

Abstract

Video conference is one of the most popular multimedia application which is use in a variety of purposes. This real time application is easy to use and has a good quality, that's why many people like to use this kind of application. For fulfill the needs of open source system user, nowadays provide many video conferencing tools for open source. Video conference is a real time application that required accuracy of acceptance of data packets in end user for every transmission occur. Unfortunately, in implementation of video conferencing system delay from network and application are often happened.

At the application side, minimalization the effect of jitter can be doing by modification the jitter buffer. Adaptive jitter buffer algorithms are designed to modified the buffer size adaptively depends on network delay. In this research, the writer implement the adaptive jitter buffer algorithms for video conference on local area network IPv6. By implement adaptive jitter buffer for video conference on local area network, the effect of jitter can be minimized, so the quality of video conferencing is better.

Key words : real time application, LAN IPv6, video conference, jitter, adaptive jitter buffer algorithms.