عنوان مقاله:

Modeling and Performance Evaluation of Mean Waiting Timefor Multiple Web Access in the Narrowband Network

نویسنده:

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خلاصه مقاله:

This paper presents analytical models to find the mean waiting time for multiple access web service by using HTTP over SCTP. Mean waiting time is important measures of Quality of Service (QoS) in simultaneous users accessing a web server. The proposed mean waiting time model assumes the multiple packet losses and a narrowband network, which does not allow fastretransmission because of the small size window. Our practical experiments show that the differences between the results from the model and those from the experiments are very small below about 4% on average. We also find that the mean waiting timefor HTTP over SCTP is less than that for HTTP over TCP. The model can be used for planning and dimensioning of the network bandwidth to satisfy the QoS constraint of end-users.

کلمات کلیدی:

Mean Waiting Time, Multiple Web Access, HTTP over SCTP

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