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Abstract
Due to the recent advances in Internet technologies and transmission applications, the issue of Quality of Service (QoS) become more crucial to Internet performance. Quality of Service guarantees mechanism play a major role on internet, However, and no test guarantees simulation model is found until now. Providing different services for different clients according to their needs is in prevailing these days. The variety of multimedia applications, Regarding MPLS, VoIP, VOD, Data transmit, becomes more choices of QoS.
In this thesis, we try to build up a test platform according with IEEE 802.1P standards and to present the simulation procedure for monitoring the end-to-end architecture of virtual LAN network (VLAN).
Based on our simulation results from practical accessing (receives and transmit packet) according to the grade of priority over the access network, we propose a simple and feasible architecture guarantee mechanism that can be easily applied to current access network such as ISP, multimedia on demand (MOD) and network telephone (VoIP) etc.
Finally, any access network performance can be enhanced and maintained through using this proposed guarantee mechanism approach. Hence, it still can increase the adaptability for customers and meet more diversified requirement on Fiber To The Community (FTTC) or Fibber to The Home (FTTH).
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