

Lab Assignment – 5

Report

Objective : The objective of this project is to emulate the TCP Congestion Control Algorithm.

Analysis of TCP congestion control algorithm using rand() function in Cpp to decide whether the acknowledgement is received.

MSS = 1kB = 1 Segment

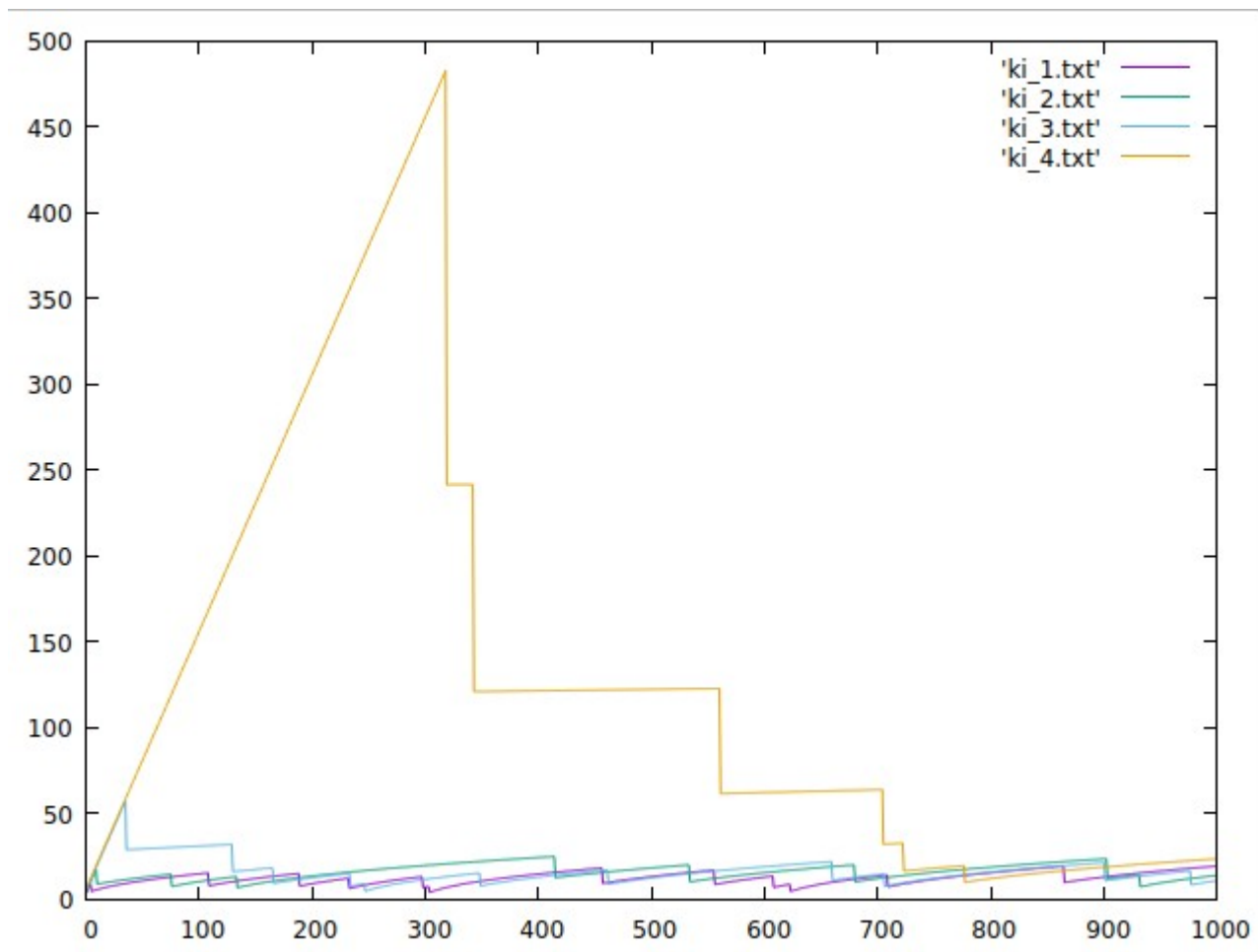
RWS = 1MB = 1000 Segments

ssthresh = 15 (Initial value)

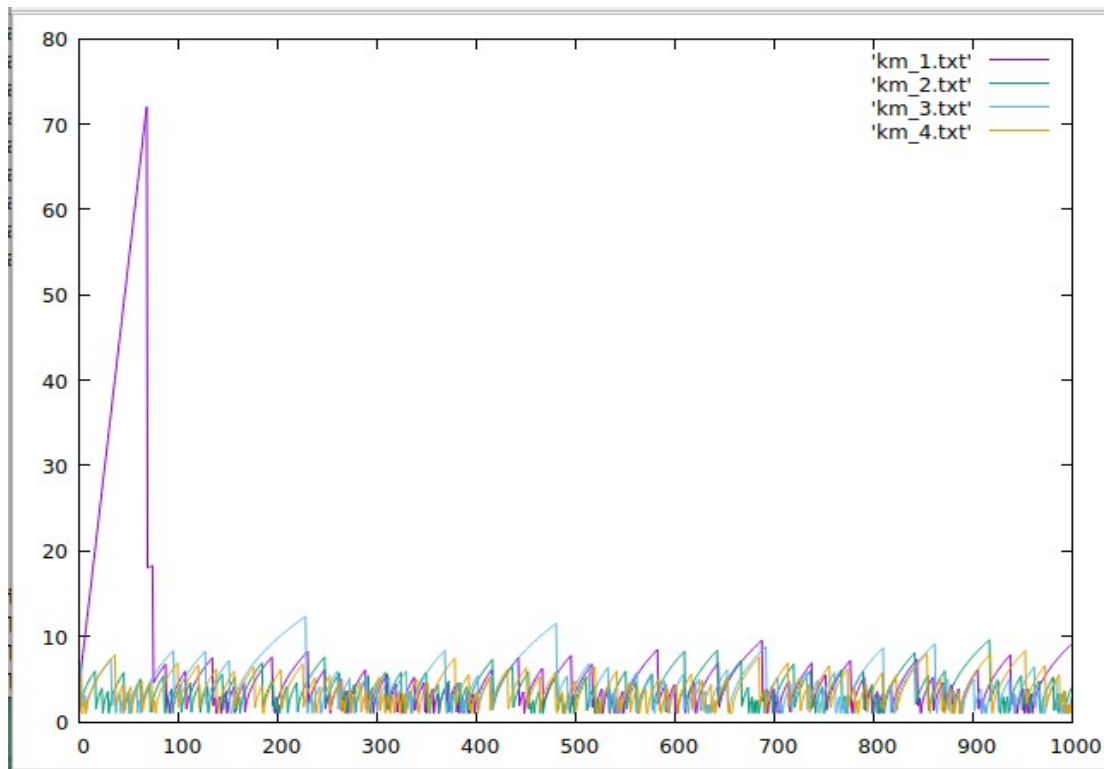
The below specified constraints are considered for this algorithm:

$K_i \in \{1, 4\}$; $K_m \in \{1, 1.5\}$; $K_n \in \{0.5, 1\}$; $K_f \in \{0.1, 0.3\}$; $P_s \in \{0.01, 0.0001\}$

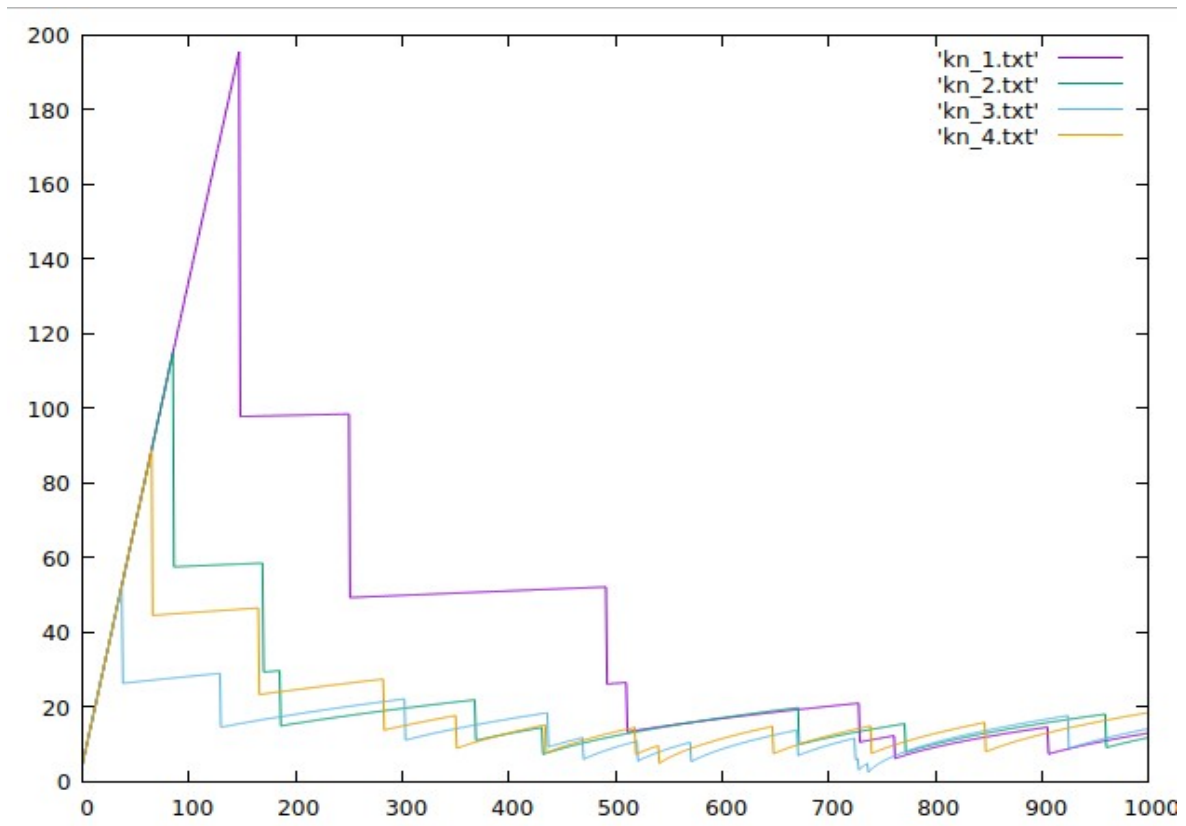
Ki graph :



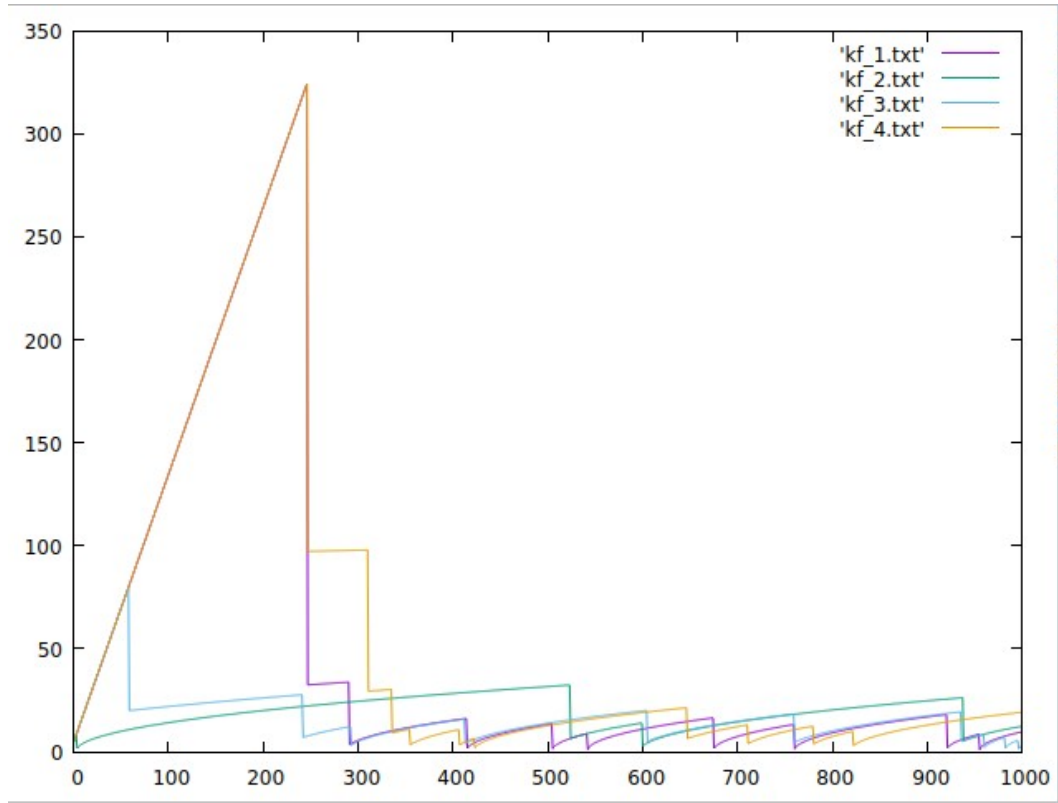
Km graph :



Kn graph :



Kf graph :



Ps graph :

