Rip Implementation in ns2

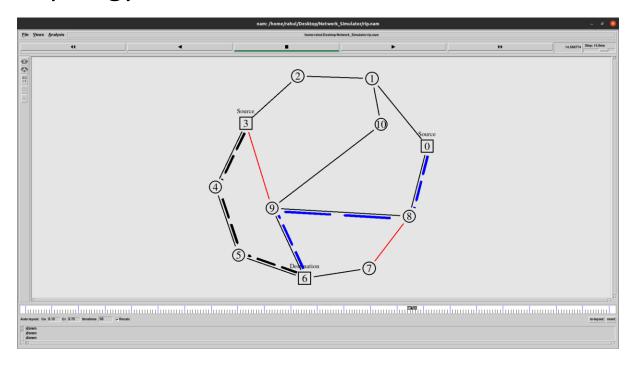
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Implementation

We have implemented RIP protocol which uses distance vector routing in the scenario where there are two source nodes transmitting data to the same destination node. We have also considered scenarios where a link gets dropped in between transmission and how the algorithm will react to these scenarios was simulated on NS2.

Topology



Code

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Trace file

Outputs

Observations and Challenges

While implementing RIP in ns2 we were able to observe how queuing happens at nodes and how the DV algorithm communicates and routes the data between nodes and at what point the packet dropping starts due to full queue.

The challenges we faced were designing the nodes and proper topology to implement all the scenarios and then extracting data from trace file and also calculation of the end - to - end delay was a bit confusing.