

Title:

Quantum Varying Deficit Round Robin Scheduling, Analysis and Comparison

MSCPE Scholarly Paper

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Abstract

In this paper we discuss the performance of different packet scheduling algorithms. We mainly focus on the enhanced Deficit Round Robin Algorithm (Quantum_DRR) proposed by Tong and Zhao in their paper “Quantum Varying Deficit Round Robin Scheduling Over Priority Queues” and compare it with the Weighted Fair Queuing Algorithm (WFQ) and the regular Deficit Round Robin Algorithm (DRR). We illustrate and explain the concepts behind the Quantum Varying DRR as well as recall the concepts behind other well know scheduling algorithms. Analytical and simulation results will be used to compare the characteristics of the discussed algorithms and explain the benefits of using one over the other.