

MODELING THE FRAME-RELAY SWITCH NETWORK

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Abstract

In telecommunication networks, a management system is used to configure the switches network that a certain level of *QoS* (*Quality of Service*) to be provided. The term *Quality of Service* offered to user can be described in terms of quality parameters. An analytical model of such of network will help in prediction of some parameters as the average delay of the frames. This paper will study the frame queueing delays. The message delay is defined as the time elapsing between the arrival of the first packet of the frame until after the transmission of the last packet that complete the message. In case of analytical complexities a parallel simulation technique is suggested for obtaining fast results.

Keywords: Frame-relay Network, Parallel Simulation, Laplace-Stieltjes Transform.