marshaling an object by a float does not work

The below calls object doesn't round trip through marshal on edge ruby:

def test_marshal_object_and_float
  e = Object.new
  calls = []
calls << [2.0, e]
calls << [e]
assert_equal calls, Marshal.load(Marshal.dump(calls))
end

When I run this test case, for some reason, the float takes the place of the object in the second array:

[36/82] TestMarshal#test_marshal_object_and_float = 0.00 s

1) Failure:
test_marshal_object_and_float(TestMarshal) [/Users/aaron/git/ruby/test/ruby/test_marshal.rb:40]:
<[[2.0, #Object:0x007fa5c20b08a0], [#Object:0x007fa5c20b08a0]]> expected but was
<[[2.0, #Object:0x007fa5c20b05a8], [2.0]]>.

I've attached a failing test case.

Associated revisions

Revision 1451668f - 11/16/2012 03:55 PM - nagachika (Tomoyuki Chikanaga)

- marshal.c (w_object): add flonum to arg->data to keep reference index consistency. [ruby-core:49323] [Bug #7348]
- test/ruby/test_marshal.rb: add a test for above.

Revision 37687 - 11/16/2012 03:55 PM - nagachika (Tomoyuki Chikanaga)

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Revision 42995 - 09/20/2013 03:24 PM - zzak (Zachary Scott)

• ext.openssl/lib.openssl/ssl.rb: [DOC] Document OpenSSL::SSLServer Based on a patch by Rafal Lisowski [Bug #7348]
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09/23/2021
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History

#1 - 11/14/2012 11:14 AM - mrkn (Kenta Murata)

irb(main):006:0> e = Object.new
irb(main):007:0> Marshal.load(Marshal.dump(2.0e-100, e)]
=> 
Therefore it is related to flonum.

#2 - 11/14/2012 11:32 AM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned
- Assignee set to ko1 (Koichi Sasada)

#3 - 11/16/2012 02:38 PM - nagachika (Tomoyuki Chikanaga)

- File flonum_marshal_dump.patch added
- Category set to core
- Assignee changed from ko1 (Koichi Sasada) to nagachika (Tomoyuki Chikanaga)
- Target version set to 2.0.0

hello,

I've investigated about this issue.
When flonum is introduced at r36798, flonum is treated as immediate value in w_object(), but is should treated as reference value.
I will attach a patch. This patch introduce a trivial incompatibility. All flonum of same value are dumped as reference of same Float object. I don't think this is not a practical problem.

(on flonum supported environment)
a = [2.0, 2.0, 2.0]
File.write("dump.txt", Marshal.dump(a))

(on flonum not supported environment)
a = Marshal.load(File.read("dump.txt"))
a.map{|f.object_id} # => [70180445290980, 70180445290980, 70180445290980]

If there's no objection, I'll check-in it tonight (in JST).

#4 - 11/17/2012 12:56 AM - nagachika (Tomoyuki Chikanaga)

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

This issue was solved with changeset r37687.
Aaron, thank you for reporting this issue.
Your contribution to Ruby is greatly appreciated.
May Ruby be with you.

- marshal.c (w_object): add flonum to arg->data to keep reference index consistency. [ruby-core:49323] [Bug #7348]

- test/ruby/test_marshal.rb: add a test for above.

#5 - 09/21/2013 12:25 AM - zzak (Zachary Scott)
commit miss orz

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<th>Files</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
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<td>marshal_fail.patch</td>
<td>556 Bytes</td>
<td>11/14/2012</td>
<td>tenderlovemaking (Aaron Patterson)</td>
</tr>
<tr>
<td>flonum_marshall_dump.patch</td>
<td>954 Bytes</td>
<td>11/16/2012</td>
<td>nagachika (Tomoyuki Chikanaga)</td>
</tr>
</tbody>
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