Varodom Limpabandhu 2012: Efficiency Comparison of TCP Protocol and SCTP Protocol on Instant Messaging System. Master of Science (Computer Science), Major Field: Computer Science, Department of Computer Science. Thesis Advisor: Assistant Professor Sukumal Kitisin, Ph.D. 89 pages.

The objective of this research to implement an instant messaging program with SCTP protocol to compare the efficiency of TCP protocol and SCTP protocol in different operating conditions and environments. As a prototype to demonstrate deploying SCTP protocol for instant messaging and other systems effectively.

Performance of test results show that SCTP protocol can improve the performance of instant messaging program as well. The results show that SCTP can provides better performance, but there are some restrictions of SCTP protocol when working with very small data (1 Kbytes) that protocol TCP can provide better performance. But all totally it can work effectively in condition that enable main feature of SCTP protocol including large data, packet loss environment and compress data.

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