PACKET SCHEDULING DISCIPLINES – A SURVEY

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Abstract

Nowadays Internet traffic is occupied by the real-time multimedia applications such as Video on demand, Video telephony, Video streaming and e-learning that demands QoS guarantees. Various QoS mechanisms have been developed over the years such as traffic shaping, admission control, resource reservation, QoS routing, Classification and Packet Scheduling. An important issue in many QoS architectures proposed is the Packet Scheduling algorithm used by routers in the network because Scheduling algorithm distributes the available network resources such as bandwidth and buffer space effectively to achieve QoS. Research on design and implementation of optimized Scheduling algorithms have been carried out by many researchers. In this paper, a survey on various packet scheduling techniques has been explored on the basis of complexity bounds and trade – offs.