ABSTRACT

Technological improvement of network and multimedia technology make multimedia as a feature that needed in internet. Product of multimedia networking such as video conference will be popular and important in so many utility. Requirement of communications are being increase so that it need guarantee of communications by good QoS. One of the ways to make it is by using Resource Reservation Protocol (RSVP). Video conference, that such of real-time application, required a guarantee of bandwidth when the transmission done, so that be needed some mechanism of real-time application for resource reservation along the path.

This research analyze of video conference application performance using RSVP protocol compared to video conference without RSVP protocol. The research is to find out performance improvement given by RSVP protocol to video conference application. Performance improvement that resulted by using RSVP is degrades the number of delay, jitter, and packet loss.

Based on the simulation, the number of delay, using RSVP degrade about 8,62% from condition without using RSVP. In other hand, jitter value by using RSVP is 1,62% lower than without RSVP. After obtained the parameters value then it can be obtained the MOS value. As a whole, performance improvement of RSVP is better significantly than without using RSVP on video conference application.