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signal phase and timing
::time_change_details
::get epoch max end time
signal phase and timing
::time change details
::get_epoch_min_end_time
                                    signal phase and timing
                                    ::time change details
                                    ::convert_hour_tenth_secs2epoch_ts
 signal phase and timing
 ::time change details
  ::get epoch next time
 signal phase and timing
 ::time change details
  ::get_epoch_start_time
```