INTERCONNECTION NETWORKS-
IMPROVING CONGESTION CONTROL

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Suraj Udupa Uppinakudru

School of Computer Science
Abstract
The objective of this project is to implement a Congestion Control Algorithm on the Interconnection Network Simulation and Evaluation Environment (INSEE) simulator and to study and analyze the previously developed algorithms. Interconnection networks are used in High Performance Computing where thousands of nodes are interlinked. Occurrence of congestion in the interconnection network is a serious problem as this degrades the entire network performance.

The results are analyzed to understand the various effects of congestion on packet latency and network throughput when variable load is applied on to the network. The performance evaluation for this deployed Congestion Control Algorithm is analyzed. This forms the basis for proving the effectiveness and efficiency of this algorithm which is designed to prevent congestion in interconnection network and improve its performance significantly.