Simulation of Measurement Based Admission Control using NS2

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Abstract

Admission control is an important component for end-to-end Quality of Service (QoS) delivery in IP networks using resource reservation and determines how bandwidth and latency are allocated to streams with various requirements. Admission control schemes therefore need to be implemented between network edges and core to control the traffic entering the network. This paper compares the performance of four measurement based admission control
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Algorithms for controlled-load service. The measurement based algorithms are based on measured bandwidth, acceptance region, and equivalent bandwidth [1]. Simulation was done on several network scenarios for video transmission to evaluate the link utilization and adherence to service commitment achieved by these four algorithms and HB gave better result when IP network support smaller packet and ACTO and ACTP gave the best bandwidth when packet size is more than 1250 bytes.

References


Available:
- ns-2 Tutorial Running Simulations by: Matthias Transier

Index Terms

Computer Science Engineering and Technology

Keywords

MBAC Quality of Service (QoS) Resource Reservation Protocol (RSVP)