Supplement of “Time-Reversibility for Real-Time Scheduling on Multiprocessor Systems”

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Figures 11 and 12 illustrate the ratio of schedulable task sets by RTA_{EDF} and TR_{EDF}, when we target implicit- and constrained-deadline task sets, respectively. The X-axis and Y-axis of each figure show task set utilization and the ratio of schedulable task sets, respectively. We have two observations: (i) the schedulability improvement is pronounced when task set utilization is middle, and (ii) such behavior holds for all combinations of different $m$ and task types (i.e., either implicit- or constrained-deadline), both of which are compliant with the observations from Section 6.

![Fig. 11. The ratio of schedulable implicit-deadline task sets by TR_{EDF} and RTA_{EDF}](image_url)
Fig. 12. The ratio of schedulable constrained-deadline task sets by TR_{EDF} and RTA_{EDF}