

Tutorial 7: periodic tasks, part 2

`thomas.braipson@uliege.be`

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Ex. 1 (January 2024)

Consider the following set of periodic tasks $\tau_i = (C_i, T_i)$:

$\{\tau_1 = (1, 7), \tau_2 = (1, 5), \tau_3 = (1, \alpha)\}$, where α is a parameter.

1. Compute the smallest value of α that makes this set of tasks schedulable.
2. Verify your answer with a graphical simulation.

Ex. 2 (September 2018)

Consider the following set of periodic tasks $\tau_i = (C_i, T_i)$:

$\{\tau_1 = (1, 4), \tau_2 = (3, 13), \tau_3 = (1, 10), \tau_4 = (\alpha, 7)\}$, where α is a parameter.

Compute the largest value of α that makes this set of tasks schedulable.