

information of each flow. The status of flows are decided by measuring the average service rate of TCP flow to satisfy the requirements of AF service class for TCP flow in the Diffserv network. From the simulation result, TSW3CDM_FS shows improved results with an average of 10% in various conditions when compared to the existing TSW3CM method. It was confirmed that such improvements occurred due to the fact that the effects of RTT were supplemented in proportion to target transmission rate of each flow in situations with flows with various target transmission rates and RTT of TCP traffic in the AF service of the Diffserv network.

Furthermore, the differential service QoS in the Diffserv network is not only influenced by the marking policy but also highly influenced by the queue management policy and the scheduling policy. Therefore, the study on packet marking policy must be conducted alongside studies on the queue and scheduling policy in future studies.

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