("if true\nfoo bar: 1\nend").to_binary'
```

- method call without hash arguments

```
$ ruby -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar\nend").to_binary'
```

- use a variable

```
$ ruby -e 'RubyVM::InstructionSequence.compile("baz = false\nif baz\nfoo bar: 1\nend").to_binary'
```

- compile to array

```
$ ruby -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_a'
```

This throws an error:

```
$ ruby -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_binary'
```

```
-e:1: [BUG] Segmentation fault at 0x0000000000000000  
ruby 2.5.1p57 (2018-03-29 revision 63029) [x86_64-darwin17]
```

```
-- Crash Report log information -----  
See Crash Report log file under the one of following:  
* ~/Library/Logs/DiagnosticReports  
* /Library/Logs/DiagnosticReports  
for more details.
```

Don't forget to include the above Crash Report log file in bug reports.

```
-- Control frame information -----  
c:0003 p:---- s:0010 e:000009 CFUNC :to_binary  
c:0002 p:0017 s:0006 e:000005 EVAL -e:1 [FINISH]  
c:0001 p:0000 s:0003 E:000ea0 (none) [FINISH]
```

```
-- Ruby level backtrace information -----  
-e:1:in `<main>'  
-e:1:in `to_binary'
```

```
-- Machine register context -----  
rax: 0x0000000000000000 rbx: 0x0000000000000018 rcx: 0x00007fffe001c680  
rdx: 0x0000000000000008 rdi: 0x00007fffe001c670 rsi: 0x00007fd66d8489b0  
rbp: 0x00007fffe001c710 rsp: 0x00007fffe001c670 r8: 0x0003f145338f8b9f  
r9: 0x0000000000000001 r10: 0x0082234024000800 r11: 0x00000028727d3cc0  
r12: 0x000000000000004c r13: 0x00007fffe001c670 r14: 0x0000000000000000  
r15: 0x00007fd66d848390 rip: 0x000000010fc3246a rfl: 0x0000000000010246
```

```

-- C level backtrace information -----
0  libruby.2.5.dylib          0x000000010fdbeea7 rb_vm_bugreport + 135
1  libruby.2.5.dylib          0x000000010fc52c17 rb_bug_context + 327
2  libruby.2.5.dylib          0x000000010fd34858 sigsegv + 72
3  libsystem_platform.dylib   0x00007fff7a390f5a _sigtramp + 26
4  libruby.2.5.dylib          0x000000010fc3246a ibf_dump_ci_entries + 266
5  libruby.2.5.dylib          0x000000010fc1aac6 ibf_dump_iseq + 854
6  libruby.2.5.dylib          0x000000010fc1a30f iseq_ibf_dump + 415
7  libruby.2.5.dylib          0x000000010fc98dca iseqw_to_binary + 74
8  libruby.2.5.dylib          0x000000010fdb2af1 vm_call_cfunc + 289
9  libruby.2.5.dylib          0x000000010fd9e1f2 vm_exec_core + 11522
10 libruby.2.5.dylib          0x000000010fdad000 vm_exec + 144
11 libruby.2.5.dylib          0x000000010fc59131 ruby_exec_internal + 177
12 libruby.2.5.dylib          0x000000010fc59028 ruby_run_node + 56
13 ruby                       0x000000010fbe2f2f main + 79

-- Other runtime information -----

* Loaded script: -e

* Loaded features:

  0 enumerator.so
  1 thread.rb
  2 rational.so
  3 complex.so
  4 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/x86_64-darwin17/enc/encdb.bundle
  5 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/x86_64-darwin17/enc/trans/transd
b.bundle
  6 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/x86_64-darwin17/rbconfig.rb
  7 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/compatibility.rb
  8 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/defaults.rb
  9 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/deprecate.rb
 10 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/errors.rb
 11 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/version.rb
 12 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/requirement.rb
 13 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/platform.rb
 14 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/basic_specification.rb
 15 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/stub_specification.rb
 16 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/util/list.rb
 17 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/x86_64-darwin17/stringio.bundle
 18 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/rfc2396_parser.rb
 19 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/rfc3986_parser.rb
 20 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/common.rb
 21 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/generic.rb
 22 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/ftp.rb
 23 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/http.rb
 24 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/https.rb
 25 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/ldap.rb
 26 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/ldaps.rb
 27 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri/mailto.rb
 28 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/uri.rb
 29 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/specification.rb
 30 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/exceptions.rb
 31 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/dependency.rb
 32 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/core_ext/kernel_gem.rb
 33 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/monitor.rb
 34 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/core_ext/kernel_require
.rb
 35 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems.rb
 36 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/rubygems/path_support.rb
 37 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/version.rb
 38 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/core_ext/name_error.rb
 39 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/levenshtein.rb

```

```
40 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/jaro_winkler.rb
41 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checker.rb
42 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/2.5.0/delegate.rb
43 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checkers/name_error_checkers/class_name_checker.rb
44 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checkers/name_error_checkers/variable_name_checker.rb
45 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checkers/name_error_checkers.rb
46 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checkers/method_name_checker.rb
47 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checkers/key_error_checker.rb
48 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/spell_checkers/null_checker.rb
49 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean/formatters/plain_formatter.rb
50 /Users/tadashi-okawara/.rbenv/versions/2.5.1/lib/ruby/gems/2.5.0/gems/did_you_mean-1.2.0/lib
/did_you_mean.rb
```

[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>

[IMPORTANT]

Don't forget to include the Crash Report log file under DiagnosticReports directory in bug reports.

The same error occurs in following versions:

- ruby 2.5.0p0 (2017-12-25 revision 61468) [x86_64-darwin17]
- ruby 2.5.2p91 (2018-10-01 revision 64893) [x86_64-darwin17]
- ruby 2.6.0preview1 (2018-02-24 trunk 62554) [x86_64-darwin17]

The same error does not occur in following versions:

- ruby 2.6.0preview2 (2018-05-31 trunk 63539) [x86_64-darwin17]
- ruby 2.6.0dev (2018-10-03 trunk 64910) [x86_64-darwin17]

History

#1 - 10/04/2018 07:27 AM - nobu (Nobuyoshi Nakada)

- Is duplicate of Bug #14897: Unexpected behavior of `if` in specific code added

#2 - 10/04/2018 07:43 AM - nobu (Nobuyoshi Nakada)

- Is duplicate of deleted (Bug #14897: Unexpected behavior of `if` in specific code)

#3 - 10/04/2018 08:21 AM - nobu (Nobuyoshi Nakada)

Seems fixed by a series of commits: 61846 61913 62615 62621 62622 62772 62777 62778 62787 62791 62796 62807 62856 63098 63099 63101 63102 63103 63113 63116 63117 63118 63119 63167 63368

#4 - 10/04/2018 01:53 PM - wanabe (_ wanabe)

okwrtsh (Tadashi Okawara) wrote:

This throws an error:

```
$ ruby -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_binary'
```

It seems the same as <https://bugs.ruby-lang.org/issues/14553#note-3> = ruby-core:86400.

```
$ ./miniruby -v -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_binary; p :done'
```

```
ruby 2.6.0dev (2018-03-30 trunk 63040) [x86_64-linux]
:done
```

```
$ git checkout HEAD~
```

```
Previous HEAD position was 484cc6b3bc compile.c: do not dump unused callinfos
HEAD is now at c493503625 * 2018-03-30
```

```
$ (make REVISION_FORCE=PHONY incs; make miniruby -j4) > /dev/null
```

```
$ ./miniruby -v -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_binary; p :done'
ruby 2.6.0dev (2018-03-30 trunk 63039) [x86_64-linux]
-e:1: [BUG] Segmentation fault at 0x0000000000000000
ruby 2.6.0dev (2018-03-30 trunk 63039) [x86_64-linux]
```

```
-- Control frame information -----
(snip)
```

#5 - 10/09/2018 01:56 PM - nagachika (Tomoyuki Chikanaga)

- Backport changed from 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN to 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: REQUIRED

I don't think all of the changesets could be backported cleanly...
Anyway I set the Backport field for remembrance.

#6 - 02/14/2019 12:29 AM - wanabe (_ wanabe)

ruby_2_5 is fixed at r66130 that is the backport of r63040.

```
$ ./miniruby -v -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_binary; p :done'
ruby 2.5.4p117 (2018-12-02 revision 66130) [x86_64-linux]
:done
```

```
$ git checkout HEAD~
```

```
Previous HEAD position was 0812ab5fec merge revision(s) 63040: [Backport #14553]
HEAD is now at 0fa65358e0 merge revision(s) 65365:
```

```
$ (make REVISION_FORCE=PHONY incs; make miniruby -j4) > /dev/null
```

```
$ ./miniruby -v -e 'RubyVM::InstructionSequence.compile("if false\nfoo bar: 1\nend").to_binary; p :done'
ruby 2.5.4p116 (2018-12-01 revision 66112) [x86_64-linux]
-e:1: [BUG] Segmentation fault at 0x0000000000000000
ruby 2.5.4p116 (2018-12-01 revision 66112) [x86_64-linux]
```

```
-- Control frame information -----
(snip)
```

Files

ruby_2018-10-04-012836_P1097-17P15U.crash	36.7 KB	10/03/2018	okwrttdsh (Tadashi Okawara)
---	---------	------------	-----------------------------