ABSTRACT

Internet is the infrastructure that can not be disintegrated from the telecommunication technology. Today, Internet is being used for some application which need different requirement one another. One of the requirements is how to generate the traffic with different characteristic that especially can be distinguished respectively Data Application, Video Application and Voice Application. The problem is all about the QoS (Quality of Service) in the Internet Network which is basically IP Network. The logically consequent by this problem is how to find the way to get the appropriate Network QoS it self for good quality of applications through the Network. Nowadays, there are many technologies developed to support the appropriate QoS requirement. Scheduling Scheme and Queuing System in the Router is one of the many aspects that must be concerned and become the aim of this final project especially about the voice traffic.

Two kind of scheduling scheme which was simulated in this final project respectively Weighted Round Robin (WRR) and Priority Queuing (PQ) through the IP Network in carrying the voice traffic. The QoS parameters were measured to compare the two kind of scheduling scheme respectively The Delay, Jitter and Loss Packet.

The result of this research is Priority Queuing (PQ) relatively give better performance than Weighted Round Robin (WRR) on voice traffic case.

KeyWord : WRR, PQ, QoS, Internet, IP, Router, Delay, Jitter, Loss.

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