

Ruby - Bug #14712

test_step does not work for implementations with full 64-bit fixnum

04/25/2018 05:35 PM - headius (Charles Nutter)

Status:	Closed	Backport: 2.3: UNKNOWN, 2.4: UNKNOWN, 2.5: UNKNOWN
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:		
Description		
In test/ruby/test_numeric.rb, in test_step, there's the following logic:		
<pre>assert_operator((0.0).step(bignum.to_f, 1.0).size, :>=, bignum) # may loose precision</pre>		
where bignum is		
<pre>bignum = RbConfig::LIMITS['FIXNUM_MAX'] + 1</pre>		
This test passes in both CRuby and JRuby when using CRuby's "smallest bignum" value of 4611686018427387904.		
This test fails in both CRuby and JRuby when using JRuby's "smallest bignum" value of 9223372036854775809.		
The failure in JRuby is the same as in CRuby:		
<pre>\$ rvm ruby-2.5 do ruby test/mri/runner.rb test/mri/ruby/test_numeric.rb -n test_step</pre>		
Run options: -n test_step		
# Running tests:		
<pre>[1/1] TestNumeric#test_step = 0.00 s 1) Failure: TestNumeric#test_step [/Users/headius/projects/jruby/test/mri/ruby/test_numeric.rb:292]: Expected 9223372036854775808 to be >= 9223372036854775809.</pre>		
Since we (JRuby) use CRuby's tests largely unmodified, I'd like this one to run successfully. However, hardcoding to the CRuby value would mean we aren't testing the same things (since that value would use fixnum logic), so I'm not sure the best way to improve this test.		

Associated revisions

Revision b7d260f1853f61d0d9e21a5227cc617dd14c66f8 - 04/26/2018 12:12 AM - nobu (Nobuyoshi Nakada)

test_numeric.rb: loose precision assertion

- test/ruby/test_numeric.rb (TestNumeric#test_step): remove a loose precision assertion, as Float cannot keep complete precision. [ruby-core:86684] [Bug #14712]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@63261 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision b7d260f1 - 04/26/2018 12:12 AM - nobu (Nobuyoshi Nakada)

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git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@63261 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

History

#1 - 04/26/2018 12:12 AM - nobu (Nobuyoshi Nakada)

- Status changed from Open to Closed

test_numeric.rb: loose precision assertion

- test/ruby/test_numeric.rb (TestNumeric#test_step): remove a loose precision assertion, as Float cannot keep complete precision. [\[ruby-core:86684\]](#) [Bug [#14712](#)]