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Implementing a Lottery Scheduling Queuing System Strategy

Abstract

This research provides a description of the lottery queue scheduling algorithm, its characteristics, benefits, advantages, and method of operation, which we will discuss. Lottery scheduling is a randomized resource allocation mechanism for time-shared resources. Each allocation is determined by holding a lottery that randomly selects a winning ticket from The set of all tickets competing for a resource. The resource is granted to the client that holds The winning ticket. This simple operation effectively allocates resources to competing clients In proportion to the number of tickets that they hold. The aim of this research is to implement and simulate a lottery queue scheduling process to enhance efficiency and fairness.