

## Ruby - Bug #7348

### marshaling an object by a float does not work

11/14/2012 09:20 AM - tenderlovmaking (Aaron Patterson)

|                                                                                                                                                                                                                                                    |                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>Status:</b> Closed                                                                                                                                                                                                                              |                  |
| <b>Priority:</b> Normal                                                                                                                                                                                                                            |                  |
| <b>Assignee:</b> nagachika (Tomoyuki Chikanaga)                                                                                                                                                                                                    |                  |
| <b>Target version:</b> 2.0.0                                                                                                                                                                                                                       |                  |
| <b>ruby -v:</b> ruby 2.0.0dev (2012-11-14 trunk 37650)<br>[x86_64-darwin12.2.1]                                                                                                                                                                    | <b>Backport:</b> |
| <b>Description</b>                                                                                                                                                                                                                                 |                  |
| The below calls object doesn't round trip through marshal on edge ruby:                                                                                                                                                                            |                  |
| <pre>def test_marshal_object_and_float e = Object.new calls = [] calls &lt;&lt; [2.0, e] calls &lt;&lt; [e] assert_equal calls, Marshal.load(Marshal.dump(calls)) end</pre>                                                                        |                  |
| 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:<br>test_marshal_object_and_float(TestMarshal) [/Users/aaron/git/ruby/test/ruby/test_marshal.rb:40]:<br><[[2.0, #Object:0x007fa5c20b08a0], [#Object:0x007fa5c20b08a0]]> expected but was<br><[[2.0, #Object:0x007fa5c20b05a8], [2.0]]>. |                  |
| I've attached a failing test case.                                                                                                                                                                                                                 |                  |

#### Associated revisions

**Revision f45f668fa14104dab9c0e7712b6f3a3ab3d26558 - 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.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@37687 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

**Revision f45f668f - 11/16/2012 03:55 PM - nagachika (Tomoyuki Chikanaga)**

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**Revision 0f448061dec46ee8c396c772586ea560746dfe5e - 09/20/2013 03:24 PM - zzak (zzak \_)**

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

**Revision 0f448061 - 09/20/2013 03:24 PM - zzak (zzak \_)**

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

## History

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**#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], [e]]))
=> [[2.0e-100, #Object:0x007fa45a10bc28], [#Object:0x007fa45a10bc28]]
```

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\_marshall\_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| 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.

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

**#5 - 09/21/2013 12:25 AM - zzak (zzak \_)**

commit miss orz

## Files

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|                           |           |            |                                   |
|---------------------------|-----------|------------|-----------------------------------|
| marshal_fail.patch        | 556 Bytes | 11/14/2012 | tenderlovmaking (Aaron Patterson) |
| flonum_marshal_dump.patch | 954 Bytes | 11/16/2012 | nagachika (Tomoyuki Chikanaga)    |