

Ruby trunk - Bug #15382

Stack overflow in int_or()

12/05/2018 12:07 PM - fumfel (Kamil Frankowicz)

| | |
|---|---|
| Status: Closed | |
| Priority: Normal | |
| Assignee: | |
| Target version: | |
| ruby -v: ruby 2.6.0dev (2018-12-04 trunk 66199) [x86_64-linux] | Backport: 2.4: UNKNOWN, 2.5: UNKNOWN |
| Description After some fuzz testing I found a crashing test case. To reproduce: miniruby ruby_so_int_or Full ASAN report: https://gist.github.com/fumfel/0a2e01f2ab6794632d017bfd306ffac9 ASAN report: ==22120==ERROR: AddressSanitizer: stack-overflow on address 0x7ffe9d1dddf8 (pc 0x55d12a2abd28 bp 0x7ffe9d1de010 sp 0x7ffe9d1de000 T0) #0 0x55d12a2abd27 in int_or XYZ/ruby/numeric.c:4494 #1 0x55d12a714ae7 in vm_call_cfunc_with_frame XYZ/ruby/./vm_inshelper.c:1908:11 #2 0x55d12a714ae7 in vm_call_cfunc XYZ/ruby/./vm_inshelper.c:1924 #3 0x55d12a69d73b in vm_exec_core XYZ/ruby/insns.def:766:5 #4 0x55d12a6fc0ff in rb_vm_exec XYZ/ruby/vm.c:1876:22 #5 0x55d12a6cf136 in vm_call0_body XYZ/ruby/./vm_eval.c:127:13 #6 0x55d12a7387c1 in rb_vm_call0 XYZ/ruby/./vm_eval.c:60:12 #7 0x55d12a7387c1 in call_method_entry XYZ/ruby/./vm_method.c:1954 #8 0x55d12a6d2f89 in basic_obj_respond_to_missing XYZ/ruby/./vm_method.c:1971:12 #9 0x55d12a6d2f89 in check_funcall_missing XYZ/ruby/./vm_eval.c:374 #10 0x55d12a6d265e in rb_check_funcall_default XYZ/ruby/./vm_eval.c:420:14 #11 0x55d12a28d664 in do_coerce XYZ/ruby/numeric.c:424:17 #12 0x55d12a2ac03a in rb_num_coerce_bit XYZ/ruby/numeric.c:4424:5 #13 0x55d12a2ac03a in fix_or XYZ/ruby/numeric.c:4489 #14 0x55d12a2ac03a in int_or XYZ/ruby/numeric.c:4496 [----- SNIP -----] #378 0x55d12a2ac03a in int_or XYZ/ruby/numeric.c:4496 #379 0x55d12a714ae7 in vm_call_cfunc_with_frame XYZ/ruby/./vm_inshelper.c:1908:11 #380 0x55d12a714ae7 in vm_call_cfunc XYZ/ruby/./vm_inshelper.c:1924 #381 0x55d12a69d73b in vm_exec_core XYZ/ruby/insns.def:766:5 #382 0x55d12a6fc0ff in rb_vm_exec XYZ/ruby/vm.c:1876:22 #383 0x55d12a6cf136 in vm_call0_body XYZ/ruby/./vm_eval.c:127:13 #384 0x55d12a7387c1 in rb_vm_call0 XYZ/ruby/./vm_eval.c:60:12 #385 0x55d12a7387c1 in call_method_entry XYZ/ruby/./vm_method.c:1954 #386 0x55d12a6d2f89 in basic_obj_respond_to_missing XYZ/ruby/./vm_method.c:1971:12 #387 0x55d12a6d2f89 in check_funcall_missing XYZ/ruby/./vm_eval.c:374 #388 0x55d12a6d265e in rb_check_funcall_default XYZ/ruby/./vm_eval.c:420:14 SUMMARY: AddressSanitizer: stack-overflow XYZ/ruby/numeric.c:4494 in int_or ==22120==ABORTING | |

Associated revisions

Revision 76e3af82 - 12/06/2018 11:06 PM - nobu (Nobuyoshi Nakada)

Warn redefinitions of some methods on Object

[Bug #5473] [Bug #14670] [Bug #15382]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@66262 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 66262 - 12/06/2018 11:06 PM - nobu (Nobuyoshi Nakada)

Warn redefinitions of some methods on Object

[Bug #5473] [Bug #14670] [Bug #15382]

Revision 66262 - 12/06/2018 11:06 PM - nobu (Nobuyoshi Nakada)

Warn redefinitions of some methods on Object

[Bug #5473] [Bug #14670] [Bug #15382]

History

#1 - 12/05/2018 01:04 PM - mame (Yusuke Endoh)

Briefly investigated. This is an infinite recursion.

Simplified version:

```
def respond_to_missing?(s, f)
  0 + "foo"
end
0.respond_to?(:foo)
```

0 + "foo" calls coerce, which calls respond_to_missing? recursively.

#2 - 12/05/2018 05:03 PM - nobu (Nobuyoshi Nakada)

Overwriting these methods also should be warned, as Object#initialize?

<https://github.com/nobu/ruby/pull/new/bug/15382-warn-redef>

#3 - 12/06/2018 11:06 PM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

Applied in changeset [trunk|r66262](#).

Warn redefinitions of some methods on Object

[Bug #5473] [Bug #14670] [Bug #15382]

Files

| | | | |
|----------------|----------|------------|---------------------------|
| ruby_so_int_or | 59 Bytes | 12/05/2018 | fumfel (Kamil Frankowicz) |
|----------------|----------|------------|---------------------------|