

Ruby trunk - Bug #5172

[PATCH] bigdecimal: RB_GC_GUARD rb_inspect() output

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

Status:	Closed	
Priority:	Normal	
Assignee:	mrkn (Kenta Murata)	
Target version:	2.0.0	
ruby -v:	ruby 1.9.4dev (2011-08-07 trunk 32885) [x86_64-linux]	Backport:

Description

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
test/bigdecimal/test_bigmath.rb (test_gc): added test case

Associated revisions

Revision bc6c037f - 08/17/2011 06:52 AM - mrkn (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 wrote:

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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Eric Wong

#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.

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 avobe changes.

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

Files

0001-ext-bigdecimal-bigdecimal.c-RB_GC_GUARD-rb_inspect-o.patch#06 KB

08/09/2011

normalperson (Eric Wong)