

Research on TCP congestion control techniques

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Abstract: This topic aims to study and analyze the necessity of congestion control in the TCP communication protocol. The main objective is to build an effective control system to optimize data transmission, ensuring transmission speed and quality of service. The method includes synthesizing TCP theory, designing congestion control algorithms, and implementing experiments on a simulated network platform. Expected results will provide useful solutions for improving communication system performance.

Keywords: congestion control, TCP protocol, communication technology, control algorithm, network system