

Performance evaluation of flow control in TCP and UDP protocols

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Abstract: In this project, we will evaluate the performance of two popular transport protocols, TCP and UDP, from the perspective of flow control. The context for choosing this topic stems from the significant differences in traffic management methods between these two protocols in real-world applications. The main objective of the project is to identify the advantages, disadvantages, and limitations of both protocols, while also assessing performance when applying flow control methods. The research methodology will combine theory with experimentation to provide an overview of the applicability of TCP and UDP. The expected results of this project will not only help to better understand the operational structure of transport protocols but also contribute to improving network performance in modern systems.

Keywords: TCP, UDP, Flow control, Performance evaluation, Transport protocol