Abstract

Congestion is one of problem in the internet networks. Longer delay transmission and higher packet drop rate are the effects of congestion. Because of that is required a congestion control mechanism to reduce the impact of congestion. This final project will use congestion control algorithm Random Early Detection (RED) and Adaptive RED (ARED) following the addition of Explicit Congestion Notification Protocol (ECN

The purpose of using ECN protocol is to determine the network performance that occurs because of the effect / impact resulting from congestion, and the difference if without using ECN protocol

The result of this Final Task is the Adaptive-RED ECN algorithm that used in wireless network is capable to generating the value of packet loss lower and the value of throughput higher, also more robust than scheme without using ECN because it gives better result in network performance.

***Key Words** : TCP, Congestion Control, AQM, RED, ARED, ECN.*