Ruby master - Bug #15977
Unobvious result value from #next_rotate_time and #previous_period_end methods of Logger::Period module

07/02/2019 03:02 PM - davydov_anton (Anton Davydov)

Status: Closed
Priority: Normal
Assignee: sonots (Naotoshi Seo)
Target version: ruby -v: 2.5 - master

Description
I found that #next_rotate_time and #previous_period_end methods can return different time objects in some case.

When we call these methods with valid shift_age option methods returns a new Time object with the local machine's timezone. If you put invalid shift_age argument it will return existed time object with any timezone. Script for better understanding and reproducing:

```ruby
require 'time'
require 'logger'
time = Time.parse("2019-07-18 13:52:02 -0300")
result = Logger::Period.next_rotate_time(time, 'daily')
invalid_arg_result = Logger::Period.next_rotate_time(time, 'invalid')
p result.zone == invalid_arg_result.zone
p result.zone
p invalid_arg_result.zone
```

In this case, result object will have my local timezone and invalid_arg_result will have -03 timezone.

I think that the problem in these lines:
https://github.com/ruby/ruby/blob/655b3da03ca31576d2318e674d71ff52b58c887a/lib/logger.rb#L635
and
https://github.com/ruby/ruby/blob/655b3da03ca31576d2318e674d71ff52b58c887a/lib/logger.rb#L654

The question is: is it good and if not what the way we can use to fix it?

History
#1 - 07/02/2019 03:03 PM - mame (Yusuke Endoh)
- Assignee set to sonots (Naotoshi Seo)
- Status changed from Open to Assigned

#2 - 07/30/2019 05:34 AM - sonots (Naotoshi Seo)
- Description updated

#3 - 07/30/2019 05:39 AM - sonots (Naotoshi Seo)
I feel raising an ArgumentError for invalid value is the way to fix. It breaks backward behavior, but it is probably acceptable and a correct way to handle an invalid value.

#4 - 10/15/2019 01:17 AM - jeremyevans0 (Jeremy Evans)
I've submitted a pull request that raises ArgumentError for invalid shift_age values: https://github.com/ruby/logger/pull/42
For backwards compatibility and to keep the tests passing, values of 'now' and 'everytime' are considered valid and result in the behavior of rotating every time.

#5 - 10/15/2019 02:45 PM - jeremyevans0 (Jeremy Evans)
- Status changed from Assigned to Closed