

Modeling, Simulating, and Measuring the Performance of Queues

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Prerequisites

This vignette continues from concepts covered in the vignette: “Introduction to Queueing Theory and Queueing Models”.

Simulating a M/M/1 queue

Simulate an example of a simple M/M/1 queueing process

Introduction to performance measures for queues

Perform an analysis of the simulated M/M/1 queueing process including a steady state analysis of the system (stationary distribution) and performance measures (loss probability, average waiting time, idle time).

Multiple servers: the M/M/c queue