

Ruby trunk - Bug #13674

BigDecimal comparison with Float::INFINITY is erroneous in 2.2.x and 2.3.x

06/23/2017 12:21 PM - Eregon (Benoit Daloze)

Status: Assigned	
Priority: Normal	
Assignee: mrkn (Kenta Murata)	
Target version:	
ruby -v: ruby 2.3.3p222 (2016-11-21 revision 56859) [x86_64-linux]	Backport: 2.2: REQUIRED, 2.3: REQUIRED, 2.4: DONTNEED
Description	
BigDecimal("-0.2E5556") > -Float::INFINITY	
returns wrong results in MRI 2.2.x and 2.3.x:	
<pre>for ruby in 2.0.0-p647 2.1.7 2.2.3 2.2.6 2.2.7 2.3.0 2.3.1 2.3.2 2.3.3 2.3.4 2.4.0 2.4.1 trunk; do chruby \$ruby; ruby -v -rbigdecimal -e 'p BigDecimal("-0.2E5556") > -Float::INFINITY'; done ruby 2.0.0p647 (2015-08-18) [x86_64-linux] -e:1:in `to_r': -Infinity (FloatDomainError) from -e:1:in `>' from -e:1:in `<main>' ruby 2.1.7p400 (2015-08-18 revision 51632) [x86_64-linux] -e:1:in `to_r': -Infinity (FloatDomainError) from -e:1:in `>' from -e:1:in `<main>' ruby 2.2.3p173 (2015-08-18 revision 51636) [x86_64-linux] -e:1:in `to_r': -Infinity (FloatDomainError) from -e:1:in `>' from -e:1:in `<main>' ruby 2.2.6p396 (2016-11-15 revision 56800) [x86_64-linux] false ruby 2.2.7p470 (2017-03-28 revision 58194) [x86_64-linux] false ruby 2.3.0p0 (2015-12-25 revision 53290) [x86_64-linux] -e:1:in `to_r': -Infinity (FloatDomainError) from -e:1:in `>' from -e:1:in `<main>' ruby 2.3.1p112 (2016-04-26 revision 54768) [x86_64-linux] -e:1:in `to_r': -Infinity (FloatDomainError) from -e:1:in `>' from -e:1:in `<main>' ruby 2.3.2p217 (2016-11-15 revision 56796) [x86_64-linux] false ruby 2.3.3p222 (2016-11-21 revision 56859) [x86_64-linux] false ruby 2.3.4p301 (2017-03-30 revision 58214) [x86_64-linux] false ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux] true ruby 2.4.1p111 (2017-03-22 revision 58053) [x86_64-linux] true ruby 2.5.0dev (2017-06-13 trunk 59075) [x86_64-linux] true</main></main></main></main></main></pre>	
This was discovered by ruby/specs added in JRuby in https://github.com/jruby/jruby/pull/4618 .	

History

#1 - 08/30/2017 08:50 AM - mrkn (Kenta Murata)

- Assignee set to mrkn (Kenta Murata)

- Status changed from Open to Assigned