

Computer Networks CSD304

LAB 3 REPORT

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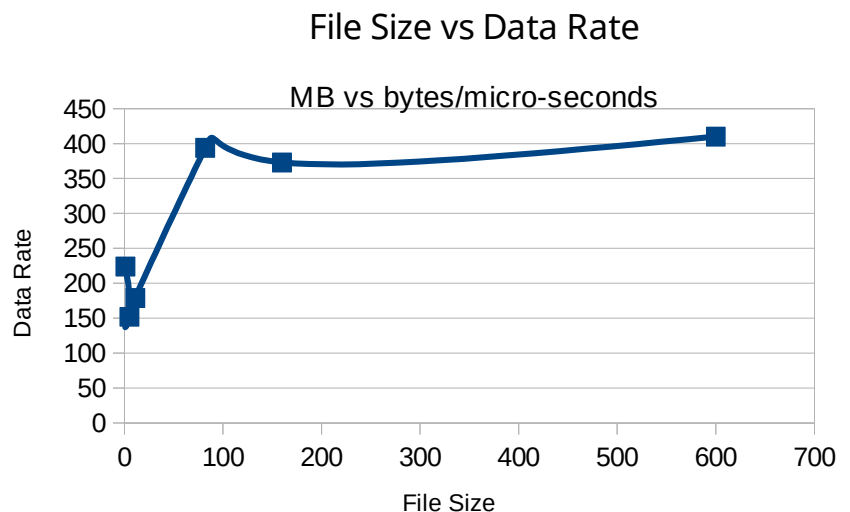
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In this lab after implementing acknowledgements (**Stop and Wait Mechanism**) for packets over UDP. We observe that there is no difference between the file size sent by the server, and the file received by the client, because of the acknowledgements sent by the client for each packet received. If a packet is lost in transit, the server re-transmits the packet and if the acknowledgement is lost, then too the server re-transmits but with the help of sequence number it can differentiate between a new packet and a duplicate packet.

A few observations regarding the **File Size Sent** and the **Data Rate**:

File Size (MB)	Data Rate (bytes/ micro-seconds)
1	224
5	152
11	179
82	394
160	373
600	410



Here we can see as the file size grows the data rate increases initially, but as it reaches up a certain point, it starts to stabilize (almost). There are a lot of factors affecting these values such as quality of link, distance of link, same device or different devices etc.