

An Approach for Proportional Packet Scheduling Among MAC Flows in Wireless Networks

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Abstract: *An Approach for Proportional Packet Scheduling Among MAC Flows is presented in this paper. a new medium access control or media access control (MAC) layer scheduling technique called proportional packet scheduling (PPS) that achieves weighted bandwidth allocation among single-hop MAC-layer flows in a multihop wireless network. This also explains the contention among MAC Flows in wireless networks. The enhancement in PPS by Request-for-RTS Packets and its role is described and its performance is estimated. Weighted max-min fairness among MAC flows is achieved without the need to exchange knowledge of flow status and network topology; Weighted bandwidth allocation is realized in a very fine granularity; Dynamic weight change is well supported.*