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Throughput Modeling of TCP Parallelization

Chan, Yi-Cheng; Liu, Fang-Chun; Yen, Yuan-Tzu

Abstract

Modeling TCP performance is an important issue over the past decade. In this paper, we address how to predict parallel TCP throughput as a function of feasible network parameters without packet loss rate. The proposed model consider all the TCP's behavior in slow-start, congestion avoidance, and fast retransmit and recovery phase. The NS2 simulation results confirm the effectiveness of the proposed model.

Key words : Parallel TCP;Throughput modeling;Internet;Transport layer protocol