Ruby - Bug #3690

method_missing in a BasicObject's singleton class - infinite recursion segfaults

08/13/2010 10:07 PM - rbjl (Jan Lelis)

Status: Rejected **Priority:** Normal

Assignee:

Target version:

ruby -v: ruby 1.9.3dev (2010-05-26 trunk 28028)

[i686-linux]

Backport:

Description

=begin

segfaults with all versions that I tested (1.9.3, 1.9.2, 1.9.1)

obj = BasicObject.new

def obj.method missing(m, *args, &block) send(m, *args, &block)

puts obj.seg end=

History

#1 - 08/14/2010 10:29 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Rejected

=begin

Yes, it does recurse infinitely with any objects.

That's what you code does.

=end

#2 - 08/15/2010 12:34 AM - rbjl (Jan Lelis)

But it does not throw a SystemStackError

#3 - 08/15/2010 01:50 AM - RickDeNatale (Rick DeNatale)

Well it does on my Mac

 \rightarrow rvm use 1.9.2

Using ruby 1.9.2 preview1

→ ruby -e'obj = BasicObject.new

quote> def obj.method missing(m, *args, &block)

quote> send(m, *args, &block) quote> end

quote>

quote> puts obj.seg'

-e:4:in method_missing': stack level too deep (SystemStackError) from -e:4:in method_missing'

from -e:4:in method_missing' from -e:4:in method_missing'

from -e:4:in method_missing' from -e:4:in method_missing'

from -e:4:in method_missing' from -e:4:in method_missing'

from -e:4:in method missing' ... 1253 levels... from -e:4:in method missing'

from -e:4:in method_missing' from -e:4:in method_missing'

from -e:7:in `'

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#4 - 08/15/2010 02:25 AM - runpaint (Run Paint Run Run)

- File segfault added

=begin

I can reproduce on ruby 1.9.3dev (2010-08-13 trunk 28973) [i686-linux] with the OP's script. Attached the output. =end

#5 - 08/15/2010 02:45 AM - Eregon (Benoit Daloze)

=begin

On 14 August 2010 17:34, Jan Lelis redmine@ruby-lang.org wrote:

Issue #3690 has been updated by Jan Lelis.

But it does not throw a SystemStackError

At me (OS X), it depends quite much. (ruby 1.9.3dev (2010-08-13) [x86_64-darwin10.4.0], ruby 1.9.2dev (2010-08-09 revision 28936) [x86_64-darwin10.4.0])

Running with 1.9.{2,3} as a script produce a SystemStackError.

However, sometimes, running in IRB or with 'GC.stress = true' cause segfault, with 1.9.3.

So it is a 1.9.3-specific problem at me. (1.9.2 with GC.stress take a while so I suppose there is no problem)

B.D.

=end

#6 - 08/18/2010 12:12 AM - rbjl (Jan Lelis)

- File seg.txt added

=begin

=end

Files

segfault	313 KB	08/15/2010	runpaint (Run Paint Run Run)
seg.txt	314 KB	08/18/2010	rbjl (Jan Lelis)

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