

## Ruby trunk - Bug #7607

### TypeError: invalid inspect\_tbl pair\_list on Windows 8

12/23/2012 11:44 AM - phasis68 (Heesob Park)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> usa (Usaku NAKAMURA)	
<b>Target version:</b>	
<b>ruby -v:</b> ruby 2.0.0dev (2012-12-23 trunk 38564) [x64-mswin64_110]	<b>Backport:</b> 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN
<b>Description</b>	
The changeset <a href="#">r38548</a> caused following test failures on x64 Windows 8.	
2) Error: test_self_referential(Psych::TestArray): TypeError: invalid inspect_tbl pair_list for := in # C:/work/snapshot-ms64/test/psych/helper.rb:36:in assert_cycle' C:/work/snapshot-ms64/test/psych/test_array.rb:50:in test_self_referential' C:/work/snapshot-ms64/lib/test/unit.rb:651:in block in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:649:ineach' C:/work/snapshot-ms64/lib/test/unit.rb:649:in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:21:inrun' C:/work/snapshot-ms64/lib/test/unit.rb:768:in run' C:/work/snapshot-ms64/lib/test/unit.rb:828:inrun' C:/work/snapshot-ms64/lib/test/unit.rb:832:in run' ./test/runner.rb:17:in'	
3) Error: test_self_referential(Psych::TestHash): TypeError: invalid inspect_tbl pair_list for := in # C:/work/snapshot-ms64/test/psych/helper.rb:36:in assert_cycle' C:/work/snapshot-ms64/test/psych/test_hash.rb:26:in test_self_referential' C:/work/snapshot-ms64/lib/test/unit.rb:651:in block in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:649:ineach' C:/work/snapshot-ms64/lib/test/unit.rb:649:in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:21:inrun' C:/work/snapshot-ms64/lib/test/unit.rb:768:in run' C:/work/snapshot-ms64/lib/test/unit.rb:828:inrun' C:/work/snapshot-ms64/lib/test/unit.rb:832:in run' ./test/runner.rb:17:in'	
4) Error: test_self_referential(Psych::TestOmap): TypeError: invalid inspect_tbl pair_list for := in # C:/work/snapshot-ms64/test/psych/test_omap.rb:16:in test_self_referential' C:/work/snapshot-ms64/lib/test/unit.rb:651:inblock in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:649:in each' C:/work/snapshot-ms64/lib/test/unit.rb:649:in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:21:in run' C:/work/snapshot-ms64/lib/test/unit.rb:768:inrun' C:/work/snapshot-ms64/lib/test/unit.rb:828:in run' C:/work/snapshot-ms64/lib/test/unit.rb:832:inrun' ./test/runner.rb:17:in ``	
5) Error: test_set_self_reference(Psych::TestSet): TypeError: invalid inspect_tbl pair_list for := in # C:/work/snapshot-ms64/test/psych/helper.rb:36:in assert_cycle' C:/work/snapshot-ms64/test/psych/test_set.rb:46:in test_set_self_reference'  C:/work/snapshot-ms64/lib/test/unit.rb:651:in `block in _run_suites' C:/work/snapshot-ms64/lib/test/unit.rb:649:in `each'	

```
C:/work/snapshot-ms64/lib/test/unit.rb:649:in `*_run_suites'  
C:/work/snapshot-ms64/lib/test/unit.rb:21:in `run'  
C:/work/snapshot-ms64/lib/test/unit.rb:768:in `run'  
C:/work/snapshot-ms64/lib/test/unit.rb:828:in `run'  
C:/work/snapshot-ms64/lib/test/unit.rb:832:in `run'  
./test/runner.rb:17:in `<main>'
```

#### 6) Error:

```
test_self_referential_struct(Psych::TestStruct):  
TypeError: invalid inspect_tbl pair_list for := in #  
C:/work/snapshot-ms64/test/psych/test_struct.rb:27:in test_self_referential_struct'  
C:/work/snapshot-ms64/lib/test/unit.rb:651:inblock in *_run_suites'  
C:/work/snapshot-ms64/lib/test/unit.rb:649:in each'  

```

#### 24) Failure:

```
test_class_nonascii(TestMarshal) [C:/work/snapshot-ms64/test/ruby/test_marshall.rb:302]:  
.  
Exception raised:  
<#>.
```

#### 53) Error:

```
test_comparison_when_recursive(TestRange):  
TypeError: invalid inspect_tbl pair_list for := in #  
C:/work/snapshot-ms64/test/ruby/test_range.rb:322:in =='  
C:/work/snapshot-ms64/test/ruby/test_range.rb:322:inblock in test_comparison_when_recursive'  
C:/work/snapshot-ms64/lib/timeout.rb:65:in timeout'  
C:/work/snapshot-ms64/test/ruby/test_range.rb:321:in test_comparison_when_recursive'
```

#### 57) Error:

```
test_comparison_when_recursive(TestStruct):  
TypeError: invalid inspect_tbl pair_list for := in #  
C:/work/snapshot-ms64/test/ruby/test_struct.rb:243:in =='  
C:/work/snapshot-ms64/test/ruby/test_struct.rb:243:inblock in test_comparison_when_recursive'  
C:/work/snapshot-ms64/lib/timeout.rb:65:in timeout'  
C:/work/snapshot-ms64/test/ruby/test_struct.rb:242:in test_comparison_when_recursive'
```

## Associated revisions

### Revision 38595 - 12/25/2012 10:14 AM - usa (Usaku NAKAMURA)

- bignum.c, include/ruby/intern.h (rb\_big\_eq!): exported.
- thread.c (recursive\_check): object\_id maybe a Bignum, not Fixnum on LLP64. see also r38493 and r38548.  
reported by Heesob Park at [ruby-core:51083] [Bug #7607], and patched by shirosaki at [ruby-core:51095]

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**History**

## #1 - 12/23/2012 09:57 PM - phasis68 (Heesob Park)

Here is patch for this bug:

```
diff --git a/thread.c b/thread.c.new
index b7ae84c..9ef3d82 100644
--- a/thread.c
+++ b/thread.c.new
@@ -4591,7 +4591,11 @@ recursive_check(VALUE list, VALUE obj_id, VALUE paired_obj_id)
return Qfalse;
if (paired_obj_id) {
if (!RB_TYPE_P(pair_list, T_HASH)) {
+ #if SIZEOF_LONG == SIZEOF_VOIDP
if (pair_list != paired_obj_id)
+ #elif SIZEOF_LONG_LONG == SIZEOF_VOIDP
+ if (!rb_eq(pair_list, paired_obj_id))
+ #endif
return Qfalse;
}
else {
```

## #2 - 12/24/2012 01:20 AM - h.shirosaki (Hiroshi Shirosaki)

- File *bignum\_objid.patch* added
- Status changed from Open to Assigned
- Assignee set to *usa* (Usaku NAKAMURA)

This seems cause of [r38493](#), not [r38548](#).

I confirmed this issue by the following test on x64 Win7.

I've attached a patch which would be more inexpensive way since avoiding `rb_funcall()` usage.

```
require 'test/unit'
```

```
class ObjectIdTest < Test::Unit::TestCase
```

```
def test_self_referential_hash_equal_for_bignum_object_id
GC.disable
loop do
" " * 1000000
a = { :a => 'b' }
b = a.dup
a['self'] = a
b['self'] = b
p a.object_id.class
assert_equal(a, b)
break if a.object_id.class == Bignum
end
end
end
```

**#3 - 12/25/2012 10:10 AM - usa (Usaku NAKAMURA)**

- Priority changed from Normal to 5

I think this is a serious bug, and shirosaki-san's patch seems OK.  
I want to backport this to 1.9.3 before releasing, but now trunk is under code freeze, I know.

But... I don't have time to wait for mame-san's reaction.  
So, on my responsibility, please commit this patch to trunk, shirosaki-san.  
mame-san, if you feel this is wrong decision, please reproach me.

**#4 - 12/25/2012 07:14 PM - usa (Usaku NAKAMURA)**

- Status changed from Assigned to Closed

- % Done changed from 0 to 100

This issue was solved with changeset [r38595](#).  
Heesob, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

- 
- bignum.c, include/ruby/intern.h (rb\_big\_eq): exported.
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reported by Heesob Park at [Bug [#7607](#)], and patched by shirosaki at

**#5 - 12/25/2012 07:23 PM - usa (Usaku NAKAMURA)**

Hello,

In message "[ruby-trunk - Bug [#7607](#)] TypeError: invalid inspect\_tbl pair\_list on Windows 8"  
on Dec.25,2012 10:11:37, [usa@garbagecollect.jp](mailto:usa@garbagecollect.jp) wrote:

I want to backport this to 1.9.3 before releasing, but now trunk is under code freeze, I know.

... mame-san said "25 Dec. 2012: code freeze", but I've noticed  
that we are still able to commit today!

So, on my responsibility, please commit this patch to trunk, shirosaki-san.

I'll commit in a substitute.

Regards,

--

U.Nakamura [usa@garbagecollect.jp](mailto:usa@garbagecollect.jp)

## Files

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bignum_objid.patch	1.94 KB	12/24/2012	h.shirosaki (Hiroshi Shirosaki)
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