

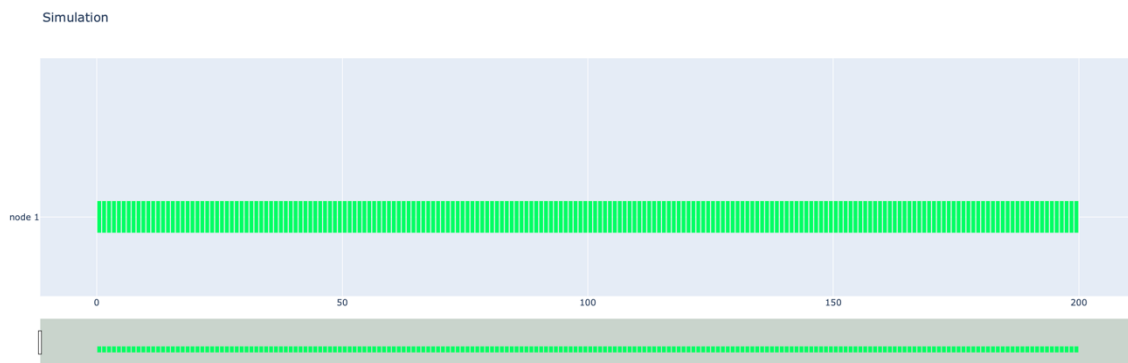
This is not related to task 2.1? - 20

2.i: A collision can happen, if several nodes try to send data in the same time slot. At the end of time slot, acknowledgement that is missing indicates a collision. After the collision, a node must have to wait for an interval.

2.ii: We Implemented a simulation for the communication of multiple nodes, which adheres to the protocol as defined in the question. It outputs a detailed log about what happens in each time slot, including information about retransmissions, queue length, etc.

Testing our simulation with the following parameters:

1. for; $t = 200; N = 3; p_1 = 1; p_2 = p_3 = 0$
2. for; $t = 200; N = 3; p_1 = p_2 = p_3 = 0.5$
3. for; $t = 200; N = 3; p_1 = p_2 = p_3 = 0.3$
4. for; $t = 200; N = 3; p_1 = p_2 = p_3 = 0.1$



where
is the
complete
200 slots?

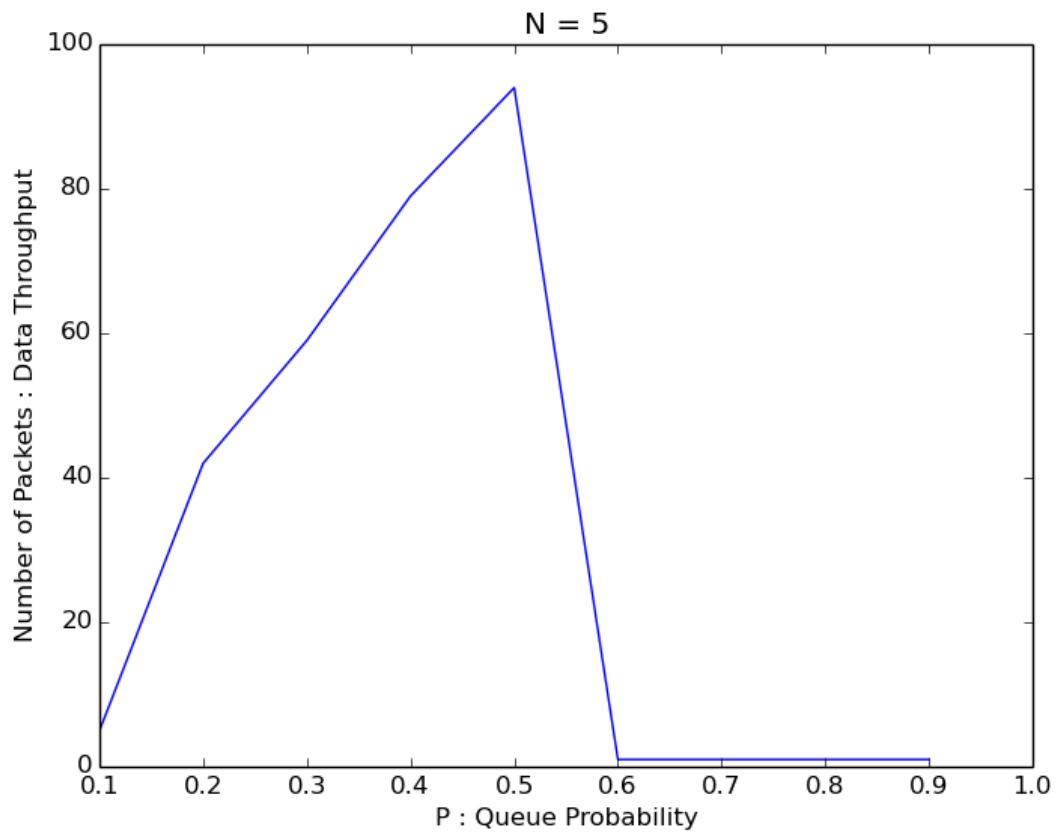
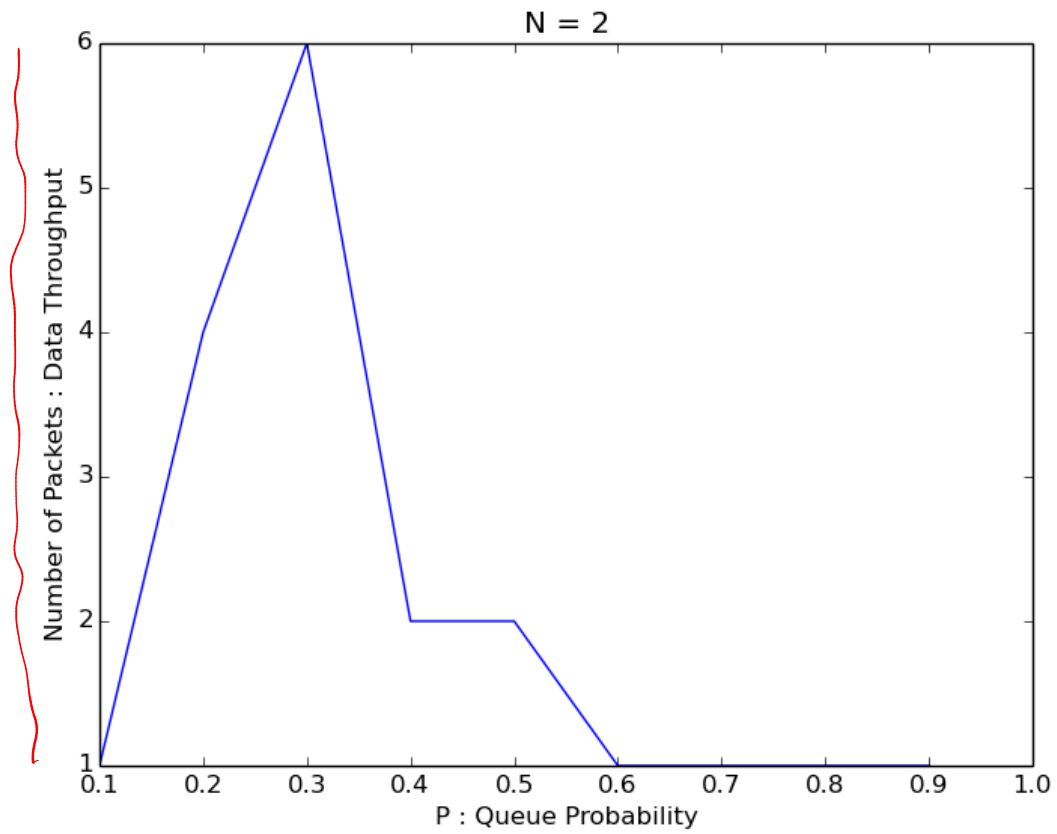


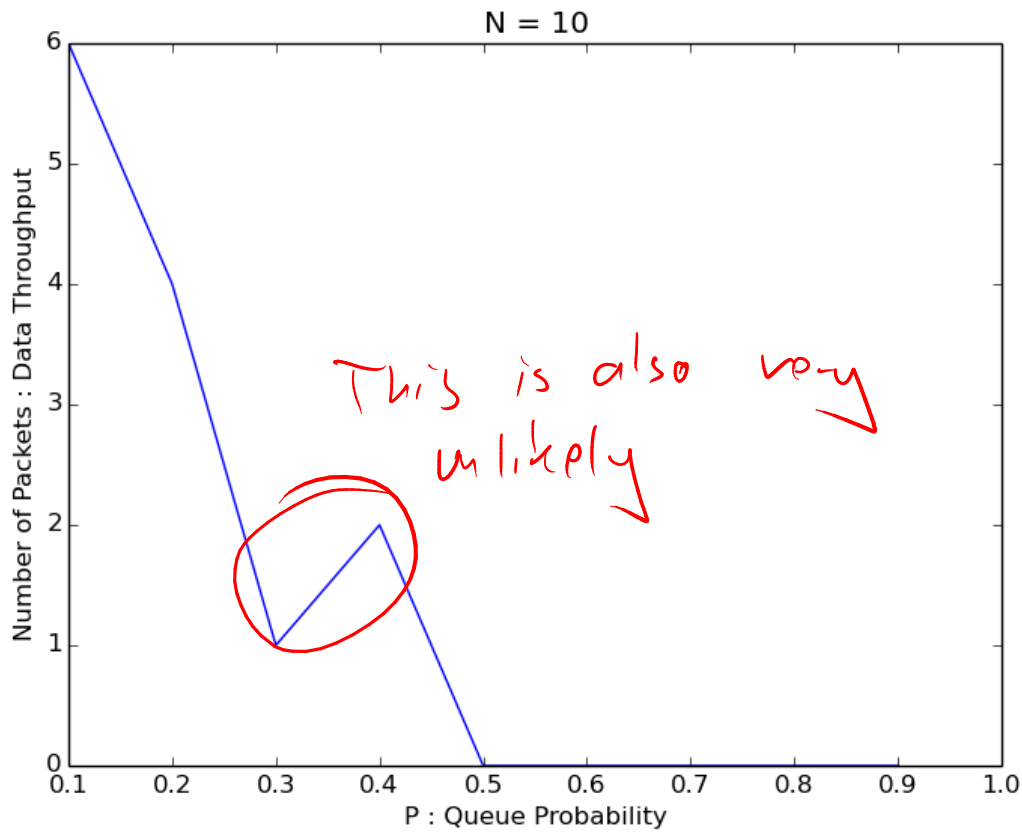
- 5 We cannot see retransmit, queue length etc.
- 10 No interpretation

2.iii: Created a series of XY plots which show the achieved user data throughput depending on the queue probability. Use the following parameters:

1. For $t = 1000; N = 2$ we get
2. For $t = 1000; N = 5$ we get
3. For $t = 1000; N = 10$ we get

this
seems
wrong!





- 10 Broken simulation / Plots,
no interpretation!

25/70

Use one PDF file!