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Lab9 - Report

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OVERVIEW

In this assignment we emulate the TCP congestion control algorithm and observe the effect of various parameters on the Congestion Window Size.

OBSERVATIONS

As i increases the initial value of Congestion Window increases. This is because Initial CW is i multiplied by MSS.

As m increases the slope of initial exponential increase increases. This is because in the given formula it is basically a linear increase.

As n increases the slope of linear growth increases. This is because the given formula is of the form a+n/a

As f increases, the value to which CW falls after timeout is larger. This again follows from given formula.

As p increases the probability of timeout increases leading to many steep falls in the graph.

When the p is sufficiently low, no timeout occurs.

Max packets has been set to 5000 for the purpose of this simulation.

The obtained graphs are attached below:

GRAPHS































































