

Abstract

Increasing of wireless networks in recent time indicate that wireless technology will perform important role within Internet in the future. TCP's technology that used to build Internet has important network element such congestion control. Congestion control influences performance of TCP flow not only in wired technology but also in wireless too as infrastructure of Internet. TCP that firstly build for wired networks which low error rates nowadays has implemented for wireless networks which higher error rates where this condition can perform higher packet losses.

In this final duty will made analysis several algorithm for handling congestion control that is Fast TCP, Hamilton TCP and Highspeed TCP and those algorithm would performed in wireless network. Fast TCP use queueing delay as measure of congestion occurred. Whereas Hamilton TCP and Highspeed TCP uses loss probability to indicate congestion withi networks then they will reduce it's window. And from those three of TCP algorithm would analyzed and compared performance uses such parameter as throughput, delay, jitter and packet loss with simulation based on ns-2.

Keywords: *Fast TCP, Hamilton TCP, Highspeed TCP, congestion control, wireless*