

Ruby trunk - Feature #15772

Proposal: Add Time#ceil

04/16/2019 03:03 PM - osyo (manga osyo)

Status: Closed	
Priority: Normal	
Assignee:	
Target version:	
Description	
Summary	
proposal for a method that rounds up the decimal part of Time (nanosecond) to the specified digit.	
Current status	
<ul style="list-style-type: none">• Time#round and Time#floor (https://bugs.ruby-lang.org/issues/15653) are defined.• However, Time#ceil is not defined.• So, I would like to respond flexibly when I would like to control decimal precision.	
Propose Time#ceil	
Below is example code.	
<pre>require 'time' t = Time.utc(2010,3,30, 5,43,"25.0123456789".to_r) p t.iso8601(10) #=> "2010-03-30T05:43:25.0123456789Z" p t.ceil(0).iso8601(10) #=> "2010-03-30T05:43:26.0000000000Z" p t.ceil(1).iso8601(10) #=> "2010-03-30T05:43:25.1000000000Z" p t.ceil(2).iso8601(10) #=> "2010-03-30T05:43:25.0200000000Z" p t.ceil(3).iso8601(10) #=> "2010-03-30T05:43:25.0130000000Z" p t.ceil(4).iso8601(10) #=> "2010-03-30T05:43:25.0124000000Z" p t.ceil(5).iso8601(10) #=> "2010-03-30T05:43:25.0123500000Z" p t.ceil(6).iso8601(10) #=> "2010-03-30T05:43:25.0123460000Z" p t.ceil(7).iso8601(10) #=> "2010-03-30T05:43:25.0123457000Z" p t.ceil(8).iso8601(10) #=> "2010-03-30T05:43:25.0123456800Z" p t.ceil(9).iso8601(10) #=> "2010-03-30T05:43:25.0123456790Z" p t.ceil(10).iso8601(10) #=> "2010-03-30T05:43:25.0123456790Z" # default argument is 0 p t.ceil.iso8601(10) #=> "2010-03-30T05:43:26.0000000000Z" t = Time.utc(1999,12,31, 23,59,59) p (t + 0.4).ceil.iso8601(3) #=> "2000-01-01T00:00:00.000Z" p (t + 0.49).ceil.iso8601(3) #=> "2000-01-01T00:00:00.000Z" p (t + 0.5).ceil.iso8601(3) #=> "2000-01-01T00:00:00.000Z" p (t + 1.4).ceil.iso8601(3) #=> "2000-01-01T00:00:01.000Z" p (t + 1.49).ceil.iso8601(3) #=> "2000-01-01T00:00:01.000Z" p (t + 1.5).ceil.iso8601(3) #=> "2000-01-01T00:00:01.000Z" t = Time.utc(1999,12,31, 23,59,59) p (t + 0.123456789).ceil(4).iso8601(6) #=> "1999-12-31T23:59:59.123500Z"</pre>	
pull request : https://github.com/ruby/ruby/pull/2133	

Associated revisions

Revision f5415a95 - 05/23/2019 01:30 PM - osyo (manga osyo)

Add Time#ceil.

Closes: <https://github.com/ruby/ruby/pull/2133>

History

#1 - 05/22/2019 05:30 AM - matz (Yukihiro Matsumoto)

Accepted.

Matz.

#2 - 05/23/2019 02:59 AM - osyo (manga osyo)

Thank you!

#3 - 05/23/2019 01:41 PM - nobu (Nobuyoshi Nakada)

- *Status changed from Open to Closed*

Closed by [f5415a95ce1d393a3fd1d7f657ba85d85171356a](#)

I missed the tag to close the ticket.