

EL2450 HOMEWORK 2

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Task 1: Explain what Rate Monotonic scheduling means.

Rate Monotonic scheduling means that all tasks are given a priority. At the beginning of each cycle, the task with the highest priority is run until Rate Monotonic scheduling means that all tasks are given a priority. At the beginning of each cycle, the task with the highest priority is run until completion.

Task 2: Are the three tasks schedulable?

Calculating the utilization factor U from

$$U = \sum_{i=1}^n \frac{C_i}{T_i} \quad (1)$$

which gives $U = 0.75$. The rule states that if $U < 1$ the set is schedulable.