Hi, there

I wrote a script to test Marshal dump/load with many time object (see attachment).

Basic idea is:
1) A is container of time, it contains 100,000 time instance (all Time.now).
2) dump/load A by using Marshal, expected behavior is all the time zone must same as Time.now.zone

but I get different things or unreadable code in some Time instance by calling time.zone.
mostly it's "UTF-8".

env: Mac 10.9.2, ruby: ruby 2.1.1-p76

PS: it's fine while A contain 10,000 time instance

Associated revisions

Revision e0a0edf5 - 03/19/2014 08:19 AM - normal

time.c: freeze and preserve marshal-loaded time zone

We need to prevent vtm.zone from pointing to a GC-ed string buffer.
The rb_copy_generic_ivar call misses it because get_attr deleted it.
Thanks to nobu for the rb_str_new_frozen suggestion.

- time.c (time_mload): freeze and preserve marshal-loaded time zone
- test/ruby/test_time.rb: add test for GC on loaded object [Bug #9652]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45364 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45364 - 03/19/2014 08:19 AM - normal

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Revision 45364 - 03/19/2014 08:19 AM - normalperson (Eric Wong)

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Revision f664ff5 - 03/24/2014 08:02 AM - naruse (Yui NARUSE)
Asia/Tokyo is more portable value for ENV["TZ"] [Bug #9652]

FreeBSD doesn't accept "Japan".
git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@45395 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 45395 - 03/24/2014 08:02 AM - naruse (Yui NARUSE)
Asia/Tokyo is more portable value for ENV["TZ"] [Bug #9652]

FreeBSD doesn't accept "Japan".

Revision 45395 - 03/24/2014 08:02 AM - naruse (Yui NARUSE)
Asia/Tokyo is more portable value for ENV["TZ"] [Bug #9652]

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Revision 45395 - 03/24/2014 08:02 AM - naruse (Yui NARUSE)
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Revision 45395 - 03/24/2014 08:02 AM - naruse (Yui NARUSE)
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Revision 45395 - 03/24/2014 08:02 AM - naruse (Yui NARUSE)
Asia/Tokyo is more portable value for ENV["TZ"] [Bug #9652]

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Revision 69c80f18 - 03/25/2014 06:55 AM - usa (Usaku NAKAMURA)

- test/ruby/test_time.rb: use portable time zone. see [ruby-core:61671] [Bug #9652]

Revision 45403 - 03/25/2014 06:55 AM - usa (Usaku NAKAMURA)

- test/ruby/test_time.rb: use portable time zone. see [ruby-core:61671] [Bug #9652]

Revision 45403 - 03/25/2014 06:55 AM - usa (Usaku NAKAMURA)

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Revision 45403 - 03/25/2014 06:55 AM - usa (Usaku NAKAMURA)

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Revision 45403 - 03/25/2014 06:55 AM - usa (Usaku NAKAMURA)

- test/ruby/test_time.rb: use portable time zone. see [ruby-core:61671] [Bug #9652]

Revision 45403 - 03/25/2014 06:55 AM - usa (Usaku NAKAMURA)

- test/ruby/test_time.rb: use portable time zone. see [ruby-core:61671] [Bug #9652]

Revisions 45364, 45395, 45396, 45403, 45406: [Backport #9652]

* time.c (time_mload): freeze and preserve marshal-loaded time zone
* test/ruby/test_time.rb: add test for GC on loaded object
  [Bug #9652]

Revision 45752 - 04/30/2014 07:34 AM - usa (Usaku NAKAMURA)
merge revision(s) 45364,45395,45396,45403,45406: [Backport #9652]

* time.c (time_mload): freeze and preserve marshal-loaded time zone
* test/ruby/test_time.rb: add test for GC on loaded object
  [Bug #9652]

Revision 282462b2 - 06/01/2014 05:17 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45364,r45395,r45396,r45403,r45406: [Backport #9652]

* time.c (time_mload): freeze and preserve marshal-loaded time zone
* test/ruby/test_time.rb: add test for GC on loaded object
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Revision 282462b2 - 06/01/2014 05:17 PM - nagachika (Tomoyuki Chikanaga)
merge revision(s) r45364,r45395,r45396,r45403,r45406: [Backport #9652]

* time.c (time_mload): freeze and preserve marshal-loaded time zone
* test/ruby/test_time.rb: add test for GC on loaded object
  [Bug #9652]
Revision 46304 - 06/01/2014 05:17 PM - nagachika (Tomoyuki Chikanaga)

merge revision(s) r45364,r45395,r45396,r45403,r45406: [Backport #9652]

* time.c (time_mload): freeze and preserve marshal-loaded time zone
* test/ruby/test_time.rb: add test for GC on loaded object

[Bug #9652]

History

#1 - 03/19/2014 07:28 AM - normalperson (Eric Wong)

I cannot reproduce the problem here, however it could be the lack of reference for GC.

Can you add this rb_ivar_set call?

--- a/time.c
+++ b/time.c
@@ -4828,6 +4828,7 @@ end_submicro: ;

   if (!NIL_P(zone)) {
     tobj->vtm.zone = RSTRING_PTR(zone);
 +    rb_ivar_set(str, id_zone, zone);
   }

 return time;

Also at: git://80x24.org/ruby.git time-load-zone
http://bogomips.org/ruby.git/patch?id=9418df96145

#2 - 03/19/2014 07:37 AM - nobu (Nobuyoshi Nakada)

Seems better to call rb_str_new_frozen() before setting vtm.zone.

#3 - 03/19/2014 07:48 AM - normalperson (Eric Wong)

nobu@ruby-lang.org wrote:

Seems better to call rb_str_new_frozen() before setting vtm.zone.

OK. Though rb_fstring() might be better because time objects with identical zones are common.

#4 - 03/19/2014 08:10 AM - normalperson (Eric Wong)

normalperson@yhbt.net wrote:

   nobu@ruby-lang.org wrote:

      Seems better to call rb_str_new_frozen() before setting vtm.zone.

      OK. Though rb_fstring() might be better because time objects with identical zones are common.

      Or not, don't want potential untrusted sources populating the fstring table; either. Will commit w/ str_new_frozen + test case.

#5 - 03/19/2014 08:19 AM - Anonymous

- Status changed from Open to Closed
- % Done changed from 0 to 100

Applied in changeset r45364.

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#6 - 03/19/2014 08:28 AM - normalperson (Eric Wong)
Thanks all, committed as r45364
Sorry my original patch set the ivar on the wrong object :x
But fortunately I was able to reproduce the GC error and test for it.

#7 - 03/19/2014 01:22 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.0.0: UNKNOWN, 2.1: UNKNOWN to 2.0.0: REQUIRED, 2.1: REQUIRED

#8 - 03/25/2014 06:49 AM - usa (Usaku NAKAMURA)
r45364 introduced a test failure on Windows, and r45395 didn't fix it.
After all, there is no portabi time zone name, I guess.
Doesn't someone think of a better test?

#9 - 03/25/2014 06:11 PM - normalperson (Eric Wong)
usa@garbagecollect.jp wrote:

   r45364 introduced a test failure on Windows, and r45395 didn't fix it.
   After all, there is no portabi time zone name, I guess.
   Doesn't someone think of a better test?

Sorry about the portability problems. r45403 works for me on a GNU system.
If all else fails, maybe only enable TZ setting tests on a few platforms
like test/ruby/test_time_tz.rb does.

#10 - 03/26/2014 09:53 AM - usa (Usaku NAKAMURA)
Eric Wong wrote:

    Sorry about the portability problems.

Of course you don't have to take it seriously.
It's the reason why platform maintainers exist.
I'm worried that I don't understand the intention of the test correctly.
If there are any problems, please correct.

#11 - 04/30/2014 07:35 AM - usa (Usaku NAKAMURA)
- Backport changed from 2.0.0: REQUIRED, 2.1: REQUIRED to 2.0.0: DONE, 2.1: REQUIRED

backported r45364, r45395, r45396, r45403 and r45406 into ruby_2_0_0 at r45752.

#12 - 06/01/2014 05:18 PM - nagachika (Tomoyuki Chikanaga)
- Backport changed from 2.0.0: DONE, 2.1: REQUIRED to 2.0.0: DONE, 2.1: DONE

r45364, r45395, r45396, r45403 and r45406 were backported into ruby_2_1 branch at r46304.

Files
timezone_test.rb 409 Bytes 03/19/2014

Cantin (Cantin Xu)