

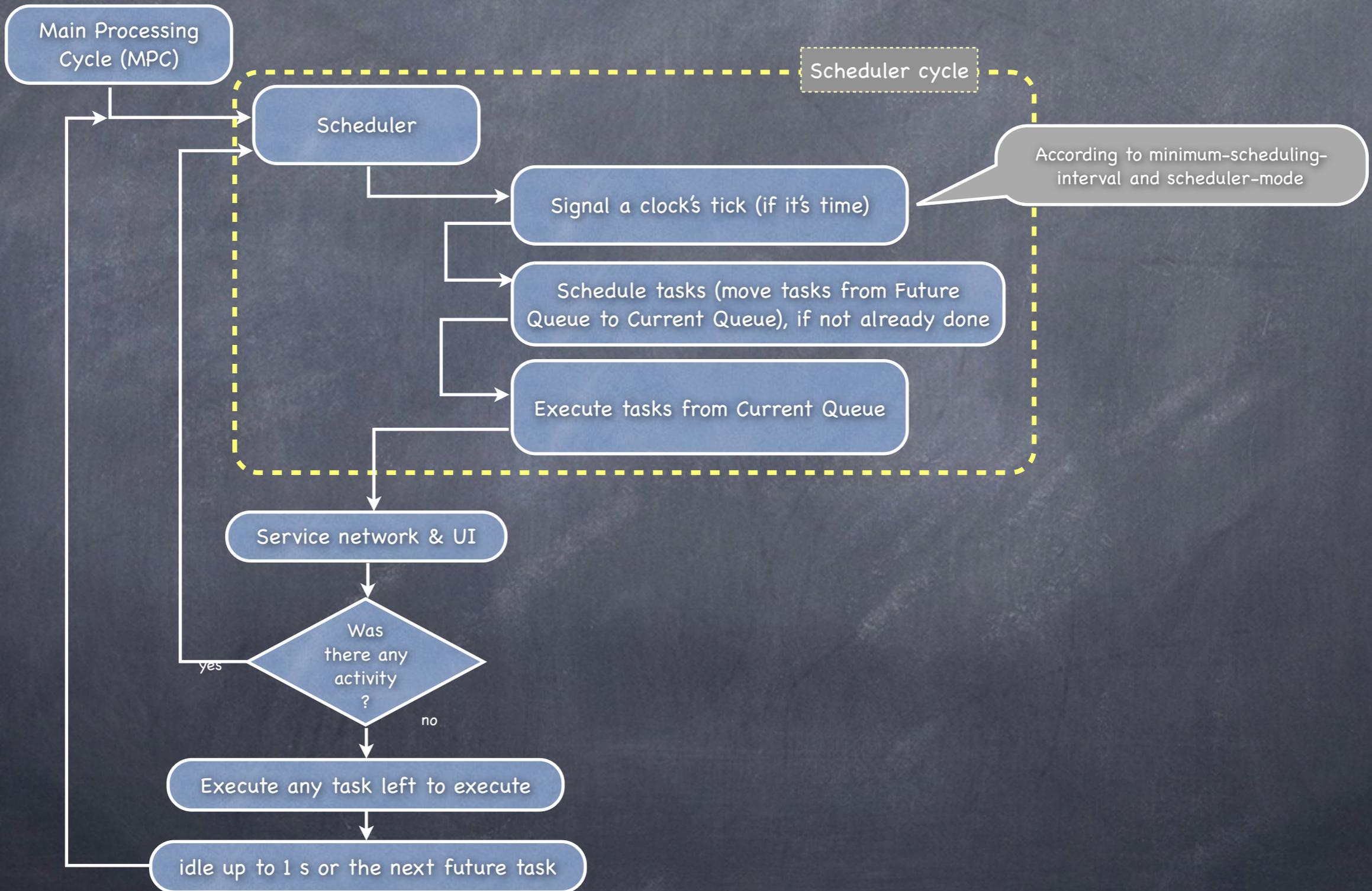
# G2 Scheduler

## Concepts

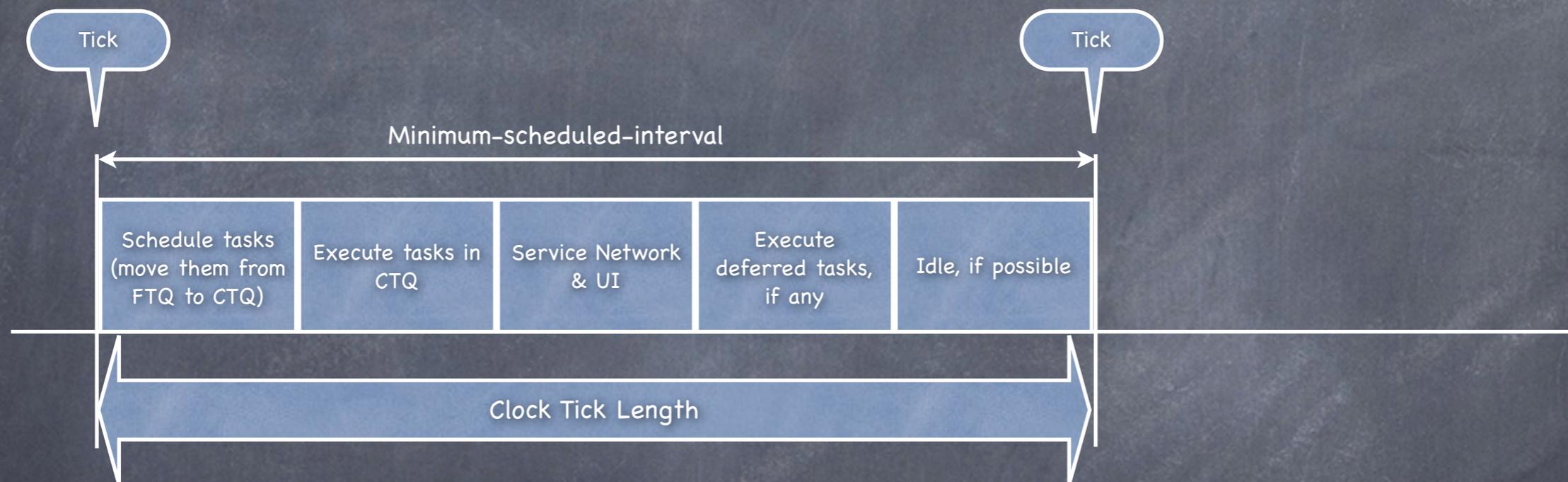
# Scheduler

- Runs as a part of the Main Processing Cycle
- Executes a number of specific tasks, but not all

# Scheduler



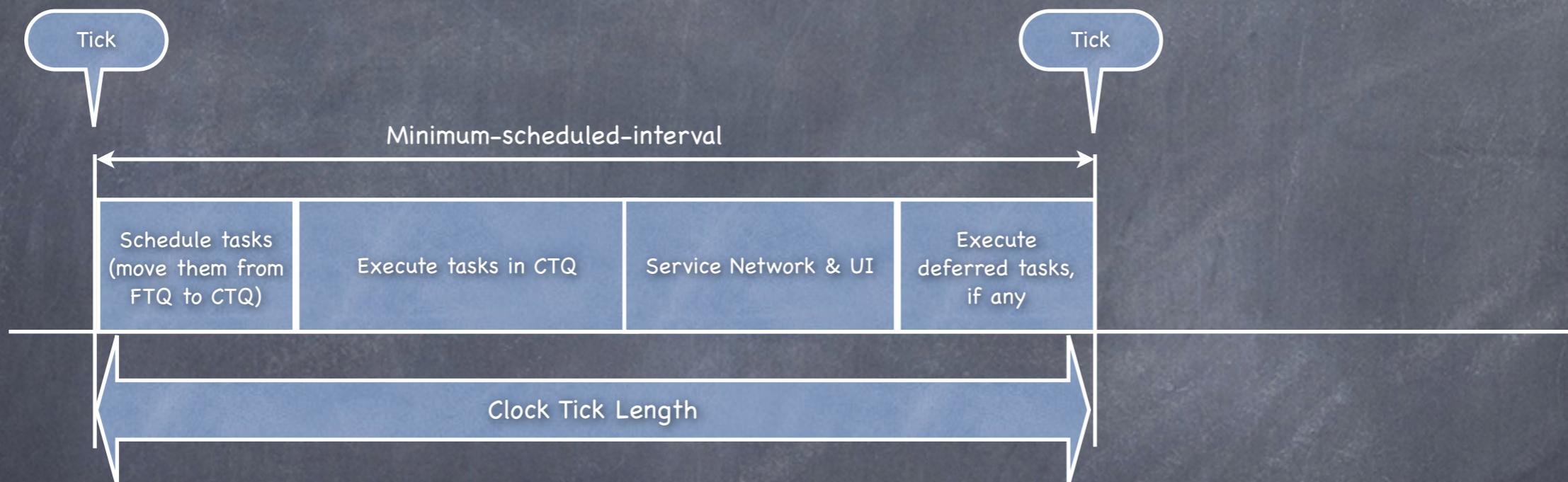
# Clock Tick Length



## In time:

**Main Processing Cycle is accomplished before the time to tick the G2 clock. There is an idle time because no outstanding or new tasks need to be executed at the end of the cycle**

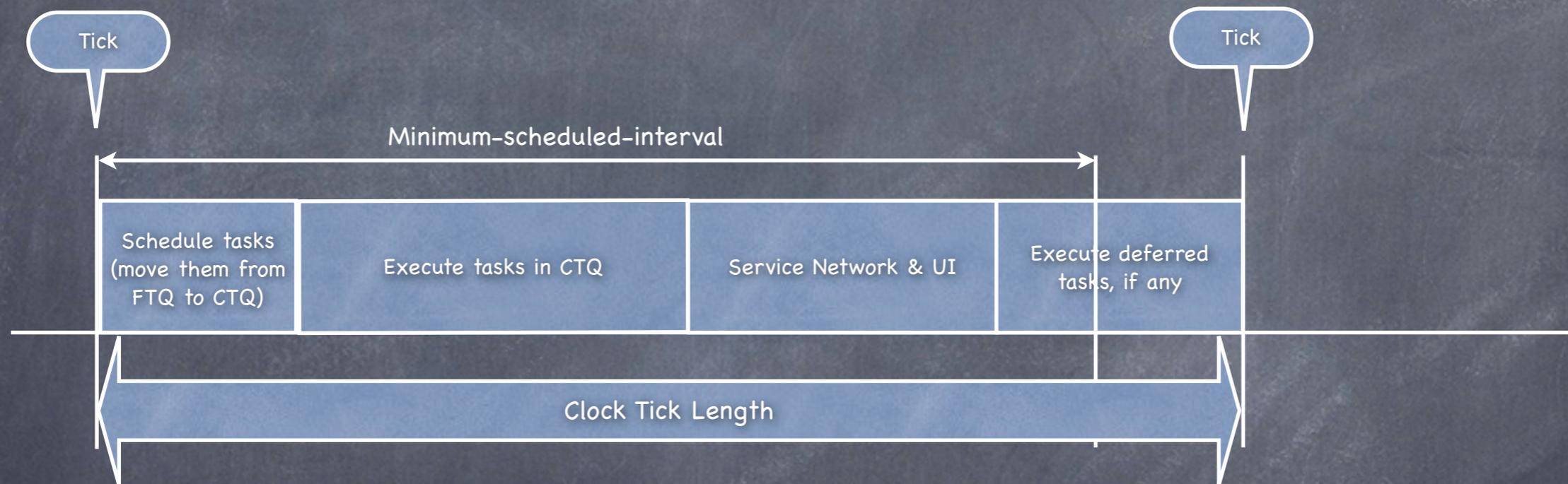
# Clock Tick Length



**Just in time:**

**Main Processing Cycle  
executes everything  
exactly in time, so there  
is no idle time.**

# Clock Tick Length



## Delayed:

Scheduled tasks (those brought from the Future Tasks Queue) took longer to execute, as well as servicing the network and the UI.

Furthermore, there were also deferred tasks that needed to be executed. All this pushed the clock tick to be signaled later than expected, and so its length was greater than the previous examples.