



Migrate Multipath Forwarding Strategy and Integrate ns3 TrafficControlLayer to Latest ndnSIM

Teng Liang - Klaus Schneider - Md Ashiqur Rahman - Proyash Poddar - Tarannum



/Motivation/and/problem/statement

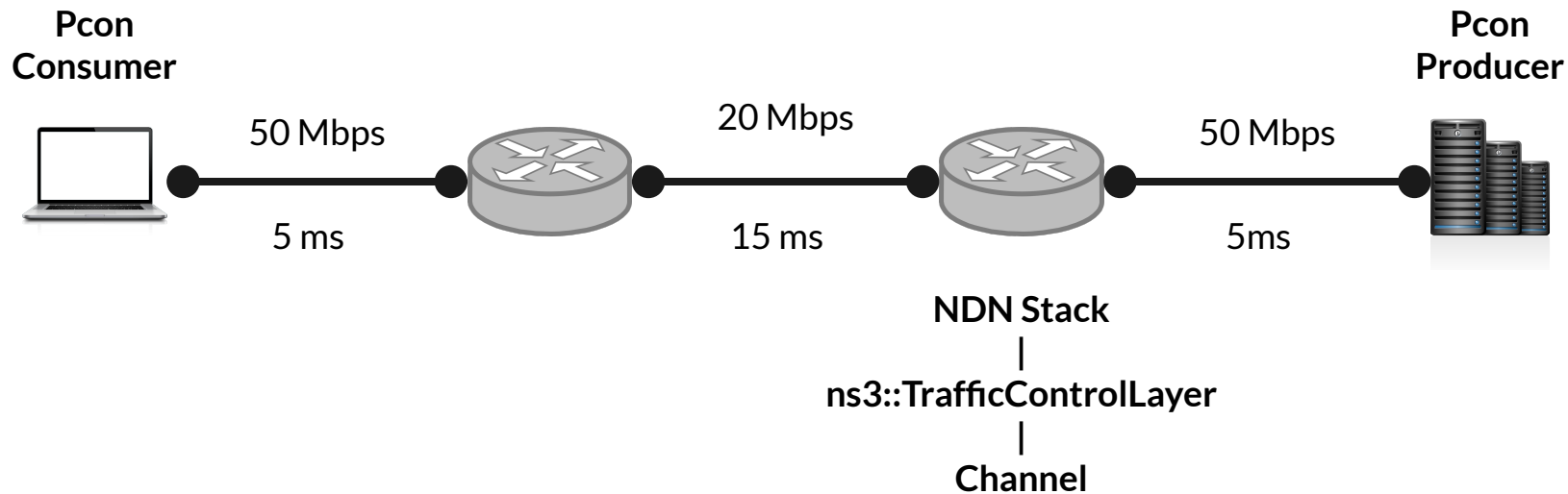
- Adaptive multipath forwarding is an important feature in NDN.
- Ns-3 provides an equivalent of the Linux Traffic Control infrastructure as `TrafficControlLayer`.
- However, latest ndnSIM is not providing any of these features.



/Tasks

- Use ns3::TrafficControlLayer in ndn-net-device-transport module.
 - Done with simple test
- Migrate Klaus code of multipath forwarding from ndnSIM 2.1 to ndnSIM 2.7.
 - Done with successful compilation, but no testing
- Integration tests with simple scenarios.
 - Simple test with PCON consumer app

/Simulation/Topology

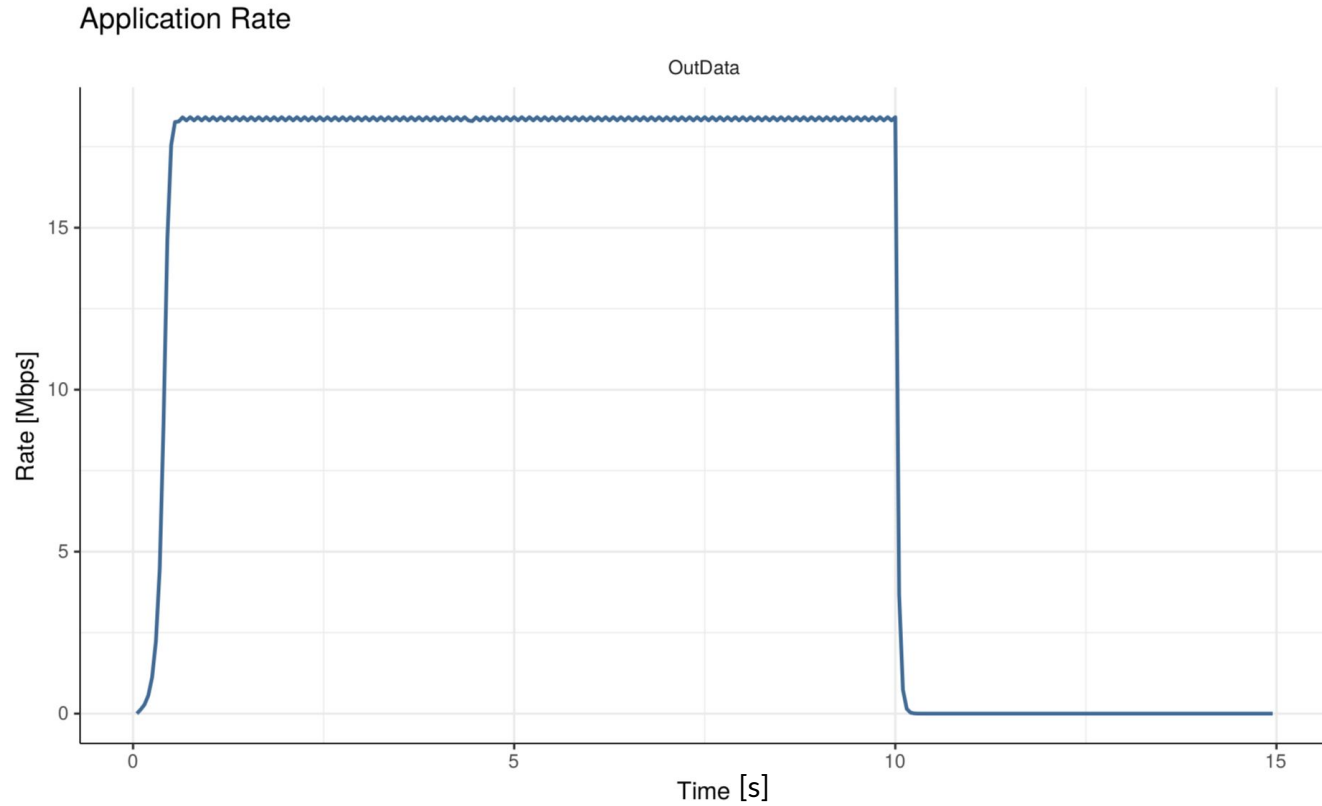


/Simulation

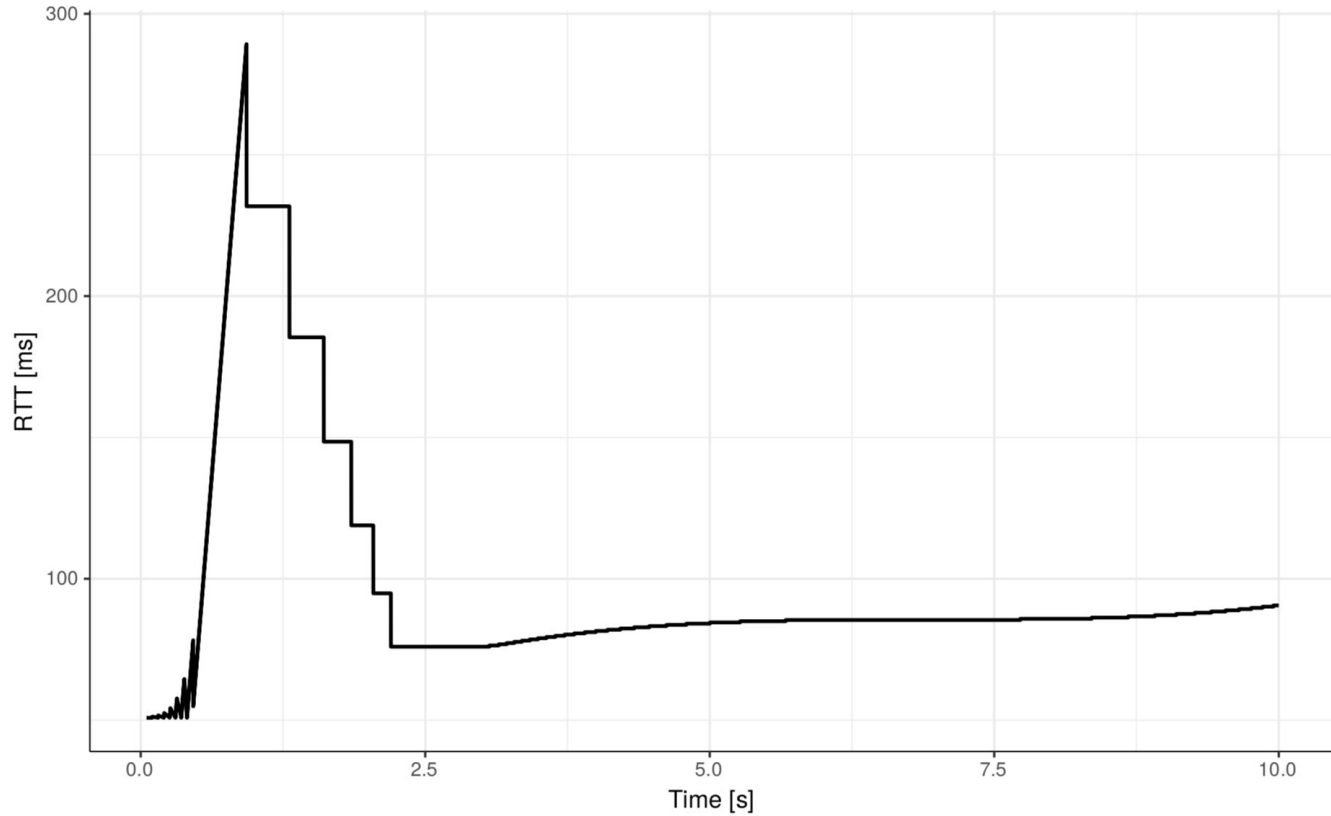
/Metrics

- Rate
- Delay
- Packet drop

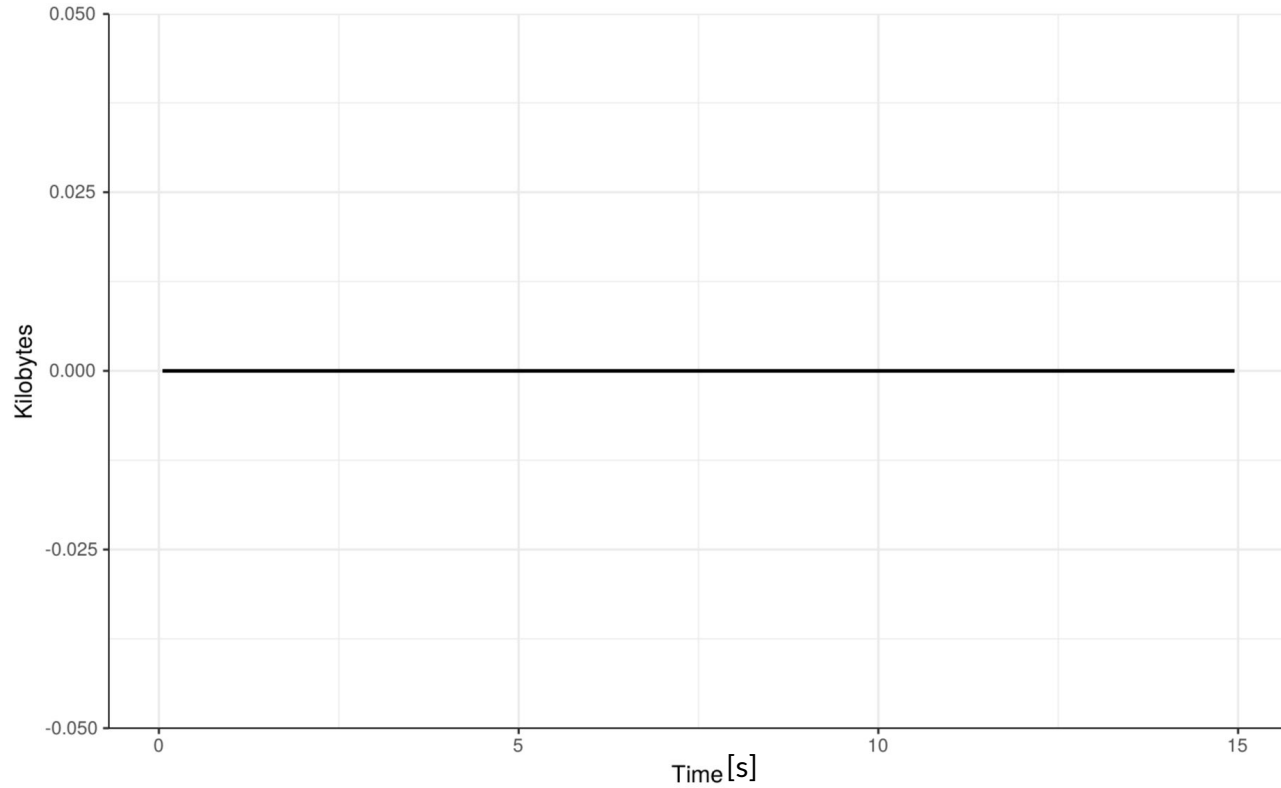
/Rate



/Delay



/Packet/Drop



Thank you
