Improved Priority Exchange Server

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***Abstract*—This paper is focused on the scheduling algorithm of the improved priority exchange server. In complex systems, it is important to meet deadlines, as there are a lot of processes running at the same time, these processes need to be given priority in other to avoid system overloads, which could lead to catastrophic occurrences in the system. In other to avoid these overloads, we need to schedule the system, giving priorities to tasks. In other to achieve an efficient scheduling system, we have extensively analyzed the use of the improved priority exchange server algorithm, which is a modification of the DPE server (Dynamic Priority Exchange Server, explained further in this paper), this is done by using the EDL scheduler (Earliest Deadline Late, explained further in this paper) idle times. This led to the increase in an efficient replenishment policy of this server, and also changed the dynamics of the scheduler which in turn allows regular running of the system at its highest priority.**

***Index Terms*—Improved priority, server, efficiency**

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