Ruby master - Bug #18458

Segmentation fault when missing Warning#warn method

01/04/2022 02:21 PM - etienne (Étienne Barrié)

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
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<tr>
<td>Assignee:</td>
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<tr>
<td>Target version:</td>
<td>ruby -v: 3.1.0p0</td>
</tr>
<tr>
<td>Backport:</td>
<td>2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONE, 3.1: DONE</td>
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Description

If you remove the Warning#warn method and call Kernel#warn, you get a segmentation fault:

ruby 3.1.0:

$ ruby -e 'Warning.undef_method(:warn); warn ""' 2>&1 | head -2

<internal:warning>:51: [BUG] Segmentation fault at 0x0000000000000010
ruby 3.1.0p0 (2021-12-25 revision fb4df44d16) [x86_64-darwin21]

It's not new, you get the same with 3.0.3:

$ ruby -e 'Warning.undef_method(:warn); warn ""' 2>&1 | head -2

<internal:warning>:51: [BUG] Segmentation fault at 0x0000000000000010
ruby 3.0.3p157 (2021-11-24 revision 3fb7d2cadc) [x86_64-darwin20]

In 2.7 though you get a NoMethodError exception:

$ ruby --disable-all -e 'Warning.undef_method(:warn); warn ""'

Traceback (most recent call last):
  1: from -e:1:in `<main>'
<internal:warning>:43:in `warn': undefined method `warn' for Warning:Module (NoMethodError)

(I disabled gems because rubygems core extensions adds two lines of backtrace, but it's the same result in the end)

Associated revisions

Revision 9e0a91d0 - 01/04/2022 06:03 PM - jeremyevans (Jeremy Evans)

Don't segfault if Warning.warn is undefined

Check that there is a method entry for the method before passing it to rb_method_entry_arity.

Fixes [Bug #18458]

Revision d3a2a3c5 - 01/30/2022 10:02 AM - naruse (Yui NARUSE)

merge revision(s) 9e0a91d0640600f2dfd76c1d5f9f66667019c9ca5: [Backport #18458]

Don't segfault if Warning.warn is undefined

Check that there is a method entry for the method before passing it to rb_method_entry_arity.

Fixes [Bug #18458]

---

error.c | 3 ++-
test/ruby/test_exception.rb | 8 +++++++
2 files changed, 10 insertions(+), 1 deletion(-)
Don't segfault if Warning.warn is undefined

Check that there is a method entry for the method before passing it to `rb_method_entry_arity`.

Fixes [Bug #18458]

---
error.c | 3 ++-
test/ruby/test_exception.rb | 8 +++++++
2 files changed, 10 insertions(+), 1 deletion(-)

History

#1 - 01/04/2022 05:15 PM - jeremyevans0 (Jeremy Evans)
Pull requested submitted to fix this: https://github.com/ruby/ruby/pull/5391

#2 - 01/04/2022 05:42 PM - jeremyevans0 (Jeremy Evans)
- Backport changed from 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN, 3.1: UNKNOWN to 2.6: DONTNEED, 2.7: DONTNEED, 3.0: REQUIRED, 3.1: REQUIRED

#3 - 01/04/2022 06:03 PM - jeremyevans (Jeremy Evans)
- Status changed from Open to Closed

Applied in changeset qilt9e0a91d0640600f2dfd7fc1d5fae6667019c9ca5.

#4 - 01/30/2022 10:06 AM - naruse (Yui NARUSE)
- Backport changed from 2.6: DONTNEED, 2.7: DONTNEED, 3.0: REQUIRED, 3.1: REQUIRED to 2.6: DONTNEED, 2.7: DONTNEED, 3.0: REQUIRED, 3.1: DONE

ruby_3_1 d3a2a3c5420fcede654e6fbd9287bced5c8f03 merged revision(s) 9e0a91d0640600f2dfd7fc1d5fae6667019c9ca5.

#5 - 03/12/2022 07:57 AM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.6: DONTNEED, 2.7: DONTNEED, 3.0: REQUIRED, 3.1: DONE to 2.6: DONTNEED, 2.7: DONTNEED, 3.0: DONE, 3.1: DONE

ruby_3_0 e18e6af60476be481115c7340c1450332615b57 merged revision(s) 9e0a91d0640600f2dfd7fc1d5fae6667019c9ca5.