

## Ruby - Bug #5172

### [PATCH] bigdecimal: RB\_GC\_GUARD rb\_inspect() output

08/09/2011 08:46 AM - normalperson (Eric Wong)

|                                                                                                                                                                                                                   |                                                          |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|
| <b>Status:</b>                                                                                                                                                                                                    | Closed                                                   | <b>Backport:</b> |
| <b>Priority:</b>                                                                                                                                                                                                  | Normal                                                   |                  |
| <b>Assignee:</b>                                                                                                                                                                                                  | mrkn (Kenta Murata)                                      |                  |
| <b>Target version:</b>                                                                                                                                                                                            | 2.0.0                                                    |                  |
| <b>ruby -v:</b>                                                                                                                                                                                                   | ruby 1.9.4dev (2011-08-07 trunk 32885)<br>[x86_64-linux] |                  |
| <b>Description</b>                                                                                                                                                                                                |                                                          |                  |
| ext/bigdecimal/bigdecimal.c: RB_GC_GUARD rb_inspect() output                                                                                                                                                      |                                                          |                  |
| We can't directly use RSTRING_PTR() on rb_inspect() because the GC may collect the VALUE returned by rb_inspect(). This is a problem for Symbols with long names that return non-embedded Strings when inspected. |                                                          |                  |
| test/bigdecimal/test_bigdecimal.rb (test_gc): updated for BigDecimal#coerce<br>test/bigdecimal/test_bigmath.rb (test_gc): added test case                                                                         |                                                          |                  |

#### Associated revisions

##### Revision bc6c037f - 08/17/2011 06:52 AM - Kenta Murata

Merge commit r32996 from trunk:

- \* ext/bigdecimal/bigdecimal.c (cannot\_be\_coerced\_into\_BigDecimal): add a new function for raising error when an object cannot coerce into BigDecimal. [Bug #5172]

- \* ext/bigdecimal/bigdecimal.c (BigDecimalValueWithPrec): use cannot\_be\_coerced\_into\_BigDecimal function.

- \* ext/bigdecimal/bigdecimal.c (BigMath\_s\_exp): ditto.

- \* ext/bigdecimal/bigdecimal.c (BigMath\_s\_log): ditto.

- \* test/bigdecimal/test\_bigdecimal.rb: test for the above changes.

- \* test/bigdecimal/testbase.rb (under\_gc\_stress): add a new utility method to run tests under the condition of GC.stress = true.

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/branches/ruby\_1\_9\_3@32997 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

#### History

##### #1 - 08/09/2011 08:52 AM - mrkn (Kenta Murata)

- Assignee set to mrkn (Kenta Murata)

##### #2 - 08/09/2011 08:59 AM - normalperson (Eric Wong)

Eric Wong [normalperson@yhbt.net](mailto:normalperson@yhbt.net) wrote:

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Bug #5172: [PATCH] bigdecimal: RB\_GC\_GUARD rb\_inspect() output  
<http://redmine.ruby-lang.org/issues/5172>

If you prefer: git pull git://bogomips.org/ruby bigdecimal-gc-guard

Also, I noticed the following in ext/tk/tkutil/tkutil.c:

```
rb_warning("fail to convert '%s' to string for Tk",
           RSTRING_PTR(rb_funcall(obj, rb_intern("inspect"), 0,
                                0)));
```

```
id = rb_intern(RSTRING_PTR(rb_str_cat2(rb_str_new2("@"), str)));
```

I don't use or know the Tk ext at all, but the above examples do not appear safe from a GC perspective.

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**#3 - 08/17/2011 10:51 AM - mrkn (Kenta Murata)**

Would you please a new ticket for the issue of tk.

**#4 - 09/06/2011 09:37 PM - mrkn (Kenta Murata)**

- Status changed from Open to Closed

- % Done changed from 0 to 100

This issue was solved with changeset r32997.

Eric, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

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Merge commit r32996 from trunk:

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add a new function for raising error when an object cannot coerce

into BigDecimal. [Bug [#5172](#)]

- \* ext/bigdecimal/bigdecimal.c (BigDecimalValueWithPrec): use

cannot\_be\_coerced\_into\_BigDecimal function.

- \* ext/bigdecimal/bigdecimal.c (BigMath\_s\_exp): ditto.

- \* ext/bigdecimal/bigdecimal.c (BigMath\_s\_log): ditto.

- \* test/bigdecimal/test\_bigdecimal.rb: test for the above changes.

- \* test/bigdecimal/testbase.rb (under\_gc\_stress): add a new utility

method to run tests under the condition of GC.stress = true.

**Files**

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0001-ext-bigdecimal-bigdecimal.c-RB\_GC\_GUARD-rb\_inspect-o.patch4.06 KB

08/09/2011

normalperson (Eric Wong)