

## 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

#### Description

The changeset [r38548](#) 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:intest_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:intest_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:intest_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 `'
```

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'  
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 `*
```

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 a3d96724 - 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]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@38595 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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**Revision 8e095cea - 12/25/2012 11:42 AM - usa (Usaku NAKAMURA)**

merge revision(s) 38595,38596: [Backport #7607]

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by shirosaki at [ruby-core:51095]
```

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@38598 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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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 (lrb_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.
  - `thread.c` (`recursive_check`): `object_id` maybe a `Bignum`, not `Fixnum` on LLP64. see also [r38493](#) and [r38548](#). 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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