

Analutical Modeling of a Large Local Area Network – Part I: Internet raffic Characterization

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Abstract

The goal of both IP network operators and the end users is to get the highest performance from the system for a given cost. This makes Performance a key criterion in the design, procurement, and use of computer and communication systems. In order to address problems associated with performance degradation of operational communications systems, over the last decade, traffic engineering techniques have emerged in an attempt to optimize communication systems' performance and ensure more efficient use of their resources. One of these techniques is analytical modeling.

Key Word Traffic characterization, Traffic Engineering, Long range dependence