

Abstract

IPTV (Internet Protocol Television) is a system where service digital television delivered using Internet Protocol over a network including infrastructure, including high-speed connection. Users IPTV services and other IP-based streaming more and more This of course raises problems in setting it up and cause full network traffic so that the decline in network performance. For full address on the network traffic necessary for regulating the implement traffic management using queue discipline. Application queue discipline is done by using the algorithm Hierarchical Token Bucket (HTB), which are available on the Linux operating system. This queue discipline included in the method used to divide clasfull and bandwidth allocation the IPTV service and FTP on LAN network.

Analyzed in this final is how it impacts HTB queue discipline algorithm when applied to IPTV services in a network, seen from the measured QoS parameters namely delay, jitter, packet Loss and throughput fairness index.

Analysis of all the tested scenarios show that HTB implementation can improve the performance of IPTV. From the test results HTB obtained good results in the delay and jitter which is a component important IPTV services.

Keyword: Manajemen Bandwidth, Hierarchical Token Bucket, IPTV