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Abstract
Since the digital economic society has come, we need more broadband network services. The cost of the leased lines is not affordable for many small enterprises although that is the best choice. In this thesis, we design a load balance system for ADSL network flows based on Linux Netfilter infrastructure. It can reduce the situation that most of the flows are over congested in some ADSL lines and lower down the access fees for connecting to the Internet. This system uses various operation rules to count the weights dynamically, so it can be used in many ADSL lines with different rates. Also the system is with fail-over capability by monitoring each ADSL line. We also propose the solutions for ADSL connections with bridge mode or router mode. An experiment environment is setup for measuring performance and testing different ADSL rates. The system is actually operated in Southern Taiwan University of Technology. We find out that it can really make the flow load-balanced.
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