Abstract

Analysis of Idle and busy period of any communication system gives the overall information about system behavior when system is empty and data present in the system. In this paper we use a queueing theory approach to model the system with two class data traffic. we develop and analyze the idle and busy period of two class data traffic through queueing system using Markov chain. We also develop the markov chain for calculating the number of customers served during busy period. The length of busy period is also calculated through the construction of Markov chain. The cumulative distribution function of the busy period for each state is also calculated for the various arrival rates.

References

Idle and Busy Period Analysis of Two Class Data Traffic through Queueing Technique


Index Terms

Computer Science

Communication

Keywords

Idle period  busy period  two class data traffic  queueing system  Markov chain