



Computer Networks Laboratory

Lab Assignment-5 (L5)

26.09.2019

Piyush Sethia

Enr. no. 17114057

CS-2

Problem Statement 1:

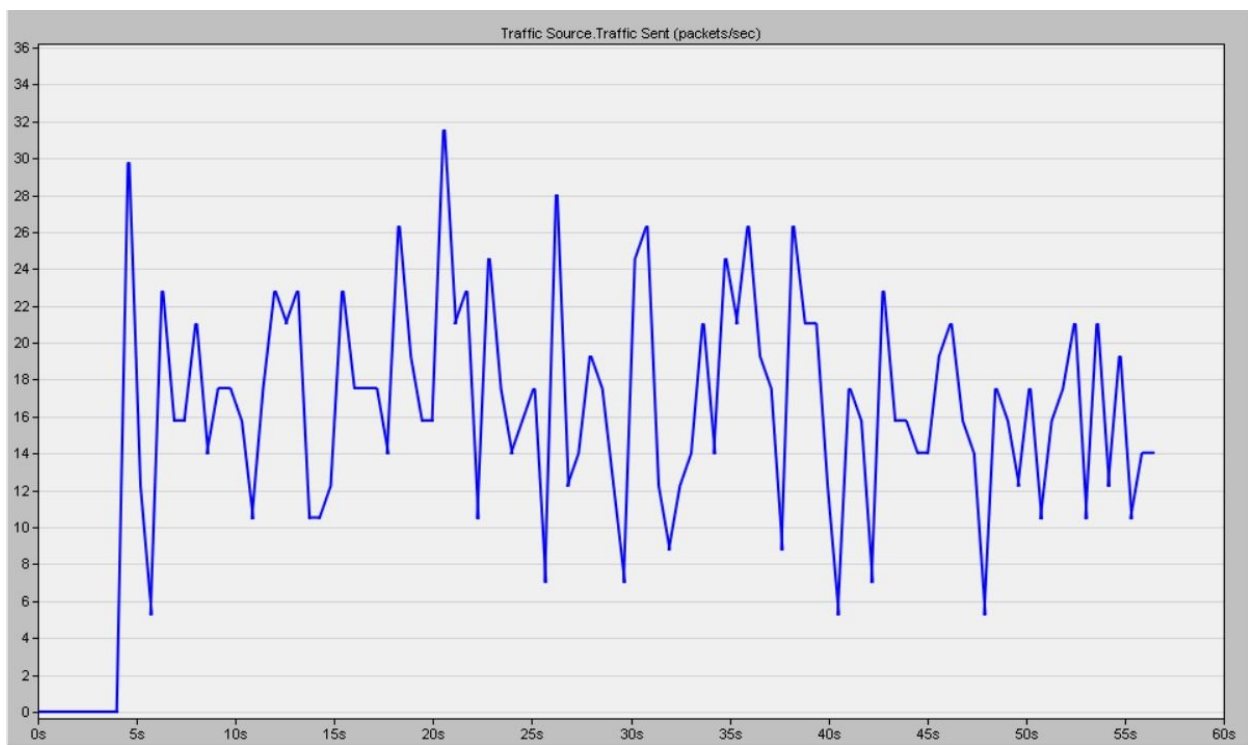
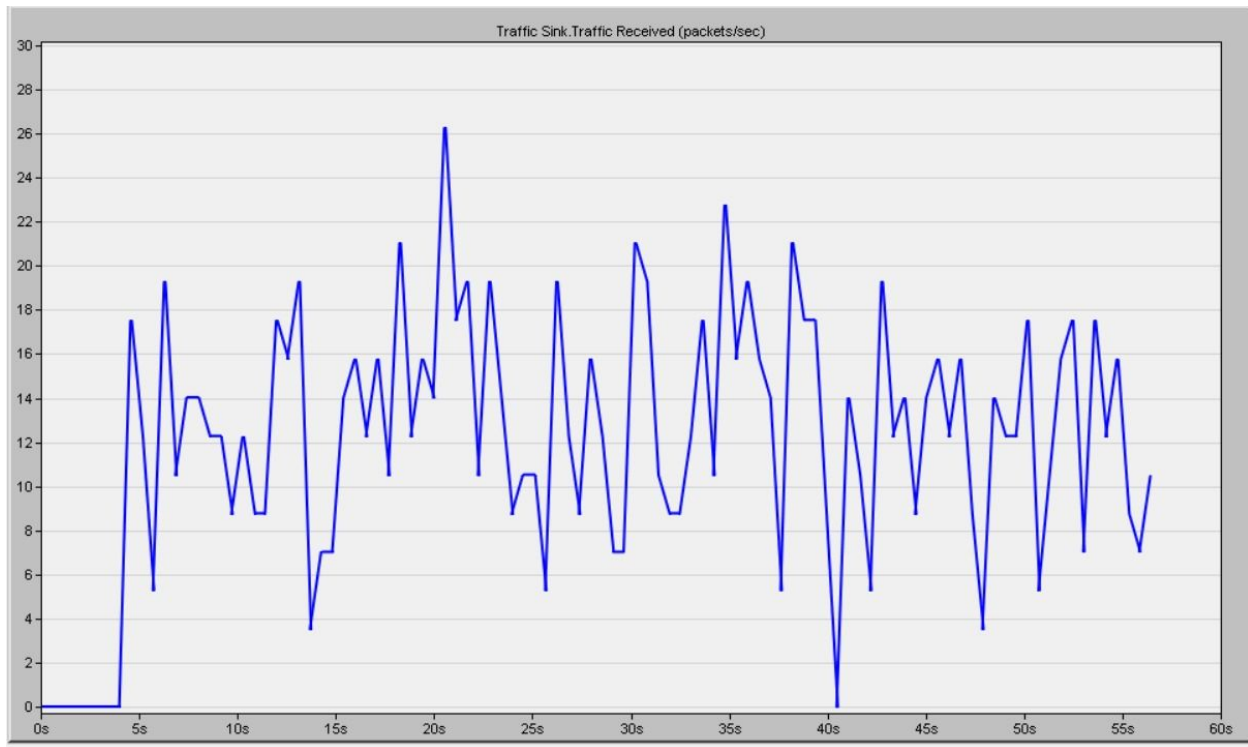
Using OPNET creates Bus topology among a set of N computer nodes out of which two nodes are the source and the rest are sink nodes. Model the traffic of source and sink nodes individually and demonstrate the packet transfer between them using Ethcoax (Ethernet using coaxial) cables. Use network scale as the “campus” of area 1km x 1km.

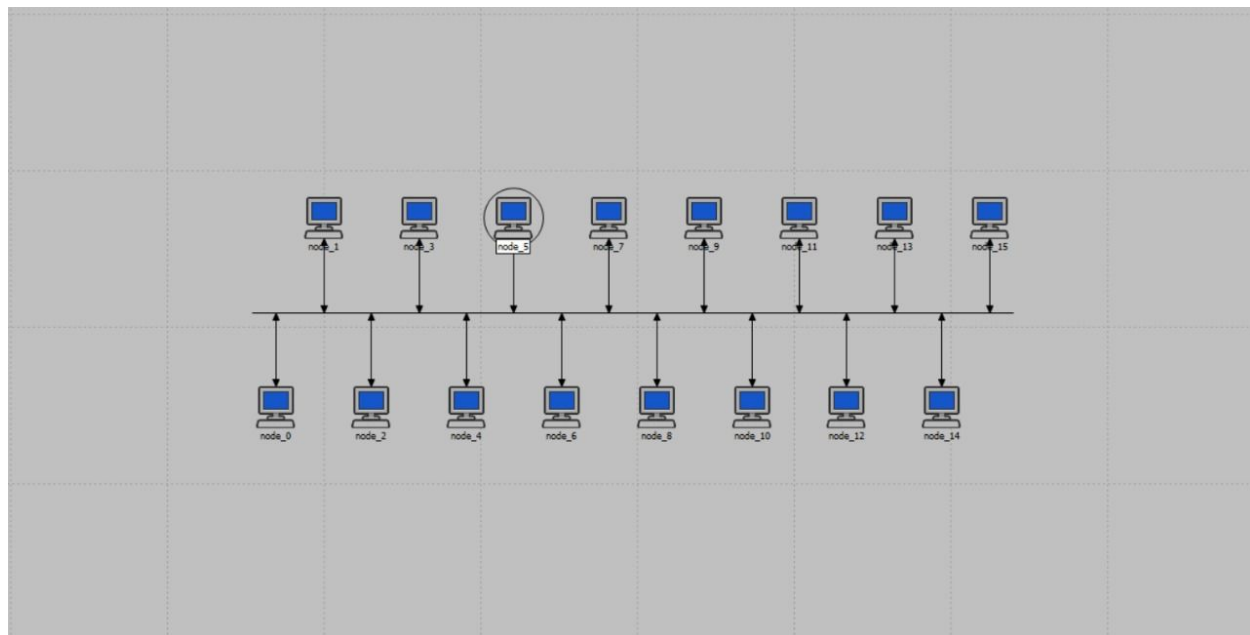
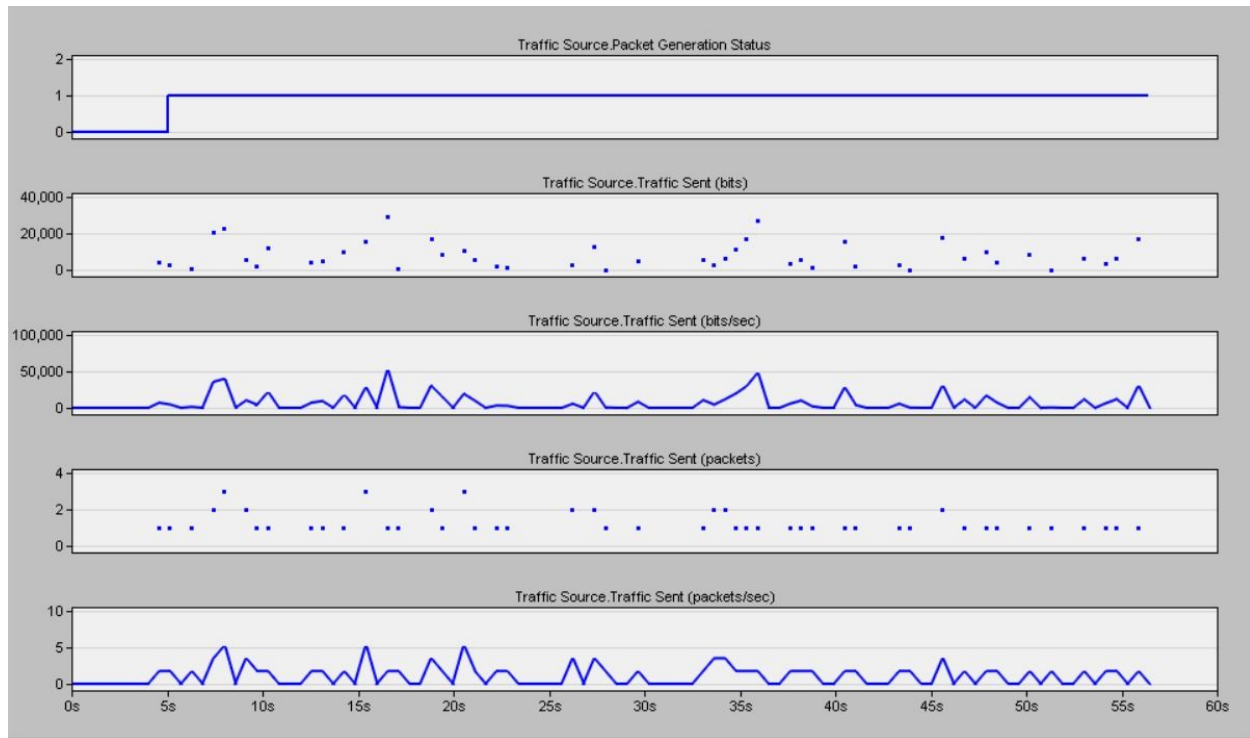
Algorithms:

- None

Data Structures:

- **Node:** Used **ethcoax_station** model to implement them.
- **Bus:** Denotes the link through which data is transferred.
- Used **eth_coax** model to implement the links.





Problem Statement 2:

Using OPNET create Star topology among a set of N computer nodes out of which one node is the source and the rest are sink nodes. Model the traffic of source and sink nodes individually and demonstrate the packet transfer between them using Ethcoax (Ethernet using coaxial) cables. Use network scale as the “campus” of area 1km x 1km.

Algorithms:

- None

Data Structures:

- **Node:** Used **ethernet16_hub** and **ethernet_station** to implement *central node* and *periphery node* respectively.
- **Link:** Used **10BaseT model**.

