

Ruby master - Bug #17025

`Time#ceil` does not work like `Rational#ceil` or `Float#ceil`

07/13/2020 04:28 AM - tgxworld (Guo Xiang Tan)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
ruby -v: ruby 2.7.1p83 (2020-03-31 revision a0c7c23c9c) [x86_64-linux]	Backport: 2.5: UNKNOWN, 2.6: UNKNOWN, 2.7: UNKNOWN

Description

Current behavior

```
irb(main):011:0> time = Time.utc(2016, 4, 23, 0, 0, "0.123456789".to_r)
irb(main):012:0> time.ceil(9)
=> 2016-04-23 00:00:00.12345679 UTC
irb(main):013:0> time.ceil(10)
=> 2016-04-23 00:00:00 1234567891/10000000000 UTC
irb(main):014:0> time.ceil(11)
=> 2016-04-23 00:00:00 12345678901/100000000000 UTC

irb(main):015:0> "0.123456789".to_r.ceil(9)
=> (123456789/10000000000)

irb(main):016:0> "0.123456789".to_f.ceil(9)
=> 0.123456789
```

Expected Behavior

```
irb(main):011:0> time = Time.utc(2016, 4, 23, 0, 0, "0.123456789".to_r)
irb(main):012:0> time.ceil(9)
=> 2016-04-23 00:00:00.123456789 UTC
irb(main):012:0> time.ceil(10)
=> 2016-04-23 00:00:00.123456789 UTC
irb(main):012:0> time.ceil(11)
=> 2016-04-23 00:00:00.123456789 UTC
```

Related issues:

Related to Ruby master - Feature #16470: Issue with nanoseconds in Time#inspect

Closed

Associated revisions

Revision 520a734a - 07/28/2020 07:53 PM - jeremyevans (Jeremy Evans)

Fix Time#ceil when result should be the same as the receiver

Fixes [Bug #17025]

History

#1 - 07/17/2020 09:45 PM - jeremyevans0 (Jeremy Evans)

- Related to Feature #16470: Issue with nanoseconds in Time#inspect added

#2 - 07/24/2020 10:59 PM - jeremyevans0 (Jeremy Evans)

I've added a pull request to fix this: <https://github.com/ruby/ruby/pull/3362>

#3 - 07/28/2020 07:54 PM - jeremyevans (Jeremy Evans)

- Status changed from Open to Closed

Applied in changeset [git|520a734ad9c7348f4e4858ee24640f42c88fd389](https://github.com/ruby/ruby/commit/520a734ad9c7348f4e4858ee24640f42c88fd389).

Fix Time#ceil when result should be the same as the receiver

Fixes [Bug [#17025](#)]

#4 - 08/05/2020 08:01 AM - tgxworld (Guo Xiang Tan)

Thank you for fixing this Jeremy.