Abstract

Video Streaming is a technology for transmitting video and voice over the network. When the access network used by many clients (solid) and for different services, bandwidth allocation becomes important for video streaming service because streaming technology tend to depend on the bandwidth.

One of the techniques used to facilitate the process of QoS bandwidth management on a network is the Hierarchical Fair Service Curve (HFSC), HFSC will allow users to allocate bandwidth or data traffic from data traffic that passes through in order to provide quality assurance for existing services network. In this final project, HFSC will be implemented on a PC Router with Linux OS. The goal is to find out how HFSC influence the application of streaming video service HFSC.

Analysis of all the tested scenarios show that the implementation of HFSC can improve video performance HFSC, Because Hierarchical Fair Service Curve (HFSC) **can guarantee the bandwidth of the video services so as to achieve the ideal conditions of a video with the consequences sacrificing other services within a specified time interval.**

Key Word: *Hierarchical Fair Service Curve, Quality of Service, linux OS, Video Streaming*