

Simulation and performance measurement of queues on NS2.

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Abstract: This topic focuses on simulating and evaluating the performance of queue systems in telecommunications networks using the NS2 simulation model. The context of the topic arises from the practical need to optimize data transmission performance in queue applications such as video on demand and online games. The objective is to build and deploy this model to better understand the queue request processing process and measure key indicators such as delay, reliability, and resource utilization efficiency. The research methodology includes both experimentation and theoretical analysis. The expected results will contribute significantly to improving service quality in telecommunications networks.

Keywords: NS2 simulation, queue performance, data transmission system