Implementation of a New TCP Protocol and compare it with other fellow protocols.

**Abstract:**

The Transmission Control Protocol is one of the core protocols of the Internet protocol suite. Its primary role is to provide end-to-end communication service between two or more applications. TCP provides reliability, ordered delivery of a stream of data, requests retransmission of lost data, rearrangement of out-of-order data, and even helps minimizing the network congestion problems. TCP is the protocol used by major internet applications such as email, remote administration and file transfer.

In spite of TCP offering tremendous capabilities, it does have its own limitations. Those limitations have more to do with the intended scope of the protocol suite than weaknesses. This project aims to identify and implement a new method that improves the TCP protocol performance and analyzes the results by comparing with the other well known protocols such as TCP Renu, TCP Westwood etc.

**Key words:**

TCP, Network Simulator, Congestion.

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