

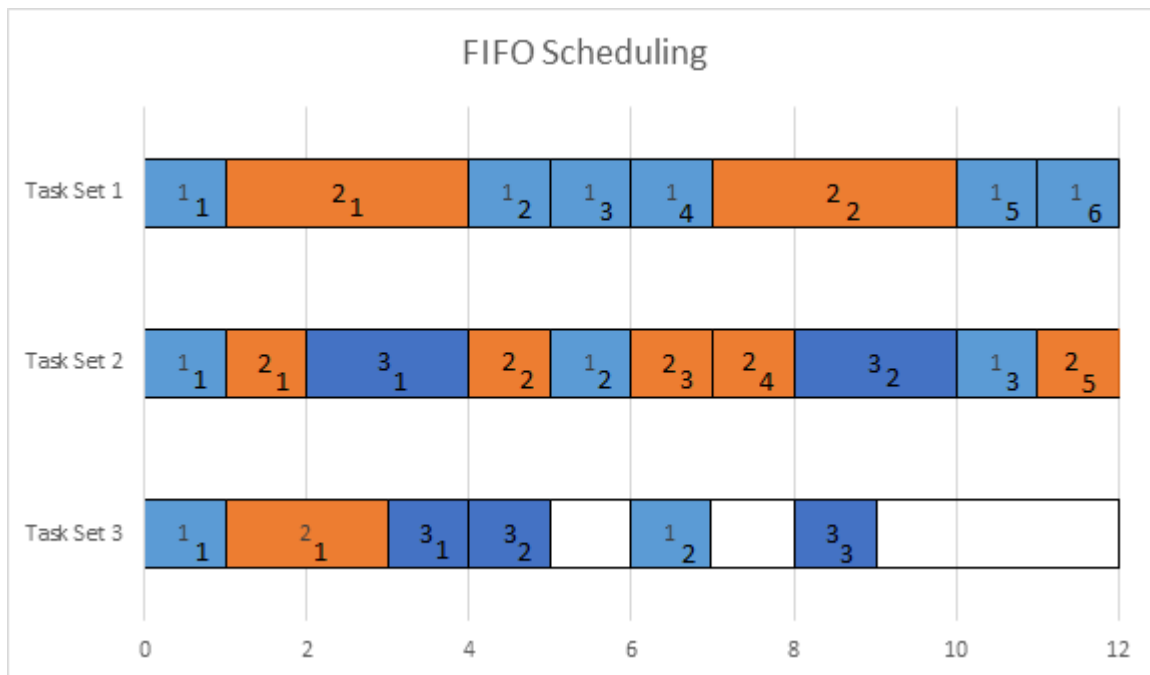
Michael Huang

COMP 550 Assignment 5c Writeup

No collaborators

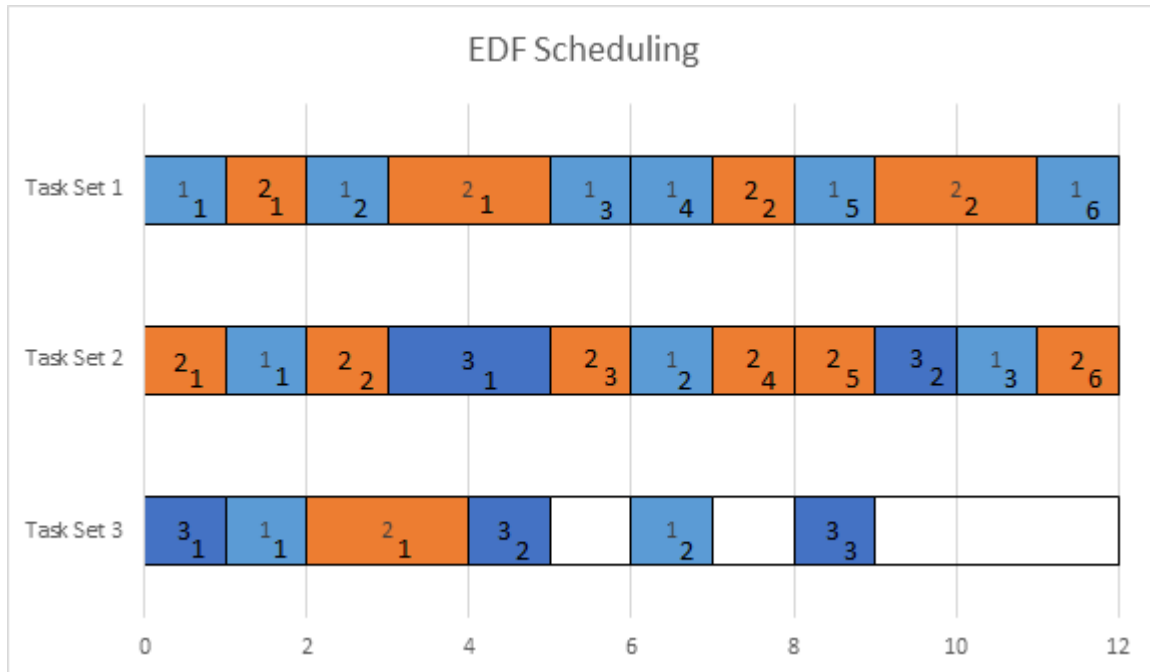
a. Do not need to handle preemptions, first task in gets scheduled to completely finish before next task is considered

b. FIFO output: Only task set 3 makes the deadlines



c. Preemptions need to be handled for EDF because a task may be released which has an earlier deadline than the current scheduled task

d. Task set 1 and task set 3 make their deadlines under EDF



e. Task set 2 is not schedulable to meet the deadlines because there are more tasks than can be completed in the deadlines for the window of $[0, 12]$. Task 1 has to be run 3 times in the 12 time units, task 2 has to be run 6 times, and task 3 has to be run twice. $(3 \cdot 1) + (6 \cdot 1) + (2 \cdot 2) = 13$ which is not possible in 12 time units.