ruby master - 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] |

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@vhbt.net wrote:

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

- 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 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
0001-ext-bigdecimal-bigdecimal.c-RB_GC_GUARD-rb_inspect-o.patch 08/09/2011 normalperson (Eric Wong)