Pantheon Report

Data path: AWS Korea Ethernet (local) → China Ethernet (remote).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (fq), and other schemes with the default Linux qdisc (pfifo_fast).
NTP offsets were measured against ntp.nict.jp and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb7c30d1c0322c3dfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f84c6a2bf1dc797253db7e8ca4076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4daa2e8987e893e3eca2a6c7cd0aabb
third_party/indigo-1-layer-128-unit @ 3ae9e4e4230d7b484501f82ce8377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d5838dc44f4e0edbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303ae82ea088e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaeb4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861ada659ba9013db2674ccf993
third_party/pcc @ 1af9958a0d6dd18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8aced08f2b924eb24f974ab
third_party/proto-quic @ 77961f1a827323a4b2421bc8143ec978f3c4f42
third_party/scream @ c3370f7b7bd17265a79aebe34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eeaeab30b267cda681
third_party/sprout @ 6f2ef6e088d91066a9f023df375ee2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s) flow 1</th>
<th>mean avg tput (Mbit/s) flow 2</th>
<th>mean avg tput (Mbit/s) flow 3</th>
<th>mean 95th-%ile delay (ms) flow 1</th>
<th>mean 95th-%ile delay (ms) flow 2</th>
<th>mean 95th-%ile delay (ms) flow 3</th>
<th>mean loss rate (%) flow 1</th>
<th>mean loss rate (%) flow 2</th>
<th>mean loss rate (%) flow 3</th>
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</table>
Run 1: Statistics of TCP BBR

Local clock offset: 4.046 ms
Remote clock offset: -0.484 ms

# Below is generated by plot.py at 2018-04-25 01:01:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.63 Mbit/s
  95th percentile per-packet one-way delay: 160.610 ms
  Loss rate: 9.55%
-- Flow 1:
  Average throughput: 48.15 Mbit/s
  95th percentile per-packet one-way delay: 159.633 ms
  Loss rate: 8.17%
-- Flow 2:
  Average throughput: 36.40 Mbit/s
  95th percentile per-packet one-way delay: 161.315 ms
  Loss rate: 10.48%
-- Flow 3:
  Average throughput: 24.81 Mbit/s
  95th percentile per-packet one-way delay: 161.158 ms
  Loss rate: 14.48%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-04-24 21:15:05  
Local clock offset: 2.523 ms  
Remote clock offset: -0.544 ms

# Below is generated by plot.py at 2018-04-25 01:01:31  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 79.70 Mbit/s
95th percentile per-packet one-way delay: 166.772 ms
Loss rate: 10.55%

-- Flow 1:
Average throughput: 51.14 Mbit/s
95th percentile per-packet one-way delay: 162.995 ms
Loss rate: 9.26%

-- Flow 2:
Average throughput: 33.98 Mbit/s
95th percentile per-packet one-way delay: 170.832 ms
Loss rate: 12.06%

-- Flow 3:
Average throughput: 19.96 Mbit/s
95th percentile per-packet one-way delay: 168.190 ms
Loss rate: 15.35%
Run 2: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 3: Statistics of TCP BBR

End at: 2018-04-24 21:38:45
Local clock offset: -0.462 ms
Remote clock offset: 2.491 ms

# Below is generated by plot.py at 2018-04-25 01:01:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 162.156 ms
Loss rate: 11.76%
-- Flow 1:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 161.331 ms
Loss rate: 10.04%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 162.280 ms
Loss rate: 12.69%
-- Flow 3:
Average throughput: 21.41 Mbit/s
95th percentile per-packet one-way delay: 172.981 ms
Loss rate: 20.46%
Run 3: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 54.04 Mbps)
- Flow 1 egress (mean 48.58 Mbps)
- Flow 2 ingress (mean 37.54 Mbps)
- Flow 2 egress (mean 32.75 Mbps)
- Flow 3 ingress (mean 24.29 Mbps)
- Flow 3 egress (mean 21.41 Mbps)

![Graph 2: Per-packet one-way delay (ms)]

- Flow 1 (95th percentile 161.33 ms)
- Flow 2 (95th percentile 162.28 ms)
- Flow 3 (95th percentile 172.98 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-04-24 22:01:16  
End at: 2018-04-24 22:01:46  
Local clock offset: -5.328 ms  
Remote clock offset: 4.405 ms  

# Below is generated by plot.py at 2018-04-25 01:01:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.59 Mbit/s  
95th percentile per-packet one-way delay: 162.124 ms  
Loss rate: 9.69%  
-- Flow 1:  
Average throughput: 49.89 Mbit/s  
95th percentile per-packet one-way delay: 160.212 ms  
Loss rate: 8.41%  
-- Flow 2:  
Average throughput: 33.34 Mbit/s  
95th percentile per-packet one-way delay: 162.990 ms  
Loss rate: 11.75%  
-- Flow 3:  
Average throughput: 22.55 Mbit/s  
95th percentile per-packet one-way delay: 162.218 ms  
Loss rate: 11.81%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2018-04-24 22:24:05
Local clock offset: 3.398 ms
Remote clock offset: 5.276 ms

# Below is generated by plot.py at 2018-04-25 01:01:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.18 Mbit/s
95th percentile per-packet one-way delay: 162.593 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 51.75 Mbit/s
95th percentile per-packet one-way delay: 162.605 ms
Loss rate: 7.16%
-- Flow 2:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 161.072 ms
Loss rate: 7.74%
-- Flow 3:
Average throughput: 16.41 Mbit/s
95th percentile per-packet one-way delay: 163.286 ms
Loss rate: 7.91%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Local clock offset: 2.608 ms
Remote clock offset: -0.41 ms

# Below is generated by plot.py at 2018-04-25 01:01:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.57 Mbit/s
95th percentile per-packet one-way delay: 160.259 ms
Loss rate: 9.65%
-- Flow 1:
Average throughput: 53.19 Mbit/s
95th percentile per-packet one-way delay: 160.149 ms
Loss rate: 9.16%
-- Flow 2:
Average throughput: 30.40 Mbit/s
95th percentile per-packet one-way delay: 160.129 ms
Loss rate: 8.54%
-- Flow 3:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 161.814 ms
Loss rate: 15.21%
Run 6: Report of TCP BBR — Data Link

![Throughput Graph]

![Delay Graph]
Run 7: Statistics of TCP BBR

Start at: 2018-04-24 23:10:05
End at: 2018-04-24 23:10:35
Local clock offset: -2.731 ms
Remote clock offset: -4.691 ms

# Below is generated by plot.py at 2018-04-25 01:01:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 164.373 ms
Loss rate: 9.22%
-- Flow 1:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 162.683 ms
Loss rate: 8.12%
-- Flow 2:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 166.644 ms
Loss rate: 10.46%
-- Flow 3:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 162.168 ms
Loss rate: 12.38%
Run 7: Report of TCP BBR — Data Link
Run 8: Statistics of TCP BBR

Start at: 2018-04-24 23:32:54
Local clock offset: -0.255 ms
Remote clock offset: -1.412 ms

# Below is generated by plot.py at 2018-04-25 01:01:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.21 Mbit/s
  95th percentile per-packet one-way delay: 165.721 ms
  Loss rate: 9.19%
-- Flow 1:
  Average throughput: 49.54 Mbit/s
  95th percentile per-packet one-way delay: 163.457 ms
  Loss rate: 8.43%
-- Flow 2:
  Average throughput: 34.80 Mbit/s
  95th percentile per-packet one-way delay: 163.419 ms
  Loss rate: 9.97%
-- Flow 3:
  Average throughput: 22.65 Mbit/s
  95th percentile per-packet one-way delay: 169.967 ms
  Loss rate: 11.65%
Run 8: Report of TCP BBR — Data Link

![Throughput graphs](chart1)

![Delay graphs](chart2)

Flow 1 ingress (mean 54.11 Mbit/s)
Flow 1 egress (mean 49.54 Mbit/s)
Flow 2 ingress (mean 38.66 Mbit/s)
Flow 2 egress (mean 34.80 Mbit/s)
Flow 3 ingress (mean 25.64 Mbit/s)
Flow 3 egress (mean 22.65 Mbit/s)

Flow 1 (95th percentile 163.46 ms)
Flow 2 (95th percentile 163.42 ms)
Flow 3 (95th percentile 169.97 ms)
Run 9: Statistics of TCP BBR

End at: 2018-04-24 23:56:45
Local clock offset: −1.919 ms
Remote clock offset: −1.721 ms

# Below is generated by plot.py at 2018-04-25 01:02:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.75 Mbit/s
  95th percentile per-packet one-way delay: 162.134 ms
  Loss rate: 8.15%
-- Flow 1:
  Average throughput: 52.26 Mbit/s
  95th percentile per-packet one-way delay: 160.985 ms
  Loss rate: 7.90%
-- Flow 2:
  Average throughput: 33.54 Mbit/s
  95th percentile per-packet one-way delay: 162.000 ms
  Loss rate: 8.47%
-- Flow 3:
  Average throughput: 18.98 Mbit/s
  95th percentile per-packet one-way delay: 165.296 ms
  Loss rate: 9.03%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-04-25 00:18:59
End at: 2018-04-25 00:19:29
Local clock offset: -4.813 ms
Remote clock offset: -1.709 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 79.92 Mbit/s
  95th percentile per-packet one-way delay: 162.672 ms
  Loss rate: 8.51%
-- Flow 1:
  Average throughput: 51.07 Mbit/s
  95th percentile per-packet one-way delay: 160.902 ms
  Loss rate: 7.57%
-- Flow 2:
  Average throughput: 30.79 Mbit/s
  95th percentile per-packet one-way delay: 166.086 ms
  Loss rate: 9.58%
-- Flow 3:
  Average throughput: 25.16 Mbit/s
  95th percentile per-packet one-way delay: 168.034 ms
  Loss rate: 11.49%
Run 10: Report of TCP BBR — Data Link

![Graph of Throughput]  

![Graph of Per-packet one-way delay]
Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 21:02:43
End at: 2018-04-24 21:03:13
Local clock offset: 3.852 ms
Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.41 Mbit/s
95th percentile per-packet one-way delay: 156.327 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 156.032 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 157.324 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 155.315 ms
Loss rate: 2.20%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

End at: 2018-04-24 21:26:25
Local clock offset: 2.322 ms
Remote clock offset: -0.609 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 41.38 Mbit/s
  95th percentile per-packet one-way delay: 158.295 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 24.61 Mbit/s
  95th percentile per-packet one-way delay: 158.178 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 20.96 Mbit/s
  95th percentile per-packet one-way delay: 158.832 ms
  Loss rate: 0.29%
-- Flow 3:
  Average throughput: 8.50 Mbit/s
  95th percentile per-packet one-way delay: 158.191 ms
  Loss rate: 1.21%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time for different traffic flows.]

- Flow 1 ingress (mean 24.68 Mbit/s)
- Flow 1 egress (mean 24.61 Mbit/s)
- Flow 2 ingress (mean 21.03 Mbit/s)
- Flow 2 egress (mean 20.96 Mbit/s)
- Flow 3 ingress (mean 8.60 Mbit/s)
- Flow 3 egress (mean 8.50 Mbit/s)

![Graph showing packet delay over time for different traffic flows.]

- Flow 1 (95th percentile 158.18 ms)
- Flow 2 (95th percentile 158.83 ms)
- Flow 3 (95th percentile 158.19 ms)
Run 3: Statistics of TCP Cubic

Local clock offset: -3.758 ms
Remote clock offset: 3.644 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.70 Mbit/s
95th percentile per-packet one-way delay: 154.606 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 154.845 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 13.44 Mbit/s
95th percentile per-packet one-way delay: 153.696 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 154.311 ms
Loss rate: 1.35%
Run 3: Report of TCP Cubic — Data Link

![Graph of throughput and packet delay over time for different flows with mean throughput values.]

- Flow 1 ingress (mean 10.93 Mbps)
- Flow 1 egress (mean 10.88 Mbps)
- Flow 2 ingress (mean 13.48 Mbps)
- Flow 2 egress (mean 13.44 Mbps)
- Flow 3 ingress (mean 8.69 Mbps)
- Flow 3 egress (mean 8.68 Mbps)

![Graph of packet delay over time for different flows with 95th percentile delay values.]

- Flow 1 (95th percentile 154.84 ms)
- Flow 2 (95th percentile 153.70 ms)
- Flow 3 (95th percentile 154.31 ms)
Run 4: Statistics of TCP Cubic

Local clock offset: -2.413 ms
Remote clock offset: 4.865 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 157.135 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 15.49 Mbit/s
95th percentile per-packet one-way delay: 156.835 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 16.75 Mbit/s
95th percentile per-packet one-way delay: 157.112 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 158.010 ms
Loss rate: 1.26%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

End at: 2018-04-24 22:35:11
Local clock offset: 5.642 ms
Remote clock offset: 5.837 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 21.11 Mbit/s
  95th percentile per-packet one-way delay: 158.386 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 12.97 Mbit/s
  95th percentile per-packet one-way delay: 158.617 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 8.17 Mbit/s
  95th percentile per-packet one-way delay: 157.767 ms
  Loss rate: 1.58%
-- Flow 3:
  Average throughput: 8.15 Mbit/s
  95th percentile per-packet one-way delay: 156.584 ms
  Loss rate: 2.07%
Run 5: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps/s) vs Time (s)]

- **Flow 1 ingress**: mean 13.01 Mbps/s
- **Flow 1 egress**: mean 12.97 Mbps/s
- **Flow 2 ingress**: mean 8.30 Mbps/s
- **Flow 2 egress**: mean 8.17 Mbps/s
- **Flow 3 ingress**: mean 8.33 Mbps/s
- **Flow 3 egress**: mean 8.15 Mbps/s

![Graph 2: Per-packet one-way delay (ms) vs Time (s)]

- **Flow 1 (95th percentile)**: 158.62 ms
- **Flow 2 (95th percentile)**: 157.77 ms
- **Flow 3 (95th percentile)**: 156.58 ms
Run 6: Statistics of TCP Cubic

Local clock offset: -1.437 ms  
Remote clock offset: -2.892 ms  

# Below is generated by plot.py at 2018-04-25 01:02:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.29 Mbit/s  
95th percentile per-packet one-way delay: 154.683 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 17.41 Mbit/s  
95th percentile per-packet one-way delay: 154.008 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 7.19 Mbit/s  
95th percentile per-packet one-way delay: 156.535 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 6.31 Mbit/s  
95th percentile per-packet one-way delay: 157.929 ms  
Loss rate: 2.12%
Run 6: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps/s) vs Time (s)]

- Flow 1 ingress (mean 17.46 Mbps/s)
- Flow 1 egress (mean 17.41 Mbps/s)
- Flow 2 ingress (mean 7.29 Mbps/s)
- Flow 2 egress (mean 7.19 Mbps/s)
- Flow 3 ingress (mean 6.44 Mbps/s)
- Flow 3 egress (mean 6.31 Mbps/s)

![Graph 2: Per-packet one way delay (ms)]

- Flow 1 (95th percentile 154.01 ms)
- Flow 2 (95th percentile 156.53 ms)
- Flow 3 (95th percentile 157.93 ms)
Run 7: Statistics of TCP Cubic

Local clock offset: -1.936 ms
Remote clock offset: -2.024 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 156.160 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 155.739 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 157.279 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 156.391 ms
Loss rate: 1.35%
Run 7: Report of TCP Cubic — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress (mean 29.69 Mbps)**
- **Flow 1 egress (mean 29.65 Mbps)**
- **Flow 2 ingress (mean 6.69 Mbps)**
- **Flow 2 egress (mean 6.63 Mbps)**
- **Flow 3 ingress (mean 8.75 Mbps)**
- **Flow 3 egress (mean 8.64 Mbps)**

**Per packet one way delay (ms)**

- **Flow 1 (95th percentile 155.74 ms)**
- **Flow 2 (95th percentile 157.28 ms)**
- **Flow 3 (95th percentile 156.39 ms)**
Run 8: Statistics of TCP Cubic

Run 8: Report of TCP Cubic — Data Link

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Run 9: Statistics of TCP Cubic

Start at: 2018-04-25 00:06:51
End at: 2018-04-25 00:07:21
Local clock offset: -3.938 ms
Remote clock offset: -1.7 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 154.933 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 14.66 Mbit/s
95th percentile per-packet one-way delay: 154.748 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 155.179 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 8.52 Mbit/s
95th percentile per-packet one-way delay: 155.391 ms
Loss rate: 1.41%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-04-25 00:29:36
End at: 2018-04-25 00:30:06
Local clock offset: -1.447 ms
Remote clock offset: -17.215 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 158.156 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 156.364 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 156.925 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 161.623 ms
Loss rate: 0.68%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 20:57:30
End at: 2018-04-24 20:58:00
Local clock offset: 4.269 ms
Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 153.991 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 153.563 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 154.117 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 154.585 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Local clock offset: 2.545 ms
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 153.281 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 153.421 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 153.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 153.315 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

![Graph showing network performance metrics](image_url)

- **Throughput (Mbps)**: The top graph tracks the throughput over time for different flows, with markers indicating ingress and egress data rates.
- **Packet Delay (ms)**: The bottom graph shows packet delay over time, with distinct markers for each flow's 95th percentile delay.

Legend:
- Flow 1 ingress (mean 7.31 Mbps) - Blue dashed line
- Flow 1 egress (mean 7.27 Mbps) - Blue solid line
- Flow 2 ingress (mean 6.57 Mbps) - Red dashed line
- Flow 2 egress (mean 6.57 Mbps) - Red solid line
- Flow 3 ingress (mean 3.11 Mbps) - Green dashed line
- Flow 3 egress (mean 3.13 Mbps) - Green solid line

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Run 3: Statistics of LEDBAT

End at: 2018-04-24 21:44:08
Local clock offset: -2.179 ms
Remote clock offset: 3.096 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.35 Mbit/s
  95th percentile per-packet one-way delay: 154.207 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 8.02 Mbit/s
  95th percentile per-packet one-way delay: 154.345 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 6.50 Mbit/s
  95th percentile per-packet one-way delay: 154.162 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 3.10 Mbit/s
  95th percentile per-packet one-way delay: 153.695 ms
  Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Throughput and Delay Diagrams](image-url)
Run 4: Statistics of LEDBAT

End at: 2018-04-24 22:07:09
Local clock offset: -6.073 ms
Remote clock offset: 4.643 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.03 Mbit/s
  95th percentile per-packet one-way delay: 155.025 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 9.71 Mbit/s
  95th percentile per-packet one-way delay: 155.288 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 6.47 Mbit/s
  95th percentile per-packet one-way delay: 154.280 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 3.11 Mbit/s
  95th percentile per-packet one-way delay: 153.701 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

![Data Link Throughput Graph]

![Data Link Delay Graph]

Flow 1 ingress (mean 9.71 Mbit/s)  
Flow 1 egress (mean 9.71 Mbit/s)  
Flow 2 ingress (mean 6.47 Mbit/s)  
Flow 2 egress (mean 6.47 Mbit/s)  
Flow 3 ingress (mean 3.11 Mbit/s)  
Flow 3 egress (mean 3.11 Mbit/s)

Flow 1 (95th percentile 155.29 ms)  
Flow 2 (95th percentile 154.28 ms)  
Flow 3 (95th percentile 153.70 ms)
Run 5: Statistics of LEDBAT

Local clock offset: 4.64 ms
Remote clock offset: 5.531 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.04 Mbit/s
95th percentile per-packet one-way delay: 155.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 155.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 153.623 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 155.236 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Local clock offset: -0.102 ms
Remote clock offset: -1.978 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.93 Mbit/s
  95th percentile per-packet one-way delay: 154.949 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 9.67 Mbit/s
  95th percentile per-packet one-way delay: 154.465 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 6.40 Mbit/s
  95th percentile per-packet one-way delay: 153.709 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 3.08 Mbit/s
  95th percentile per-packet one-way delay: 155.543 ms
  Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link

![Graph showing throughput and per-packet one way delay over time for different flows.](image-url)
Run 7: Statistics of LEDBAT

Local clock offset: -3.0 ms
Remote clock offset: -2.939 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.22 Mbit/s
95th percentile per-packet one-way delay: 153.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.92 Mbit/s
95th percentile per-packet one-way delay: 152.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 153.159 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 153.862 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-04-24 23:38:16
End at: 2018-04-24 23:38:46
Local clock offset: 0.052 ms
Remote clock offset: -1.787 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 154.783 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 154.855 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 5.44 Mbit/s
95th percentile per-packet one-way delay: 155.079 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 153.030 ms
Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link

![Graph of Throughput (Mbps) vs Time (s)]

![Graph of Per-Packet End-to-End Delay (ms) vs Time (s)]

Legend:
- Flow 1 ingress (mean 5.04 Mbps)
- Flow 1 egress (mean 5.02 Mbps)
- Flow 2 ingress (mean 5.44 Mbps)
- Flow 2 egress (mean 5.44 Mbps)
- Flow 3 ingress (mean 3.19 Mbps)
- Flow 3 egress (mean 3.19 Mbps)

![Flow 1 (95th percentile 154.85 ms)]
- Flow 2 (95th percentile 155.08 ms)
- Flow 3 (95th percentile 153.03 ms)
Run 9: Statistics of LEDBAT

Start at: 2018-04-25 00:01:38
End at: 2018-04-25 00:02:08
Local clock offset: -3.123 ms
Remote clock offset: -1.729 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 9.44 Mbit/s
  95th percentile per-packet one-way delay: 157.586 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 5.36 Mbit/s
  95th percentile per-packet one-way delay: 153.283 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 4.58 Mbit/s
  95th percentile per-packet one-way delay: 158.848 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 3.17 Mbit/s
  95th percentile per-packet one-way delay: 153.762 ms
  Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-04-25 00:24:22
End at: 2018-04-25 00:24:52
Local clock offset: -5.319 ms
Remote clock offset: -17.489 ms

# Below is generated by plot.py at 2018-04-25 01:02:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.16 Mbit/s
95th percentile per-packet one-way delay: 153.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 153.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 153.898 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 154.075 ms
Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link
Run 1: Statistics of PCC-Allegro

Local clock offset: 3.795 ms
Remote clock offset: -0.589 ms

# Below is generated by plot.py at 2018-04-25 01:04:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 161.761 ms
Loss rate: 2.84%

-- Flow 1:
Average throughput: 71.81 Mbit/s
95th percentile per-packet one-way delay: 161.661 ms
Loss rate: 2.77%

-- Flow 2:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 163.842 ms
Loss rate: 3.00%

-- Flow 3:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 162.457 ms
Loss rate: 4.09%
Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 21:12:21
End at: 2018-04-24 21:12:51
Local clock offset: 2.527 ms
Remote clock offset: -0.523 ms

# Below is generated by plot.py at 2018-04-25 01:04:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 163.284 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 80.04 Mbit/s
95th percentile per-packet one-way delay: 163.294 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 8.66 Mbit/s
95th percentile per-packet one-way delay: 162.357 ms
Loss rate: 2.51%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 161.855 ms
Loss rate: 2.60%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 21:35:24
End at: 2018-04-24 21:35:54
Local clock offset: 1.049 ms
Remote clock offset: 1.868 ms

# Below is generated by plot.py at 2018-04-25 01:04:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.35 Mbit/s
95th percentile per-packet one-way delay: 167.418 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 167.660 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 163.791 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 163.889 ms
Loss rate: 4.46%
Run 3: Report of PCC-Allegro — Data Link

![Graph 1: Throughput vs. Time (Mbps)](image1)

![Graph 2: Delay vs. Time (ms)](image2)
Run 4: Statistics of PCC-Allegro

End at: 2018-04-24 21:59:02  
Local clock offset: -5.03 ms  
Remote clock offset: 14.119 ms

# Below is generated by plot.py at 2018-04-25 01:04:15  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 86.26 Mbit/s
95th percentile per-packet one-way delay: 174.825 ms
Loss rate: 2.73%

-- Flow 1:
Average throughput: 79.73 Mbit/s
95th percentile per-packet one-way delay: 174.834 ms
Loss rate: 2.60%

-- Flow 2:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 174.683 ms
Loss rate: 3.95%

-- Flow 3:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 174.962 ms
Loss rate: 5.84%
Run 4: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)](image1.png)

![Graph 2: Per-packet one-way delay (ms)](image2.png)
Run 5: Statistics of PCC-Allegro

Local clock offset: 2.563 ms
Remote clock offset: 5.261 ms

# Below is generated by plot.py at 2018-04-25 01:04:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.19 Mbit/s
  95th percentile per-packet one-way delay: 163.902 ms
  Loss rate: 2.81%
-- Flow 1:
  Average throughput: 72.04 Mbit/s
  95th percentile per-packet one-way delay: 163.994 ms
  Loss rate: 2.77%
-- Flow 2:
  Average throughput: 16.10 Mbit/s
  95th percentile per-packet one-way delay: 163.563 ms
  Loss rate: 2.89%
-- Flow 3:
  Average throughput: 4.35 Mbit/s
  95th percentile per-packet one-way delay: 164.401 ms
  Loss rate: 3.88%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Local clock offset: 4.751 ms  
Remote clock offset: 0.55 ms

# Below is generated by plot.py at 2018-04-25 01:04:24  
# Datalink statistics
-- Total of 3 flows:  
  Average throughput: 86.33 Mbit/s  
  95th percentile per-packet one-way delay: 165.456 ms  
  Loss rate: 2.90%  
-- Flow 1:  
  Average throughput: 78.29 Mbit/s  
  95th percentile per-packet one-way delay: 165.475 ms  
  Loss rate: 2.72%  
-- Flow 2:  
  Average throughput: 8.14 Mbit/s  
  95th percentile per-packet one-way delay: 163.186 ms  
  Loss rate: 4.42%  
-- Flow 3:  
  Average throughput: 7.97 Mbit/s  
  95th percentile per-packet one-way delay: 164.723 ms  
  Loss rate: 5.09%
Run 6: Report of PCC-Allegro — Data Link

![Graph showing throughput and delay over time for different flows.]

Flow 1 ingress (mean 80.50 Mbit/s)  
Flow 1 egress (mean 78.29 Mbit/s)  
Flow 2 ingress (mean 8.51 Mbit/s)  
Flow 2 egress (mean 8.14 Mbit/s)  
Flow 3 ingress (mean 8.40 Mbit/s)  
Flow 3 egress (mean 7.97 Mbit/s)  

Flow 1 (95th percentile 165.47 ms)  
Flow 2 (95th percentile 163.19 ms)  
Flow 3 (95th percentile 164.72 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 23:07:21
End at: 2018-04-24 23:07:51
Local clock offset: -2.752 ms
Remote clock offset: -4.297 ms

# Below is generated by plot.py at 2018-04-25 01:04:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 86.33 Mbit/s
  95th percentile per-packet one-way delay: 162.774 ms
  Loss rate: 2.23%
-- Flow 1:
  Average throughput: 79.26 Mbit/s
  95th percentile per-packet one-way delay: 162.822 ms
  Loss rate: 2.21%
-- Flow 2:
  Average throughput: 8.49 Mbit/s
  95th percentile per-packet one-way delay: 162.846 ms
  Loss rate: 2.43%
-- Flow 3:
  Average throughput: 4.31 Mbit/s
  95th percentile per-packet one-way delay: 161.664 ms
  Loss rate: 2.23%
Run 7: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)](image)

- **Flow 1 ingress (mean 81.06 Mbps)**
- **Flow 1 egress (mean 79.26 Mbps)**
- **Flow 2 ingress (mean 8.70 Mbps)**
- **Flow 2 egress (mean 8.49 Mbps)**
- **Flow 3 ingress (mean 4.41 Mbps)**
- **Flow 3 egress (mean 4.31 Mbps)**

![Graph 2: Per-packet one-way delay (ms)](image)

- **Flow 1 (95th percentile 162.92 ms)**
- **Flow 2 (95th percentile 162.85 ms)**
- **Flow 3 (95th percentile 161.66 ms)**
Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 23:30:09
End at: 2018-04-24 23:30:39
Local clock offset: -0.691 ms
Remote clock offset: -1.493 ms

# Below is generated by plot.py at 2018-04-25 01:04:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.06 Mbit/s
  95th percentile per-packet one-way delay: 162.372 ms
  Loss rate: 2.23%
-- Flow 1:
  Average throughput: 79.84 Mbit/s
  95th percentile per-packet one-way delay: 162.365 ms
  Loss rate: 2.16%
-- Flow 2:
  Average throughput: 4.20 Mbit/s
  95th percentile per-packet one-way delay: 161.388 ms
  Loss rate: 3.60%
-- Flow 3:
  Average throughput: 4.34 Mbit/s
  95th percentile per-packet one-way delay: 164.062 ms
  Loss rate: 3.48%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 23:53:34
End at: 2018-04-24 23:54:04
Local clock offset: -1.016 ms
Remote clock offset: -1.694 ms

# Below is generated by plot.py at 2018-04-25 01:05:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 166.345 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 79.68 Mbit/s
95th percentile per-packet one-way delay: 166.317 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 168.799 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 163.807 ms
Loss rate: 2.99%
Run 9: Report of PCC-Allegro — Data Link

![Graph 1: Throughput vs. Time](image1)

- Flow 1 ingress (mean 81.68 Mbit/s)
- Flow 1 egress (mean 79.68 Mbit/s)
- Flow 2 ingress (mean 8.44 Mbit/s)
- Flow 2 egress (mean 5.13 Mbit/s)
- Flow 3 ingress (mean 4.43 Mbit/s)
- Flow 3 egress (mean 4.30 Mbit/s)

![Graph 2: Per-packet one-way delay vs. Time](image2)

- Flow 1 (95th percentile 166.32 ms)
- Flow 2 (95th percentile 168.80 ms)
- Flow 3 (95th percentile 163.81 ms)

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Run 10: Statistics of PCC-Allegro

Start at: 2018-04-25 00:16:19  
End at: 2018-04-25 00:16:49  
Local clock offset: -4.845 ms  
Remote clock offset: -1.753 ms

# Below is generated by plot.py at 2018-04-25 01:05:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.63 Mbit/s  
95th percentile per-packet one-way delay: 163.770 ms  
Loss rate: 2.94%  
-- Flow 1:  
Average throughput: 78.44 Mbit/s  
95th percentile per-packet one-way delay: 163.487 ms  
Loss rate: 2.84%  
-- Flow 2:  
Average throughput: 8.29 Mbit/s  
95th percentile per-packet one-way delay: 165.690 ms  
Loss rate: 3.68%  
-- Flow 3:  
Average throughput: 8.34 Mbit/s  
95th percentile per-packet one-way delay: 162.445 ms  
Loss rate: 4.03%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 20:56:10
End at: 2018-04-24 20:56:40
Local clock offset: 4.359 ms
Remote clock offset: -0.513 ms

# Below is generated by plot.py at 2018-04-25 01:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 158.610 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 157.453 ms
Loss rate: 4.18%
-- Flow 2:
Average throughput: 16.71 Mbit/s
95th percentile per-packet one-way delay: 158.867 ms
Loss rate: 7.37%
-- Flow 3:
Average throughput: 21.75 Mbit/s
95th percentile per-packet one-way delay: 159.841 ms
Loss rate: 1.91%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

End at: 2018-04-24 21:19:51
Local clock offset: 2.595 ms
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2018-04-25 01:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.60 Mbit/s
95th percentile per-packet one-way delay: 158.026 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 35.37 Mbit/s
95th percentile per-packet one-way delay: 157.485 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 157.950 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 160.596 ms
Loss rate: 0.53%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Local clock offset: -2.21 ms
Remote clock offset: 2.985 ms

# Below is generated by plot.py at 2018-04-25 01:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.18 Mbit/s
95th percentile per-packet one-way delay: 160.760 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 23.01 Mbit/s
95th percentile per-packet one-way delay: 158.738 ms
Loss rate: 3.84%
-- Flow 2:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 162.458 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 157.886 ms
Loss rate: 0.17%
Run 3: Report of QUIC Cubic — Data Link

![Graph of throughput and packet delay over time]

Legend:
- Flow 1 ingress (mean 23.93 Mbit/s)
- Flow 1 egress (mean 23.01 Mbit/s)
- Flow 2 ingress (mean 29.00 Mbit/s)
- Flow 2 egress (mean 28.44 Mbit/s)
- Flow 3 ingress (mean 4.12 Mbit/s)
- Flow 3 egress (mean 4.11 Mbit/s)

![Graph of packet delay over time]

Legend:
- Flow 1 (95th percentile 158.74 ms)
- Flow 2 (95th percentile 162.46 ms)
- Flow 3 (95th percentile 157.89 ms)
Run 4: Statistics of QUIC Cubic

End at: 2018-04-24 22:05:50
Local clock offset: -5.857 ms
Remote clock offset: 4.568 ms

# Below is generated by plot.py at 2018-04-25 01:05:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 42.81 Mbit/s
  95th percentile per-packet one-way delay: 159.277 ms
  Loss rate: 4.25%
-- Flow 1:
  Average throughput: 24.59 Mbit/s
  95th percentile per-packet one-way delay: 158.444 ms
  Loss rate: 3.81%
-- Flow 2:
  Average throughput: 17.31 Mbit/s
  95th percentile per-packet one-way delay: 159.377 ms
  Loss rate: 6.59%
-- Flow 3:
  Average throughput: 20.89 Mbit/s
  95th percentile per-packet one-way delay: 160.958 ms
  Loss rate: 1.72%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Local clock offset: 4.542 ms
Remote clock offset: 5.506 ms

# Below is generated by plot.py at 2018-04-25 01:05:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 47.86 Mbit/s
  95th percentile per-packet one-way delay: 158.604 ms
  Loss rate: 0.99%
-- Flow 1:
  Average throughput: 30.46 Mbit/s
  95th percentile per-packet one-way delay: 159.086 ms
  Loss rate: 1.31%
-- Flow 2:
  Average throughput: 17.07 Mbit/s
  95th percentile per-packet one-way delay: 155.230 ms
  Loss rate: 0.45%
-- Flow 3:
  Average throughput: 18.93 Mbit/s
  95th percentile per-packet one-way delay: 156.362 ms
  Loss rate: 0.42%
Run 5: Report of QUIC Cubic — Data Link

![Throughput Graph]

![Per-packet One Way Delay Graph]

Legend:
- Flow 1 ingress (mean 30.87 Mbit/s)
- Flow 1 egress (mean 30.46 Mbit/s)
- Flow 2 ingress (mean 17.15 Mbit/s)
- Flow 2 egress (mean 17.07 Mbit/s)
- Flow 3 ingress (mean 19.01 Mbit/s)
- Flow 3 egress (mean 16.93 Mbit/s)
Run 6: Statistics of QUIC Cubic

Local clock offset: 0.341 ms
Remote clock offset: -1.642 ms

# Below is generated by plot.py at 2018-04-25 01:05:48
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 45.08 Mbit/s
   95th percentile per-packet one-way delay: 157.661 ms
   Loss rate: 1.75%
-- Flow 1:
   Average throughput: 22.84 Mbit/s
   95th percentile per-packet one-way delay: 157.608 ms
   Loss rate: 1.51%
-- Flow 2:
   Average throughput: 27.62 Mbit/s
   95th percentile per-packet one-way delay: 157.891 ms
   Loss rate: 2.38%
-- Flow 3:
   Average throughput: 12.12 Mbit/s
   95th percentile per-packet one-way delay: 156.478 ms
   Loss rate: 0.19%
Run 6: Report of QUIC Cubic — Data Link

![Graph showing throughput and round-trip delay over time for three flows.]

- **Flow 1 Ingress** (mean 23.19 Mbps)
- **Flow 1 Egress** (mean 22.84 Mbps)
- **Flow 2 Ingress** (mean 28.30 Mbps)
- **Flow 2 Egress** (mean 27.62 Mbps)
- **Flow 3 Ingress** (mean 12.14 Mbps)
- **Flow 3 Egress** (mean 12.12 Mbps)
Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 23:14:08
End at: 2018-04-24 23:14:38
Local clock offset: -3.056 ms
Remote clock offset: -3.274 ms

# Below is generated by plot.py at 2018-04-25 01:06:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 157.693 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 157.996 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 155.508 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 157.438 ms
Loss rate: 1.56%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 23:36:56
End at: 2018-04-24 23:37:26
Local clock offset: -0.108 ms
Remote clock offset: -1.727 ms

# Below is generated by plot.py at 2018-04-25 01:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.86 Mbit/s
95th percentile per-packet one-way delay: 159.486 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 28.91 Mbit/s
95th percentile per-packet one-way delay: 158.581 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 16.15 Mbit/s
95th percentile per-packet one-way delay: 160.980 ms
Loss rate: 8.33%
-- Flow 3:
Average throughput: 19.44 Mbit/s
95th percentile per-packet one-way delay: 157.027 ms
Loss rate: 2.44%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-25 00:00:18  
End at: 2018-04-25 00:00:48  
Local clock offset: -2.927 ms  
Remote clock offset: -1.77 ms

# Below is generated by plot.py at 2018-04-25 01:06:14  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 44.51 Mbit/s  
  95th percentile per-packet one-way delay: 158.364 ms  
  Loss rate: 2.91%  
-- Flow 1:  
  Average throughput: 26.81 Mbit/s  
  95th percentile per-packet one-way delay: 158.380 ms  
  Loss rate: 1.62%  
-- Flow 2:  
  Average throughput: 15.61 Mbit/s  
  95th percentile per-packet one-way delay: 157.991 ms  
  Loss rate: 6.59%  
-- Flow 3:  
  Average throughput: 22.83 Mbit/s  
  95th percentile per-packet one-way delay: 158.670 ms  
  Loss rate: 2.14%
Run 9: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs. Time](image1)

- Flow 1 ingress (mean 27.25 Mbit/s)
- Flow 1 egress (mean 26.81 Mbit/s)
- Flow 2 ingress (mean 16.72 Mbit/s)
- Flow 2 egress (mean 15.61 Mbit/s)
- Flow 3 ingress (mean 23.33 Mbit/s)
- Flow 3 egress (mean 22.63 Mbit/s)

![Graph 2: Per-packet one-way delay vs. Time](image2)

- Flow 1 (95th percentile 158.38 ms)
- Flow 2 (95th percentile 157.99 ms)
- Flow 3 (95th percentile 158.67 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-25 00:23:02
End at: 2018-04-25 00:23:32
Local clock offset: -5.159 ms
Remote clock offset: -1.26 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.79 Mbit/s
95th percentile per-packet one-way delay: 169.426 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 169.059 ms
Loss rate: 2.56%
-- Flow 2:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 169.441 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 23.58 Mbit/s
95th percentile per-packet one-way delay: 170.329 ms
Loss rate: 2.00%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-04-24 21:05:24
End at: 2018-04-24 21:05:54
Local clock offset: 3.314 ms
Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 157.225 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 154.691 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 152.281 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 157.330 ms
  Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

![Graph showing network performance metrics over time. The graphs display throughput and packet delay for different flows, with annotations indicating mean and 95th percentile values.](image-url)
Run 2: Statistics of SCReAM

End at: 2018-04-24 21:29:06
Local clock offset: 2.377 ms
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.122 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.592 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph showing throughput and one-way delay over time for different flows.]

- **Throughput (Mbps)**: The graph plots throughput in Mbps over time for different flows. The x-axis represents time in seconds, and the y-axis represents throughput in Mbps.
- **One-Way Delay (ms)**: The graph plots one-way delay over time for different flows. The x-axis represents time in seconds, and the y-axis represents one-way delay in milliseconds.

Legend:
- Flow 1 ingress (mean 0.22 Mbps)
- Flow 1 egress (mean 0.22 Mbps)
- Flow 2 ingress (mean 0.22 Mbps)
- Flow 2 egress (mean 0.22 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)
Run 3: Statistics of SCReAM

End at: 2018-04-24 21:52:03
Local clock offset: -4.05 ms
Remote clock offset: 3.858 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 0.44 Mbit/s
   95th percentile per-packet one-way delay: 152.329 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 152.109 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 152.348 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 152.438 ms
   Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

End at: 2018-04-24 22:15:02
Local clock offset: -0.407 ms
Remote clock offset: 4.961 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.889 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.837 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.999 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.994 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Local clock offset: 5.975 ms
Remote clock offset: 4.61 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 154.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 154.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.695 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.22 Mbps)  Flow 1 egress (mean 0.22 Mbps)
Flow 2 ingress (mean 0.22 Mbps)  Flow 2 egress (mean 0.22 Mbps)
Flow 3 ingress (mean 0.22 Mbps)  Flow 3 egress (mean 0.22 Mbps)

Delay (ms)

Time (s)

* Flow 1 (95th percentile 152.86 ms)  Flow 2 (95th percentile 154.29 ms)  Flow 3 (95th percentile 153.69 ms)
Run 6: Statistics of SCReAM

Start at: 2018-04-24 23:00:33
End at: 2018-04-24 23:01:03
Local clock offset: -1.864 ms
Remote clock offset: -3.349 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 153.388 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 153.415 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 152.193 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 152.339 ms
  Loss rate: 0.00%
Run 7: Statistics of SCReAM

Local clock offset: -1.356 ms
Remote clock offset: -1.815 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 153.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 151.219 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.895 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link

[Graphs showing throughput and delay over time for different flows.]

Throughput (Mb/s)

Throughput (Mb/s)

0  5  10  15  20  25  30

Time (s)

Flow 1 ingress (mean 0.22 Mb/s)
Flow 1 egress (mean 0.22 Mb/s)
Flow 2 ingress (mean 0.22 Mb/s)
Flow 2 egress (mean 0.22 Mb/s)
Flow 3 ingress (mean 0.22 Mb/s)
Flow 3 egress (mean 0.22 Mb/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 152.82 ms)
Flow 2 (95th percentile 151.22 ms)
Flow 3 (95th percentile 153.90 ms)
Run 8: Statistics of SCReAM

End at: 2018-04-24 23:47:16
Local clock offset: 0.587 ms
Remote clock offset: -1.759 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 152.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.408 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.341 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.897 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

![Graph showing throughput and packet delay over time for different flows.]

- Flow 1 ingress (mean 0.22 Mbps)
- Flow 1 egress (mean 0.22 Mbps)
- Flow 2 ingress (mean 0.22 Mbps)
- Flow 2 egress (mean 0.22 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

![Graph showing packet delay per flow over time.]

- Flow 1 (95th percentile 152.41 ms)
- Flow 2 (95th percentile 152.34 ms)
- Flow 3 (95th percentile 152.90 ms)
Run 9: Statistics of SCReAM

Start at: 2018-04-25 00:09:31
End at: 2018-04-25 00:10:01
Local clock offset: -4.43 ms
Remote clock offset: -1.702 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 152.406 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 151.811 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 151.291 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 152.499 ms
  Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-04-25 00:32:15
End at: 2018-04-25 00:32:45
Local clock offset: -0.136 ms
Remote clock offset: -17.128 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 155.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 155.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 152.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 153.601 ms
Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 21:01:27
End at: 2018-04-24 21:01:57
Local clock offset: 3.91 ms
Remote clock offset: -0.458 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 158.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 159.023 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.344 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Local clock offset: 2.408 ms
Remote clock offset: -0.635 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 155.022 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 153.234 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 155.471 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 154.622 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Local clock offset: -3.437 ms
Remote clock offset: 3.53 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 157.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.899 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.838 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 158.841 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows]
Run 4: Statistics of WebRTC media

End at: 2018-04-24 22:11:06
Local clock offset: -3.457 ms
Remote clock offset: 4.833 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 155.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.229 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.033 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 155.486 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing WebRTC media report](image)

- **Flow 1 ingress (mean 0.06 Mbit/s)**
- **Flow 1 egress (mean 0.06 Mbit/s)**
- **Flow 2 ingress (mean 0.06 Mbit/s)**
- **Flow 2 egress (mean 0.06 Mbit/s)**
- **Flow 3 ingress (mean 0.05 Mbit/s)**
- **Flow 3 egress (mean 0.05 Mbit/s)**
Run 5: Statistics of WebRTC media

Local clock offset: 5.277 ms  
Remote clock offset: 5.768 ms

# Below is generated by plot.py at 2018-04-25 01:06:17  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 155.287 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 154.627 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 155.650 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 155.262 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

End at: 2018-04-24 22:57:08
Local clock offset: -0.977 ms
Remote clock offset: -2.687 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.656 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.639 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.888 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Local clock offset: -2.229 ms
Remote clock offset: -2.181 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 158.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 159.112 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 156.285 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 158.666 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Run 8: Report of WebRTC media — Data Link

Figure is missing

Figure is missing
Run 9: Statistics of WebRTC media

Start at: 2018-04-25 00:05:35
End at: 2018-04-25 00:06:05
Local clock offset: -3.801 ms
Remote clock offset: -1.664 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 153.404 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.452 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 154.919 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-04-25 00:28:19
End at: 2018-04-25 00:28:49
Local clock offset: -2.234 ms
Remote clock offset: -17.231 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 154.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 155.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 154.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 153.130 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link
Run 1: Statistics of Sprout

Start at: 2018-04-24 20:54:54
Local clock offset: 4.124 ms
Remote clock offset: -0.527 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 156.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 154.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 154.185 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 157.334 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

End at: 2018-04-24 21:18:34
Local clock offset: 2.566 ms
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 159.933 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 156.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 154.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 162.069 ms
Loss rate: 2.14%
Run 2: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 1.20 Mbps)  Flow 1 egress (mean 1.20 Mbps)
Flow 2 ingress (mean 1.26 Mbps)  Flow 2 egress (mean 1.26 Mbps)
Flow 3 ingress (mean 1.72 Mbps)  Flow 3 egress (mean 1.68 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 156.75 ms)  Flow 2 (95th percentile 154.60 ms)  Flow 3 (95th percentile 162.07 ms)
Run 3: Statistics of Sprout

Start at: 2018-04-24 21:41:02
Local clock offset: -1.78 ms
Remote clock offset: 2.803 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 156.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 155.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 156.500 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 155.516 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-04-24 22:04:03
End at: 2018-04-24 22:04:33
Local clock offset: -5.815 ms
Remote clock offset: 4.573 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 154.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.196 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 153.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 154.656 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Local clock offset: 3.985 ms
Remote clock offset: 5.421 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 155.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 155.904 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 155.298 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 156.369 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

End at: 2018-04-24 22:50:34
Local clock offset: 0.985 ms
Remote clock offset: -1.317 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 154.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 154.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 153.806 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 154.168 ms
Loss rate: 0.00%
Run 7: Statistics of Sprout

Start at: 2018-04-24 23:12:51
Local clock offset: -2.941 ms
Remote clock offset: -3.592 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 160.694 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 155.284 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 161.938 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 154.233 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-04-24 23:35:39
End at: 2018-04-24 23:36:09
Local clock offset: -0.131 ms
Remote clock offset: -1.83 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 161.665 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 159.880 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 162.361 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 154.075 ms
Loss rate: 2.03%
Run 8: Report of Sprout — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 1.63 Mbps)**
- **Flow 1 egress (mean 1.59 Mbps)**
- **Flow 2 ingress (mean 2.52 Mbps)**
- **Flow 2 egress (mean 2.45 Mbps)**
- **Flow 3 ingress (mean 0.68 Mbps)**
- **Flow 3 egress (mean 0.66 Mbps)**

**Per-packet one-way delay (ms)**

- **Flow 1 (95th percentile 159.98 ms)**
- **Flow 2 (95th percentile 162.36 ms)**
- **Flow 3 (95th percentile 154.07 ms)**

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Run 9: Statistics of Sprout

Start at: 2018-04-24 23:59:01
Local clock offset: -2.645 ms
Remote clock offset: -1.732 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 155.738 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 155.316 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 154.494 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 156.539 ms
Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.02 Mbit/s)
Flow 1 egress (mean 1.02 Mbit/s)
Flow 2 ingress (mean 1.18 Mbit/s)
Flow 2 egress (mean 1.18 Mbit/s)
Flow 3 ingress (mean 1.01 Mbit/s)
Flow 3 egress (mean 1.01 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 155.32 ms)
Flow 2 (95th percentile 154.49 ms)
Flow 3 (95th percentile 156.54 ms)
Run 10: Statistics of Sprout

Start at: 2018-04-25 00:21:46
End at: 2018-04-25 00:22:16
Local clock offset: -5.106 ms
Remote clock offset: -1.312 ms

# Below is generated by plot.py at 2018-04-25 01:06:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 155.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 153.801 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 155.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 155.949 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link

![Graph of Throughput and Delay]

- Throughput Graph:
  - Flow 1 ingress (mean 1.11 Mbit/s)
  - Flow 1 egress (mean 1.11 Mbit/s)
  - Flow 2 ingress (mean 1.28 Mbit/s)
  - Flow 2 egress (mean 1.28 Mbit/s)
  - Flow 3 ingress (mean 1.13 Mbit/s)
  - Flow 3 egress (mean 1.13 Mbit/s)

- Delay Graph:
  - Flow 1 (95th percentile 153.80 ms)
  - Flow 2 (95th percentile 155.25 ms)
  - Flow 3 (95th percentile 155.95 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 21:04:02
End at: 2018-04-24 21:04:32
Local clock offset: 3.452 ms
Remote clock offset: -0.474 ms

# Below is generated by plot.py at 2018-04-25 01:07:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 165.174 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 164.219 ms
Loss rate: 9.97%
-- Flow 2:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 165.274 ms
Loss rate: 4.54%
-- Flow 3:
Average throughput: 8.84 Mbit/s
95th percentile per-packet one-way delay: 167.244 ms
Loss rate: 8.29%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Local clock offset: 2.543 ms
Remote clock offset: -0.691 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 164.273 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 40.22 Mbit/s
95th percentile per-packet one-way delay: 163.678 ms
Loss rate: 5.23%
-- Flow 2:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 165.824 ms
Loss rate: 10.13%
-- Flow 3:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 163.300 ms
Loss rate: 6.82%
Run 2: Report of TaoVA-100x — Data Link

![Graph showing network performance metrics over time.](image-url)

**Throughput (Mbps):**
- Flow 1 ingress (mean 42.44 Mbps)
- Flow 1 egress (mean 40.22 Mbps)
- Flow 2 ingress (mean 16.41 Mbps)
- Flow 2 egress (mean 14.74 Mbps)
- Flow 3 ingress (mean 14.44 Mbps)
- Flow 3 egress (mean 13.46 Mbps)

**Delay (ms):**
- Flow 1 (95th percentile 163.68 ms)
- Flow 2 (95th percentile 165.82 ms)
- Flow 3 (95th percentile 161.30 ms)
Run 3: Statistics of TaoVA-100x

Local clock offset: -4.055 ms
Remote clock offset: 3.687 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 36.21 Mbit/s
  95th percentile per-packet one-way delay: 164.200 ms
  Loss rate: 8.70%
-- Flow 1:
  Average throughput: 18.30 Mbit/s
  95th percentile per-packet one-way delay: 162.280 ms
  Loss rate: 9.00%
-- Flow 2:
  Average throughput: 19.35 Mbit/s
  95th percentile per-packet one-way delay: 166.266 ms
  Loss rate: 8.36%
-- Flow 3:
  Average throughput: 15.27 Mbit/s
  95th percentile per-packet one-way delay: 161.263 ms
  Loss rate: 8.49%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Local clock offset: -1.584 ms
Remote clock offset: -4.822 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.99 Mbit/s
95th percentile per-packet one-way delay: 156.412 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 154.776 ms
Loss rate: 7.42%
-- Flow 2:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 155.923 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 47.10 Mbit/s
95th percentile per-packet one-way delay: 157.504 ms
Loss rate: 3.75%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 22:36:00
End at: 2018-04-24 22:36:30
Local clock offset: 6.025 ms
Remote clock offset: 5.817 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.90 Mbit/s
95th percentile per-packet one-way delay: 164.539 ms
Loss rate: 4.84%
-- Flow 1:
Average throughput: 34.67 Mbit/s
95th percentile per-packet one-way delay: 163.396 ms
Loss rate: 3.29%
-- Flow 2:
Average throughput: 10.25 Mbit/s
95th percentile per-packet one-way delay: 170.806 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 19.48 Mbit/s
95th percentile per-packet one-way delay: 162.548 ms
Loss rate: 11.19%
Run 5: Report of TaoVA-100x — Data Link

[Diagram showing throughput and per-packet round-trip delay over time for different flows.]
Run 6: Statistics of TaoVA-100x

Local clock offset: -1.487 ms
Remote clock offset: -3.105 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
   -- Total of 3 flows:
      Average throughput: 40.17 Mbit/s
      95th percentile per-packet one-way delay: 162.192 ms
      Loss rate: 8.47%
   -- Flow 1:
      Average throughput: 30.60 Mbit/s
      95th percentile per-packet one-way delay: 162.345 ms
      Loss rate: 8.48%
   -- Flow 2:
      Average throughput: 9.94 Mbit/s
      95th percentile per-packet one-way delay: 161.777 ms
      Loss rate: 9.20%
   -- Flow 3:
      Average throughput: 9.04 Mbit/s
      95th percentile per-packet one-way delay: 162.381 ms
      Loss rate: 6.81%
Run 6: Report of TaoVA-100x — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 33.44 Mbps)
- Flow 2 ingress (mean 10.94 Mbps)
- Flow 3 ingress (mean 9.69 Mbps)
- Flow 1 egress (mean 30.60 Mbps)
- Flow 2 egress (mean 9.94 Mbps)
- Flow 3 egress (mean 9.04 Mbps)

Graph 2: Per-frame packet delay (ms)
- Flow 1 (95th percentile 162.34 ms)
- Flow 2 (95th percentile 161.78 ms)
- Flow 3 (95th percentile 162.38 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 23:22:00
Local clock offset: -1.618 ms
Remote clock offset: -1.885 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 163.375 ms
Loss rate: 8.14%
-- Flow 1:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 162.844 ms
Loss rate: 7.54%
-- Flow 2:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 164.012 ms
Loss rate: 8.62%
-- Flow 3:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 165.580 ms
Loss rate: 12.12%
Run 7: Report of TaoVA-100x — Data Link

![Graph 1: Throughput (Mbps)](image1)

- Flow 1 ingress (mean 32.79 Mbps)
- Flow 1 egress (mean 30.32 Mbps)
- Flow 2 ingress (mean 13.68 Mbps)
- Flow 2 egress (mean 12.50 Mbps)
- Flow 3 ingress (mean 11.89 Mbps)
- Flow 3 egress (mean 13.18 Mbps)

![Graph 2: Per-packet one-way delay (ms)](image2)

- Flow 1 (95th percentile 162.84 ms)
- Flow 2 (95th percentile 164.01 ms)
- Flow 3 (95th percentile 165.58 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 23:45:25
End at: 2018-04-24 23:45:55
Local clock offset: 0.517 ms
Remote clock offset: -1.785 ms

# Below is generated by plot.py at 2018-04-25 01:07:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 163.861 ms
Loss rate: 8.71%
-- Flow 1:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 164.240 ms
Loss rate: 9.90%
-- Flow 2:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 163.418 ms
Loss rate: 6.93%
-- Flow 3:
Average throughput: 18.61 Mbit/s
95th percentile per-packet one-way delay: 163.161 ms
Loss rate: 12.20%
Run 8: Report of TaoVA-100x — Data Link

![Graph showing network throughput and packet latency trends over time for different data flows.](image-url)
Run 9: Statistics of TaoVA-100x

Start at: 2018-04-25 00:08:09
End at: 2018-04-25 00:08:39
Local clock offset: -4.111 ms
Remote clock offset: -1.738 ms

# Below is generated by plot.py at 2018-04-25 01:08:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.31 Mbit/s
  95th percentile per-packet one-way delay: 164.418 ms
  Loss rate: 6.53%
-- Flow 1:
  Average throughput: 34.25 Mbit/s
  95th percentile per-packet one-way delay: 164.795 ms
  Loss rate: 5.60%
-- Flow 2:
  Average throughput: 7.75 Mbit/s
  95th percentile per-packet one-way delay: 163.516 ms
  Loss rate: 7.62%
-- Flow 3:
  Average throughput: 27.20 Mbit/s
  95th percentile per-packet one-way delay: 162.929 ms
  Loss rate: 9.32%
Run 9: Report of TaoVA-100x — Data Link

**Throughput (Mbit/s)**

- **Flow 1 Ingress** (mean 36.30 Mbit/s)
- **Flow 1 Egress** (mean 34.25 Mbit/s)
- **Flow 2 Ingress** (mean 8.39 Mbit/s)
- **Flow 2 Egress** (mean 7.75 Mbit/s)
- **Flow 3 Ingress** (mean 30.00 Mbit/s)
- **Flow 3 Egress** (mean 27.20 Mbit/s)

**Per-packet one-way delay (ms)**

- **Flow 1** (95th percentile 164.79 ms)
- **Flow 2** (95th percentile 163.52 ms)
- **Flow 3** (95th percentile 162.93 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-25 00:30:54
End at: 2018-04-25 00:31:24
Local clock offset: -0.669 ms
Remote clock offset: -17.122 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.59 Mbit/s
95th percentile per-packet one-way delay: 164.771 ms
Loss rate: 8.79%
-- Flow 1:
Average throughput: 15.69 Mbit/s
95th percentile per-packet one-way delay: 163.369 ms
Loss rate: 8.94%
-- Flow 2:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 164.837 ms
Loss rate: 7.73%
-- Flow 3:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 167.829 ms
Loss rate: 14.23%
Run 10: Report of TaoVA-100x — Data Link

![Graph 1: Throughput vs. Time](image1)

![Graph 2: Per-packet one-way delay vs. Time](image2)

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Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 21:00:09
End at: 2018-04-24 21:00:39
Local clock offset: 4.13 ms
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.50 Mbit/s
  95th percentile per-packet one-way delay: 158.165 ms
  Loss rate: 0.76%
-- Flow 1:
  Average throughput: 7.28 Mbit/s
  95th percentile per-packet one-way delay: 158.914 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 7.47 Mbit/s
  95th percentile per-packet one-way delay: 155.667 ms
  Loss rate: 0.27%
-- Flow 3:
  Average throughput: 3.77 Mbit/s
  95th percentile per-packet one-way delay: 156.567 ms
  Loss rate: 4.12%
Run 1: Report of TCP Vegas — Data Link

![Graph of Throughput (Mbps/s) over Time (s)](image1)

- **Flow 1 ingress** (mean 7.31 Mbps/s)
- **Flow 1 egress** (mean 7.28 Mbps/s)
- **Flow 2 ingress** (mean 7.49 Mbps/s)
- **Flow 2 egress** (mean 7.47 Mbps/s)
- **Flow 3 ingress** (mean 3.93 Mbps/s)
- **Flow 3 egress** (mean 3.77 Mbps/s)

![Graph of Per packet one way delay (ms) over Time (s)](image2)

- **Flow 1 (95th percentile 158.91 ms)**
- **Flow 2 (95th percentile 155.67 ms)**
- **Flow 3 (95th percentile 156.57 ms)**
Run 2: Statistics of TCP Vegas

Local clock offset: 2.376 ms
Remote clock offset: -0.628 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 156.318 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 155.757 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 156.673 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 157.848 ms
Loss rate: 1.44%
Run 2: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time for different flows.]

- Flow 1 ingress (mean 8.82 Mbit/s)
- Flow 1 egress (mean 8.80 Mbit/s)
- Flow 2 ingress (mean 6.51 Mbit/s)
- Flow 2 egress (mean 6.43 Mbit/s)
- Flow 3 ingress (mean 8.30 Mbit/s)
- Flow 3 egress (mean 8.18 Mbit/s)

![Graph showing packet delay over time for different flows.]

- Flow 1 (95th percentile 155.76 ms)
- Flow 2 (95th percentile 156.67 ms)
- Flow 3 (95th percentile 157.85 ms)
Run 3: Statistics of TCP Vegas

Local clock offset: -3.067 ms
Remote clock offset: 3.403 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 157.019 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 154.795 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 158.628 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 155.548 ms
Loss rate: 1.17%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Local clock offset: -4.69 ms  
Remote clock offset: 4.771 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 20.52 Mbit/s
  95th percentile per-packet one-way delay: 155.545 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 12.01 Mbit/s
  95th percentile per-packet one-way delay: 155.207 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 10.34 Mbit/s
  95th percentile per-packet one-way delay: 155.456 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 4.92 Mbit/s
  95th percentile per-packet one-way delay: 158.046 ms
  Loss rate: 3.19%
Run 4: Report of TCP Vegas — Data Link

![Graph of network throughput and packet delay over time]

Legend:
- Flow 1 ingress (mean 12.04 Mb/s)
- Flow 1 egress (mean 12.01 Mb/s)
- Flow 2 ingress (mean 10.39 Mb/s)
- Flow 2 egress (mean 10.34 Mb/s)
- Flow 3 ingress (mean 5.08 Mb/s)
- Flow 3 egress (mean 4.92 Mb/s)

![Graph of packet delay over time for different flows]

Legend:
- Flow 1 (95th percentile 155.21 ms)
- Flow 2 (95th percentile 155.46 ms)
- Flow 3 (95th percentile 158.05 ms)
Run 5: Statistics of TCP Vegas

Local clock offset: 5.313 ms
Remote clock offset: 5.739 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.58 Mbit/s
95th percentile per-packet one-way delay: 154.078 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 153.850 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 156.306 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 156.708 ms
Loss rate: 2.37%
Run 6: Statistics of TCP Vegas

Local clock offset: -0.858 ms
Remote clock offset: -2.496 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.36 Mbit/s
  95th percentile per-packet one-way delay: 157.896 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 8.78 Mbit/s
  95th percentile per-packet one-way delay: 153.764 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 6.45 Mbit/s
  95th percentile per-packet one-way delay: 156.438 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 6.93 Mbit/s
  95th percentile per-packet one-way delay: 160.857 ms
  Loss rate: 1.63%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

End at: 2018-04-24 23:18:37
Local clock offset: -2.425 ms
Remote clock offset: -2.399 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 19.64 Mbit/s
  95th percentile per-packet one-way delay: 157.817 ms
  Loss rate: 0.36%
-- Flow 1:
  Average throughput: 12.03 Mbit/s
  95th percentile per-packet one-way delay: 155.081 ms
  Loss rate: 0.24%
-- Flow 2:
  Average throughput: 7.41 Mbit/s
  95th percentile per-packet one-way delay: 155.996 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 8.10 Mbit/s
  95th percentile per-packet one-way delay: 159.530 ms
  Loss rate: 1.12%
Run 7: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time for different flows, with markers indicating 95th percentile delays.]

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Run 8: Statistics of TCP Vegas

Local clock offset: 0.25 ms
Remote clock offset: -1.65 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.50 Mbit/s
  95th percentile per-packet one-way delay: 156.216 ms
  Loss rate: 1.14%
-- Flow 1:
  Average throughput: 6.16 Mbit/s
  95th percentile per-packet one-way delay: 154.759 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 5.13 Mbit/s
  95th percentile per-packet one-way delay: 157.487 ms
  Loss rate: 1.64%
-- Flow 3:
  Average throughput: 5.82 Mbit/s
  95th percentile per-packet one-way delay: 156.523 ms
  Loss rate: 1.72%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

Start at: 2018-04-25 00:04:17
End at: 2018-04-25 00:04:47
Local clock offset: -3.622 ms
Remote clock offset: -1.789 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.80 Mbit/s
  95th percentile per-packet one-way delay: 155.914 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 6.15 Mbit/s
  95th percentile per-packet one-way delay: 156.105 ms
  Loss rate: 0.55%
-- Flow 2:
  Average throughput: 10.33 Mbit/s
  95th percentile per-packet one-way delay: 153.471 ms
  Loss rate: 0.44%
-- Flow 3:
  Average throughput: 8.40 Mbit/s
  95th percentile per-packet one-way delay: 158.188 ms
  Loss rate: 1.09%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-04-25 00:27:02
End at: 2018-04-25 00:27:32
Local clock offset: -3.263 ms
Remote clock offset: -17.36 ms

# Below is generated by plot.py at 2018-04-25 01:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 159.239 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 159.824 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 10.12 Mbit/s
95th percentile per-packet one-way delay: 157.935 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 156.629 ms
Loss rate: 1.12%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-04-24 20:50:32
End at: 2018-04-24 20:51:02
Local clock offset: 3.898 ms
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2018-04-25 01:08:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 208.600 ms
Loss rate: 64.47%
-- Flow 1:
Average throughput: 18.12 Mbit/s
95th percentile per-packet one-way delay: 213.249 ms
Loss rate: 66.43%
-- Flow 2:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 205.112 ms
Loss rate: 65.14%
-- Flow 3:
Average throughput: 8.88 Mbit/s
95th percentile per-packet one-way delay: 159.566 ms
Loss rate: 37.95%
Run 2: Statistics of Verus

End at: 2018-04-24 21:14:12
Local clock offset: 2.71 ms
Remote clock offset: -0.532 ms

# Below is generated by plot.py at 2018-04-25 01:09:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 191.898 ms
Loss rate: 80.48%
-- Flow 1:
Average throughput: 14.75 Mbit/s
95th percentile per-packet one-way delay: 210.633 ms
Loss rate: 70.21%
-- Flow 2:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 181.833 ms
Loss rate: 85.78%
-- Flow 3:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 176.754 ms
Loss rate: 73.15%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-04-24 21:36:45
End at: 2018-04-24 21:37:15
Local clock offset: 0.406 ms
Remote clock offset: 2.108 ms

# Below is generated by plot.py at 2018-04-25 01:09:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 35.26 Mbit/s
95th percentile per-packet one-way delay: 231.790 ms
Loss rate: 85.29%
-- Flow 1:
Average throughput: 25.72 Mbit/s
95th percentile per-packet one-way delay: 225.183 ms
Loss rate: 84.95%
-- Flow 2:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 227.324 ms
Loss rate: 74.86%
-- Flow 3:
Average throughput: 31.04 Mbit/s
95th percentile per-packet one-way delay: 240.503 ms
Loss rate: 88.18%
Run 3: Report of Verus — Data Link

[Graph showing throughput and delay over time for different flows]

Throughput (Mbps):
- Flow 1 ingress (mean 147.22 Mbps)
- Flow 1 egress (mean 25.72 Mbps)
- Flow 2 ingress (mean 25.23 Mbps)
- Flow 2 egress (mean 6.33 Mbps)
- Flow 3 ingress (mean 237.07 Mbps)
- Flow 3 egress (mean 31.04 Mbps)

Delay (ms):
- Flow 1 (95th percentile 225.18 ms)
- Flow 2 (95th percentile 227.32 ms)
- Flow 3 (95th percentile 240.50 ms)
Run 4: Statistics of Verus

End at: 2018-04-24 22:00:23
Local clock offset: -5.422 ms
Remote clock offset: 4.304 ms

# Below is generated by plot.py at 2018-04-25 01:09:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.71 Mbit/s
95th percentile per-packet one-way delay: 206.046 ms
Loss rate: 81.04%
-- Flow 1:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 206.232 ms
Loss rate: 83.70%
-- Flow 2:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 211.139 ms
Loss rate: 69.00%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 157.402 ms
Loss rate: 14.36%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Local clock offset: 2.908 ms
Remote clock offset: 5.265 ms

# Below is generated by plot.py at 2018-04-25 01:09:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 213.672 ms
Loss rate: 87.18%
-- Flow 1:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 214.157 ms
Loss rate: 87.65%
-- Flow 2:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 158.826 ms
Loss rate: 14.35%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 152.765 ms
Loss rate: 72.22%
Run 5: Report of Verus — Data Link

![Graph showing network throughput over time](image1)

![Graph showing per-packet one-way delay over time](image2)
Run 6: Statistics of Verus

Start at: 2018-04-24 22:45:38
Local clock offset: 3.709 ms
Remote clock offset: 0.035 ms
Run 6: Report of Verus — Data Link

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Run 7: Statistics of Verus

Start at: 2018-04-24 23:08:41
End at: 2018-04-24 23:09:11
Local clock offset: -2.648 ms
Remote clock offset: -4.541 ms

# Below is generated by plot.py at 2018-04-25 01:09:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.61 Mbit/s
95th percentile per-packet one-way delay: 222.228 ms
Loss rate: 81.67%
-- Flow 1:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 219.394 ms
Loss rate: 83.46%
-- Flow 2:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 164.272 ms
Loss rate: 37.18%
-- Flow 3:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 239.041 ms
Loss rate: 84.33%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Local clock offset: -0.427 ms  
Remote clock offset: -1.498 ms  

# Below is generated by plot.py at 2018-04-25 01:10:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 36.18 Mbit/s  
95th percentile per-packet one-way delay: 200.504 ms  
Loss rate: 86.57%  
-- Flow 1:  
Average throughput: 34.10 Mbit/s  
95th percentile per-packet one-way delay: 200.822 ms  
Loss rate: 87.19%  
-- Flow 2:  
Average throughput: 3.14 Mbit/s  
95th percentile per-packet one-way delay: 159.724 ms  
Loss rate: 38.57%  
-- Flow 3:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 154.926 ms  
Loss rate: 69.57%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-04-24 23:54:54
Local clock offset: -1.512 ms
Remote clock offset: -1.7 ms

# Below is generated by plot.py at 2018-04-25 01:10:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 180.342 ms
Loss rate: 70.90%
-- Flow 1:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 186.683 ms
Loss rate: 76.46%
-- Flow 2:
Average throughput: 12.74 Mbit/s
95th percentile per-packet one-way delay: 159.696 ms
Loss rate: 52.81%
-- Flow 3:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 157.846 ms
Loss rate: 39.39%
Run 9: Report of Verus — Data Link

![Graphs showing throughput and delay over time for different flows.](image_url)
Run 10: Statistics of Verus

Start at: 2018-04-25 00:17:40  
End at: 2018-04-25 00:18:10  
Local clock offset: -4.834 ms  
Remote clock offset: -1.731 ms

# Below is generated by plot.py at 2018-04-25 01:10:00  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 27.89 Mbit/s  
  95th percentile per-packet one-way delay: 163.545 ms  
  Loss rate: 34.22%  
-- Flow 1:  
  Average throughput: 14.92 Mbit/s  
  95th percentile per-packet one-way delay: 158.247 ms  
  Loss rate: 20.57%  
-- Flow 2:  
  Average throughput: 15.21 Mbit/s  
  95th percentile per-packet one-way delay: 164.356 ms  
  Loss rate: 48.22%  
-- Flow 3:  
  Average throughput: 8.95 Mbit/s  
  95th percentile per-packet one-way delay: 168.009 ms  
  Loss rate: 30.14%
Run 10: Report of Verus — Data Link
Run 1: Statistics of Copa

Start at: 2018-04-24 20:53:15  
End at: 2018-04-24 20:53:45  
Local clock offset: 4.045 ms  
Remote clock offset: -0.521 ms

# Below is generated by plot.py at 2018-04-25 01:15:32  
# Datalink statistics
-- Total of 3 flows: 
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 281.740 ms
Loss rate: 88.22%
-- Flow 1: 
Average throughput: 49.61 Mbit/s
95th percentile per-packet one-way delay: 274.171 ms
Loss rate: 84.17%
-- Flow 2: 
Average throughput: 39.94 Mbit/s
95th percentile per-packet one-way delay: 281.960 ms
Loss rate: 92.02%
-- Flow 3: 
Average throughput: 0.00 Mbit/s
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Local clock offset: 2.551 ms
Remote clock offset: -0.584 ms

# Below is generated by plot.py at 2018-04-25 01:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 172.485 ms
Loss rate: 87.40%
-- Flow 1:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 172.485 ms
Loss rate: 87.40%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 169.275 ms
Loss rate: 80.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s

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Run 2: Report of Copa — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 3: Statistics of Copa

End at: 2018-04-24 21:40:09
Local clock offset: -0.79 ms
Remote clock offset: 2.627 ms

# Below is generated by plot.py at 2018-04-25 01:16:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 56.85 Mbit/s
  95th percentile per-packet one-way delay: 165.647 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 31.28 Mbit/s
  95th percentile per-packet one-way delay: 168.211 ms
  Loss rate: 0.24%
-- Flow 2:
  Average throughput: 32.62 Mbit/s
  95th percentile per-packet one-way delay: 161.587 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 11.57 Mbit/s
  95th percentile per-packet one-way delay: 160.544 ms
  Loss rate: 0.11%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-04-24 22:02:39
End at: 2018-04-24 22:03:09
Local clock offset: -5.55 ms
Remote clock offset: 4.447 ms

# Below is generated by plot.py at 2018-04-25 01:16:02
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 72.56 Mbit/s
   95th percentile per-packet one-way delay: 161.634 ms
   Loss rate: 0.20%
-- Flow 1:
   Average throughput: 49.39 Mbit/s
   95th percentile per-packet one-way delay: 162.111 ms
   Loss rate: 0.20%
-- Flow 2:
   Average throughput: 27.82 Mbit/s
   95th percentile per-packet one-way delay: 160.575 ms
   Loss rate: 0.20%
-- Flow 3:
   Average throughput: 14.04 Mbit/s
   95th percentile per-packet one-way delay: 160.855 ms
   Loss rate: 0.20%
Run 4: Report of Copa — Data Link

![Graph 1: Throughput vs Time](image1)

![Graph 2: End-to-End Delay vs Time](image2)
Run 5: Statistics of Copa

Local clock offset: 3.707 ms
Remote clock offset: 5.412 ms

# Below is generated by plot.py at 2018-04-25 01:16:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.84 Mbit/s
95th percentile per-packet one-way delay: 166.631 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 42.58 Mbit/s
95th percentile per-packet one-way delay: 165.796 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 168.837 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 159.201 ms
Loss rate: 0.37%
Run 5: Report of Copa — Data Link

![Graph showing throughput and packet round trip time](image)

Legend:
- Flow 1 ingress (mean 42.67 Mbps)
- Flow 1 egress (mean 42.58 Mbps)
- Flow 2 ingress (mean 30.85 Mbps)
- Flow 2 egress (mean 30.75 Mbps)
- Flow 3 ingress (mean 17.41 Mbps)
- Flow 3 egress (mean 17.35 Mbps)

![Graph showing packet round trip time](image)

Legend:
- Flow 1 (95th percentile 165.80 ms)
- Flow 2 (95th percentile 168.84 ms)
- Flow 3 (95th percentile 159.20 ms)
Run 6: Statistics of Copa

Local clock offset: 1.76 ms
Remote clock offset: -0.789 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 180.104 ms
Loss rate: 87.98%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 180.104 ms
Loss rate: 87.98%
-- Flow 2:
Average throughput: 0.00 Mbit/s
-- Flow 3:
Average throughput: 0.00 Mbit/s
Run 6: Report of Copa — Data Link

![Graph showing data link throughput and packet delay over time.]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 764.56 Mbps)
  - Flow 1 egress (mean 91.85 Mbps)
  - Flow 2 ingress (mean 0.00 Mbps)
  - Flow 2 egress (mean 0.00 Mbps)
  - Flow 3 ingress (mean 0.00 Mbps)
  - Flow 3 egress (mean 0.00 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 180.10 ms)
Run 7: Statistics of Copa

Local clock offset: -3.031 ms
Remote clock offset: -4.136 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.10 Mbit/s
95th percentile per-packet one-way delay: 164.704 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 45.99 Mbit/s
95th percentile per-packet one-way delay: 163.146 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 164.953 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 14.34 Mbit/s
95th percentile per-packet one-way delay: 170.239 ms
Loss rate: 0.43%
Run 7: Report of Copa — Data Link

![Graph 1: Throughput vs Time](#)

- **Flow 1 Ingress** (mean 46.04 Mbit/s)
- **Flow 1 Egress** (mean 45.99 Mbit/s)
- **Flow 2 Ingress** (mean 26.13 Mbit/s)
- **Flow 2 Egress** (mean 26.06 Mbit/s)
- **Flow 3 Ingress** (mean 14.40 Mbit/s)
- **Flow 3 Egress** (mean 14.34 Mbit/s)

![Graph 2: Packet One-Way Delay vs Time](#)

- **Flow 1** (95th percentile 163.15 ms)
- **Flow 2** (95th percentile 164.95 ms)
- **Flow 3** (95th percentile 170.24 ms)

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Run 8: Statistics of Copa

Start at: 2018-04-24 23:34:16
End at: 2018-04-24 23:34:46
Local clock offset: -0.376 ms
Remote clock offset: -1.811 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.14 Mbit/s
95th percentile per-packet one-way delay: 162.248 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 42.77 Mbit/s
95th percentile per-packet one-way delay: 163.505 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 158.806 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 21.35 Mbit/s
95th percentile per-packet one-way delay: 159.090 ms
Loss rate: 0.18%
Run 8: Report of Copa — Data Link

![Graph 1: Throughput vs Time](image)

- Flow 1 Ingress (mean 42.83 Mbit/s)
- Flow 1 Egress (mean 42.77 Mbit/s)
- Flow 2 Ingress (mean 21.48 Mbit/s)
- Flow 2 Egress (mean 21.44 Mbit/s)
- Flow 3 Ingress (mean 21.39 Mbit/s)
- Flow 3 Egress (mean 21.35 Mbit/s)

![Graph 2: Per-packet one-way delay vs Time](image)

- Flow 1 (95th percentile 163.50 ms)
- Flow 2 (95th percentile 158.81 ms)
- Flow 3 (95th percentile 159.09 ms)
Run 9: Statistics of Copa

End at: 2018-04-24 23:58:07
Local clock offset: -2.361 ms
Remote clock offset: -1.758 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.01 Mbit/s
95th percentile per-packet one-way delay: 158.680 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 157.567 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 19.06 Mbit/s
95th percentile per-packet one-way delay: 160.108 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 17.61 Mbit/s
95th percentile per-packet one-way delay: 165.179 ms
Loss rate: 0.28%
Run 9: Report of Copa — Data Link

![Graph showing throughput and per-packet one-way delay over time.](image)

- **Throughput (Mbps):**
  - Flow 1 Ingress (mean 49.52 Mbps)
  - Flow 1 Egress (mean 49.46 Mbps)
  - Flow 2 Ingress (mean 19.11 Mbps)
  - Flow 2 Egress (mean 19.06 Mbps)
  - Flow 3 Ingress (mean 17.69 Mbps)
  - Flow 3 Egress (mean 17.61 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 157.57 ms)
  - Flow 2 (95th percentile 160.31 ms)
  - Flow 3 (95th percentile 165.18 ms)
Run 10: Statistics of Copa

Start at: 2018-04-25 00:20:21
End at: 2018-04-25 00:20:51
Local clock offset: -5.036 ms
Remote clock offset: -1.505 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 73.54 Mbit/s
  95th percentile per-packet one-way delay: 162.075 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 51.29 Mbit/s
  95th percentile per-packet one-way delay: 162.533 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 27.53 Mbit/s
  95th percentile per-packet one-way delay: 160.423 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 11.78 Mbit/s
  95th percentile per-packet one-way delay: 161.669 ms
  Loss rate: 0.03%
Run 10: Report of Copa — Data Link
Run 1: Statistics of FillP

End at: 2018-04-24 20:59:18
Local clock offset: 4.308 ms
Remote clock offset: -0.488 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.87 Mbit/s
95th percentile per-packet one-way delay: 169.218 ms
Loss rate: 16.87%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 165.545 ms
Loss rate: 11.97%
-- Flow 2:
Average throughput: 28.23 Mbit/s
95th percentile per-packet one-way delay: 168.378 ms
Loss rate: 20.22%
-- Flow 3:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 177.692 ms
Loss rate: 29.10%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Local clock offset: 2.462 ms
Remote clock offset: -0.561 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.85 Mbit/s
  95th percentile per-packet one-way delay: 164.300 ms
  Loss rate: 16.47%
-- Flow 1:
  Average throughput: 61.29 Mbit/s
  95th percentile per-packet one-way delay: 161.843 ms
  Loss rate: 12.85%
-- Flow 2:
  Average throughput: 26.63 Mbit/s
  95th percentile per-packet one-way delay: 167.290 ms
  Loss rate: 20.99%
-- Flow 3:
  Average throughput: 26.69 Mbit/s
  95th percentile per-packet one-way delay: 170.449 ms
  Loss rate: 28.79%
Run 2: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 70.33 Mbit/s)  Flow 1 egress (mean 61.29 Mbit/s)
Flow 2 ingress (mean 33.71 Mbit/s)  Flow 2 egress (mean 26.65 Mbit/s)
Flow 3 ingress (mean 37.47 Mbit/s)  Flow 3 egress (mean 26.69 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 161.94 ms)  Flow 2 (95th percentile 167.29 ms)  Flow 3 (95th percentile 170.45 ms)
Run 3: Statistics of FillP

End at: 2018-04-24 21:45:26
Local clock offset: -2.727 ms
Remote clock offset: 3.247 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.28 Mbit/s
95th percentile per-packet one-way delay: 172.680 ms
Loss rate: 24.25%
-- Flow 1:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 171.822 ms
Loss rate: 23.02%
-- Flow 2:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 173.156 ms
Loss rate: 29.38%
-- Flow 3:
Average throughput: 62.06 Mbit/s
95th percentile per-packet one-way delay: 173.132 ms
Loss rate: 18.61%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

End at: 2018-04-24 22:08:27
Local clock offset: -6.295 ms
Remote clock offset: 4.738 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.98 Mbit/s
95th percentile per-packet one-way delay: 167.970 ms
Loss rate: 15.16%
-- Flow 1:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 169.090 ms
Loss rate: 18.27%
-- Flow 2:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 168.012 ms
Loss rate: 12.04%
-- Flow 3:
Average throughput: 27.40 Mbit/s
95th percentile per-packet one-way delay: 165.364 ms
Loss rate: 16.80%
Run 4: Report of FillP — Data Link

[Graph showing throughput and delay over time for different flows]
Run 5: Statistics of FillP

Start at: 2018-04-24 22:30:46
Local clock offset: 5.035 ms
Remote clock offset: 5.602 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 178.235 ms
Loss rate: 28.16%
-- Flow 1:
Average throughput: 34.24 Mbit/s
95th percentile per-packet one-way delay: 179.425 ms
Loss rate: 24.31%
-- Flow 2:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 178.251 ms
Loss rate: 38.78%
-- Flow 3:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 173.294 ms
Loss rate: 21.12%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Local clock offset: -0.498 ms
Remote clock offset: -2.177 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 172.905 ms
Loss rate: 26.76%
-- Flow 1:
Average throughput: 33.23 Mbit/s
95th percentile per-packet one-way delay: 172.913 ms
Loss rate: 20.20%
-- Flow 2:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 172.562 ms
Loss rate: 32.16%
-- Flow 3:
Average throughput: 44.42 Mbit/s
95th percentile per-packet one-way delay: 173.463 ms
Loss rate: 28.17%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Start at: 2018-04-24 23:16:45
End at: 2018-04-24 23:17:15
Local clock offset: -2.931 ms
Remote clock offset: -2.615 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.93 Mbit/s
95th percentile per-packet one-way delay: 172.130 ms
Loss rate: 17.81%
-- Flow 1:
Average throughput: 54.55 Mbit/s
95th percentile per-packet one-way delay: 170.584 ms
Loss rate: 12.89%
-- Flow 2:
Average throughput: 29.58 Mbit/s
95th percentile per-packet one-way delay: 173.359 ms
Loss rate: 26.58%
-- Flow 3:
Average throughput: 38.28 Mbit/s
95th percentile per-packet one-way delay: 173.177 ms
Loss rate: 22.29%
Run 7: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]

Flow 1 ingress (mean 62.63 Mbps)
Flow 1 egress (mean 54.55 Mbps)
Flow 2 ingress (mean 40.29 Mbps)
Flow 2 egress (mean 29.55 Mbps)
Flow 3 ingress (mean 49.24 Mbps)
Flow 3 egress (mean 38.28 Mbps)

Flow 1 (95th percentile 170.58 ms)
Flow 2 (95th percentile 173.36 ms)
Flow 3 (95th percentile 173.18 ms)
Run 8: Statistics of FillP

End at: 2018-04-24 23:40:03
Local clock offset: 0.084 ms
Remote clock offset: -1.758 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.01 Mbit/s
  95th percentile per-packet one-way delay: 171.935 ms
  Loss rate: 21.26%
  -- Flow 1:
  Average throughput: 32.88 Mbit/s
  95th percentile per-packet one-way delay: 173.104 ms
  Loss rate: 24.86%
  -- Flow 2:
  Average throughput: 49.99 Mbit/s
  95th percentile per-packet one-way delay: 171.356 ms
  Loss rate: 21.00%
  -- Flow 3:
  Average throughput: 42.56 Mbit/s
  95th percentile per-packet one-way delay: 164.625 ms
  Loss rate: 11.96%
Run 8: Report of FillP — Data Link

![Graphs showing network traffic and delay over time for different flows.]

- Flow 1 ingress (mean 43.77 Mbit/s)
- Flow 1 egress (mean 32.88 Mbit/s)
- Flow 2 ingress (mean 65.28 Mbit/s)
- Flow 2 egress (mean 49.99 Mbit/s)
- Flow 3 ingress (mean 47.61 Mbit/s)
- Flow 3 egress (mean 42.56 Mbit/s)

![Graphs showing per-packet delay over time for different flows.]

- Flow 1 (95th percentile 173.10 ms)
- Flow 2 (95th percentile 171.36 ms)
- Flow 3 (95th percentile 164.62 ms)
Run 9: Statistics of FillP

Start at: 2018-04-25 00:02:55
End at: 2018-04-25 00:03:25
Local clock offset: -3.403 ms
Remote clock offset: -1.729 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.69 Mbit/s
95th percentile per-packet one-way delay: 173.650 ms
Loss rate: 24.98%
-- Flow 1:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 168.969 ms
Loss rate: 20.16%
-- Flow 2:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 174.835 ms
Loss rate: 32.28%
-- Flow 3:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 172.168 ms
Loss rate: 19.13%
Run 9: Report of FillP — Data Link

![Graphs showing throughput and packet delay over time for different flows.](image1.png)

### Throughput (Mbps) Over Time

- Flow 1 ingress (mean 41.29 Mbps)
- Flow 1 egress (mean 32.97 Mbps)
- Flow 2 ingress (mean 67.84 Mbps)
- Flow 2 egress (mean 45.94 Mbps)
- Flow 3 ingress (mean 67.59 Mbps)
- Flow 3 egress (mean 54.67 Mbps)

### Per-Packet One Way Delay (ms)

- Flow 1 (95th percentile 168.97 ms)
- Flow 2 (95th percentile 174.84 ms)
- Flow 3 (95th percentile 172.17 ms)
Run 10: Statistics of FillP

Start at: 2018-04-25 00:25:40
End at: 2018-04-25 00:26:10
Local clock offset: -4.095 ms
Remote clock offset: -17.449 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.65 Mbit/s
95th percentile per-packet one-way delay: 176.910 ms
Loss rate: 25.41%
-- Flow 1:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 164.047 ms
Loss rate: 15.47%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 177.929 ms
Loss rate: 27.77%
-- Flow 3:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 178.165 ms
Loss rate: 36.96%
Run 10: Report of FillP — Data Link

![Graph of throughput and delay over time for different flows]

- Flow 1 ingress (mean 43.80 Mbit/s)
- Flow 1 egress (mean 37.02 Mbit/s)
- Flow 2 ingress (mean 52.79 Mbit/s)
- Flow 2 egress (mean 38.12 Mbit/s)
- Flow 3 ingress (mean 92.14 Mbit/s)
- Flow 3 egress (mean 58.07 Mbit/s)

![Graph of per packet interarrival delay for different flows]

- Flow 1 (95th percentile 164.05 ms)
- Flow 2 (95th percentile 177.93 ms)
- Flow 3 (95th percentile 170.16 ms)
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 21:06:40
End at: 2018-04-24 21:07:10
Local clock offset: 3.349 ms
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 167.030 ms
Loss rate: 63.62%
-- Flow 1:
Average throughput: 53.92 Mbit/s
95th percentile per-packet one-way delay: 167.165 ms
Loss rate: 55.40%
-- Flow 2:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 165.888 ms
Loss rate: 71.74%
-- Flow 3:
Average throughput: 26.59 Mbit/s
95th percentile per-packet one-way delay: 162.776 ms
Loss rate: 74.75%
Run 1: Report of Indigo-1-32 — Data Link
Run 2: Statistics of Indigo-1-32

End at: 2018-04-24 21:30:23
Local clock offset: 2.274 ms
Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 167.332 ms
Loss rate: 62.64%
-- Flow 1:
Average throughput: 60.56 Mbit/s
95th percentile per-packet one-way delay: 166.820 ms
Loss rate: 52.13%
-- Flow 2:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 168.528 ms
Loss rate: 72.58%
-- Flow 3:
Average throughput: 26.82 Mbit/s
95th percentile per-packet one-way delay: 167.694 ms
Loss rate: 78.19%
Run 2: Report of Indigo-1-32 — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, with legend indicating mean values in Mbps.

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Run 3: Statistics of Indigo-1-32

Local clock offset: -4.37 ms
Remote clock offset: 3.923 ms

# Below is generated by plot.py at 2018-04-25 01:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 163.286 ms
Loss rate: 64.88%
-- Flow 1:
Average throughput: 52.57 Mbit/s
95th percentile per-packet one-way delay: 162.822 ms
Loss rate: 57.14%
-- Flow 2:
Average throughput: 39.22 Mbit/s
95th percentile per-packet one-way delay: 163.336 ms
Loss rate: 68.75%
-- Flow 3:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 168.760 ms
Loss rate: 78.64%
Run 3: Report of Indigo-1-32 — Data Link

![Graph 1: Throughput (Mbps) vs Time (s)]

- Flow 1 ingress (mean 122.69 Mbps)
- Flow 1 egress (mean 52.57 Mbps)
- Flow 2 ingress (mean 125.46 Mbps)
- Flow 2 egress (mean 39.22 Mbps)
- Flow 3 ingress (mean 148.73 Mbps)
- Flow 3 egress (mean 31.77 Mbps)

![Graph 2: Per-packet one-way delay (ms) vs Time (s)]

- Flow 1 (95th percentile 162.82 ms)
- Flow 2 (95th percentile 163.34 ms)
- Flow 3 (95th percentile 168.76 ms)
Run 4: Statistics of Indigo-1-32

Local clock offset: 0.095 ms  
Remote clock offset: 5.062 ms

# Below is generated by plot.py at 2018-04-25 01:17:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.04 Mbit/s  
95th percentile per-packet one-way delay: 165.381 ms  
Loss rate: 62.09%  
-- Flow 1:  
Average throughput: 54.21 Mbit/s  
95th percentile per-packet one-way delay: 164.154 ms  
Loss rate: 49.05%  
-- Flow 2:  
Average throughput: 34.65 Mbit/s  
95th percentile per-packet one-way delay: 165.498 ms  
Loss rate: 72.53%  
-- Flow 3:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 167.040 ms  
Loss rate: 75.07%
Run 4: Report of Indigo-1-32 — Data Link

![Graph 1: Throughput (Mbps)](image1)

- Flow 1 ingress (mean 106.43 Mbps)
- Flow 1 egress (mean 54.21 Mbps)
- Flow 2 ingress (mean 126.15 Mbps)
- Flow 2 egress (mean 34.65 Mbps)
- Flow 3 ingress (mean 130.29 Mbps)
- Flow 3 egress (mean 32.49 Mbps)

![Graph 2: Per-packet one-way delay (ms)](image2)

- Flow 1 (95th percentile 164.15 ms)
- Flow 2 (95th percentile 185.50 ms)
- Flow 3 (95th percentile 167.04 ms)
Run 5: Statistics of Indigo-1-32

Local clock offset: 6.302 ms  
Remote clock offset: 3.615 ms  

# Below is generated by plot.py at 2018-04-25 01:17:21  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 88.44 Mbit/s  
  95th percentile per-packet one-way delay: 167.206 ms  
  Loss rate: 63.88%  
-- Flow 1:  
  Average throughput: 50.79 Mbit/s  
  95th percentile per-packet one-way delay: 165.804 ms  
  Loss rate: 58.63%  
-- Flow 2:  
  Average throughput: 42.02 Mbit/s  
  95th percentile per-packet one-way delay: 167.779 ms  
  Loss rate: 67.16%  
-- Flow 3:  
  Average throughput: 30.83 Mbit/s  
  95th percentile per-packet one-way delay: 168.428 ms  
  Loss rate: 73.63%
Run 5: Report of Indigo-1-32 — Data Link

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### Throughput (Mbps)

- **Flow 1 ingress (mean 122.79 Mbps)**
- **Flow 1 egress (mean 50.79 Mbps)**
- **Flow 2 ingress (mean 127.94 Mbps)**
- **Flow 2 egress (mean 42.02 Mbps)**
- **Flow 3 ingress (mean 116.09 Mbps)**
- **Flow 3 egress (mean 30.83 Mbps)**

### Per-packet one way delay (ms)

- **Flow 1 (95th percentile 165.90 ms)**
- **Flow 2 (95th percentile 167.78 ms)**
- **Flow 3 (95th percentile 168.43 ms)**
Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 23:01:49
End at: 2018-04-24 23:02:19
Local clock offset: -1.959 ms
Remote clock offset: -3.536 ms

# Below is generated by plot.py at 2018-04-25 01:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.14 Mbit/s
95th percentile per-packet one-way delay: 177.654 ms
Loss rate: 54.40%
-- Flow 1:
Average throughput: 65.63 Mbit/s
95th percentile per-packet one-way delay: 177.635 ms
Loss rate: 44.82%
-- Flow 2:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 177.424 ms
Loss rate: 69.74%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 179.928 ms
Loss rate: 69.37%
Run 6: Report of Indigo-1-32 — Data Link

### Throughput

- **Flow 1 ingress** (mean 119.00 Mbit/s)
- **Flow 1 egress** (mean 65.63 Mbit/s)
- **Flow 2 ingress** (mean 106.95 Mbit/s)
- **Flow 2 egress** (mean 32.35 Mbit/s)
- **Flow 3 ingress** (mean 12.34 Mbit/s)
- **Flow 3 egress** (mean 3.76 Mbit/s)

### Per-packet one-way delay (ms)

- **Flow 1** (95th percentile 177.63 ms)
- **Flow 2** (95th percentile 177.42 ms)
- **Flow 3** (95th percentile 179.93 ms)
Run 7: Statistics of Indigo-1-32

End at: 2018-04-24 23:25:08
Local clock offset: -1.345 ms
Remote clock offset: -1.696 ms

# Below is generated by plot.py at 2018-04-25 01:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 169.385 ms
Loss rate: 63.38%
-- Flow 1:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 168.648 ms
Loss rate: 52.78%
-- Flow 2:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 170.916 ms
Loss rate: 76.22%
-- Flow 3:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 168.883 ms
Loss rate: 73.10%
Run 7: Report of Indigo-1-32 — Data Link

Throughput (Mbps)

0 5 10 15 20 25 30
Time (s)

Flow 1 ingress (mean 129.73 Mbps)  Flow 1 egress (mean 61.23 Mbps)
Flow 2 ingress (mean 113.26 Mbps)  Flow 2 egress (mean 26.93 Mbps)
Flow 3 ingress (mean 132.05 Mbps)  Flow 3 egress (mean 35.76 Mbps)

Per packet one way delay (ms)

0 5 10 15 20 25 30
Time (s)

Flow 1 (95th percentile 168.65 ms)  Flow 2 (95th percentile 170.92 ms)  Flow 3 (95th percentile 168.88 ms)
Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 23:48:02
Local clock offset: 0.564 ms
Remote clock offset: -1.787 ms

# Below is generated by plot.py at 2018-04-25 01:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 162.260 ms
Loss rate: 58.43%
-- Flow 1:
Average throughput: 52.62 Mbit/s
95th percentile per-packet one-way delay: 161.795 ms
Loss rate: 57.64%
-- Flow 2:
Average throughput: 55.14 Mbit/s
95th percentile per-packet one-way delay: 162.879 ms
Loss rate: 59.05%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 165.134 ms
Loss rate: 84.96%
Run 8: Report of Indigo-1-32 — Data Link

![Graph showing data link performance over time with throughput and per-packet one-way delay for three flows.]

- Flow 1 ingress (mean 124.24 Mbit/s) vs. egress (mean 52.62 Mbit/s)
- Flow 2 ingress (mean 134.63 Mbit/s) vs. egress (mean 55.14 Mbit/s)
- Flow 3 ingress (mean 16.84 Mbit/s) vs. egress (mean 2.53 Mbit/s)

![Graph showing per-packet one-way delay for three flows.]

- Flow 1 (95th percentile 161.79 ms)
- Flow 2 (95th percentile 162.88 ms)
- Flow 3 (95th percentile 165.13 ms)
Run 9: Statistics of Indigo-1-32

Start at: 2018-04-25 00:10:47
End at: 2018-04-25 00:11:17
Local clock offset: -4.475 ms
Remote clock offset: -1.746 ms

# Below is generated by plot.py at 2018-04-25 01:18:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 165.965 ms
Loss rate: 62.73%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 164.359 ms
Loss rate: 56.41%
-- Flow 2:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 167.224 ms
Loss rate: 67.38%
-- Flow 3:
Average throughput: 26.00 Mbit/s
95th percentile per-packet one-way delay: 165.470 ms
Loss rate: 76.68%
Run 9: Report of Indigo-1-32 — Data Link

[Graphs showing data link performance over time with various flow rates and delays]
Run 10: Statistics of Indigo-1-32

Start at: 2018-04-25 00:33:31
End at: 2018-04-25 00:34:01
Local clock offset: 0.584 ms
Remote clock offset: -17.055 ms

# Below is generated by plot.py at 2018-04-25 01:18:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 169.456 ms
Loss rate: 60.41%
-- Flow 1:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 169.957 ms
Loss rate: 48.85%
-- Flow 2:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 168.750 ms
Loss rate: 72.98%
-- Flow 3:
Average throughput: 25.49 Mbit/s
95th percentile per-packet one-way delay: 169.550 ms
Loss rate: 77.66%
Run 10: Report of Indigo-1-32 — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 21:08:05
End at: 2018-04-24 21:08:35
Local clock offset: 2.955 ms
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2018-04-25 01:18:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.03 Mbit/s
95th percentile per-packet one-way delay: 163.836 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 65.28 Mbit/s
95th percentile per-packet one-way delay: 164.347 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 163.428 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 162.123 ms
Loss rate: 0.34%
Run 1: Report of PCC-Vivace — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 2: Statistics of PCC-Vivace

Local clock offset: 2.502 ms
Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2018-04-25 01:18:39
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 76.21 Mbit/s
 95th percentile per-packet one-way delay: 160.294 ms
 Loss rate: 0.24%
-- Flow 1:
 Average throughput: 66.81 Mbit/s
 95th percentile per-packet one-way delay: 160.255 ms
 Loss rate: 0.24%
-- Flow 2:
 Average throughput: 12.40 Mbit/s
 95th percentile per-packet one-way delay: 161.470 ms
 Loss rate: 0.16%
-- Flow 3:
 Average throughput: 3.56 Mbit/s
 95th percentile per-packet one-way delay: 158.136 ms
 Loss rate: 0.21%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 21:54:16
End at: 2018-04-24 21:54:46
Local clock offset: -4.457 ms
Remote clock offset: 3.972 ms

# Below is generated by plot.py at 2018-04-25 01:18:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 160.883 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 160.945 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 161.103 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 158.964 ms
Loss rate: 0.27%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

End at: 2018-04-24 22:17:44
Local clock offset: 1.039 ms
Remote clock offset: 5.059 ms

# Below is generated by plot.py at 2018-04-25 01:18:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.89 Mbit/s
95th percentile per-packet one-way delay: 160.762 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 53.65 Mbit/s
95th percentile per-packet one-way delay: 160.646 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 25.57 Mbit/s
95th percentile per-packet one-way delay: 159.639 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 12.84 Mbit/s
95th percentile per-packet one-way delay: 161.793 ms
Loss rate: 2.23%
Run 4: Report of PCC-Vivace — Data Link

![Graph of network throughput and per-packet delay over time for different flows.]

Legend:
- Flow 1 ingress (mean 54.22 Mbit/s)
- Flow 1 egress (mean 53.65 Mbit/s)
- Flow 2 ingress (mean 25.94 Mbit/s)
- Flow 2 egress (mean 25.57 Mbit/s)
- Flow 3 ingress (mean 13.14 Mbit/s)
- Flow 3 egress (mean 12.84 Mbit/s)

Graphs show throughput and per-packet delay over time for different flows, indicating network performance and latency.
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 22:40:03
Local clock offset: 6.526 ms
Remote clock offset: 2.761 ms

# Below is generated by plot.py at 2018-04-25 01:19:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.02 Mbit/s
95th percentile per-packet one-way delay: 161.539 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 54.10 Mbit/s
95th percentile per-packet one-way delay: 161.729 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 159.906 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 159.732 ms
Loss rate: 0.17%
Run 5: Report of PCC-Vivace — Data Link

![Graph 1: Throughput vs Time (Mbps/s)]

- **Flow 1 Ingress** (mean 54.28 Mbps/s)
- **Flow 1 Egress** (mean 54.10 Mbps/s)
- **Flow 2 Ingress** (mean 8.99 Mbps/s)
- **Flow 2 Egress** (mean 8.98 Mbps/s)
- **Flow 3 Ingress** (mean 2.88 Mbps/s)
- **Flow 3 Egress** (mean 2.86 Mbps/s)

![Graph 2: Per-packet Round-trip delay (ms)]

- **Flow 1** (95th percentile 161.73 ms)
- **Flow 2** (95th percentile 159.91 ms)
- **Flow 3** (95th percentile 159.73 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 23:03:14
End at: 2018-04-24 23:03:44
Local clock offset: -2.262 ms
Remote clock offset: -3.75 ms

# Below is generated by plot.py at 2018-04-25 01:19:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.09 Mbit/s
95th percentile per-packet one-way delay: 160.271 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 68.85 Mbit/s
95th percentile per-packet one-way delay: 160.313 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 159.795 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 160.220 ms
Loss rate: 0.83%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 23:26:03
End at: 2018-04-24 23:26:34
Local clock offset: -1.126 ms
Remote clock offset: -1.618 ms

# Below is generated by plot.py at 2018-04-25 01:19:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 163.534 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 163.755 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 158.895 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 158.442 ms
Loss rate: 0.36%
Run 7: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps) vs. Time (s)]

- **Flow 1 ingress** (mean 55.17 Mbps)
- **Flow 1 egress** (mean 55.02 Mbps)
- **Flow 2 ingress** (mean 11.96 Mbps)
- **Flow 2 egress** (mean 11.89 Mbps)
- **Flow 3 ingress** (mean 3.03 Mbps)
- **Flow 3 egress** (mean 3.02 Mbps)

![Graph 2: Packet delay (ms) vs. Time (s)]

- **Flow 1** (95th percentile 163.75 ms)
- **Flow 2** (95th percentile 158.90 ms)
- **Flow 3** (95th percentile 159.44 ms)
Run 8: Statistics of PCC-Vivace

Local clock offset: 0.692 ms
Remote clock offset: -1.773 ms

# Below is generated by plot.py at 2018-04-25 01:19:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.95 Mbit/s
95th percentile per-packet one-way delay: 165.902 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 165.544 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 13.25 Mbit/s
95th percentile per-packet one-way delay: 168.389 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 162.605 ms
Loss rate: 0.34%
Run 8: Report of PCC-Vivace — Data Link

![Graph showing network performance metrics over time.]

<table>
<thead>
<tr>
<th>Throughput (Mbps)</th>
<th>Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

Legend:
- Flow 1 ingress (mean 65.03 Mbps)
- Flow 1 egress (mean 64.71 Mbps)
- Flow 2 ingress (mean 13.34 Mbps)
- Flow 2 egress (mean 13.25 Mbps)
- Flow 3 ingress (mean 7.40 Mbps)
- Flow 3 egress (mean 7.36 Mbps)

![Graph showing packet delay distribution over time.]

<table>
<thead>
<tr>
<th>Per-packet one way delay (ms)</th>
<th>Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
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<td>30</td>
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</tr>
</tbody>
</table>

Legend:
- Flow 1 (95th percentile 165.54 ms)
- Flow 2 (95th percentile 168.39 ms)
- Flow 3 (95th percentile 162.60 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-25 00:12:13
End at: 2018-04-25 00:12:43
Local clock offset: -4.541 ms
Remote clock offset: -1.765 ms

# Below is generated by plot.py at 2018-04-25 01:19:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.90 Mbit/s
95th percentile per-packet one-way delay: 162.219 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 67.70 Mbit/s
95th percentile per-packet one-way delay: 161.827 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 10.41 Mbit/s
95th percentile per-packet one-way delay: 163.094 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 164.098 ms
Loss rate: 1.09%
Run 9: Report of PCC-Vivace — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 68.22 Mbps)
- Flow 1 egress (mean 67.70 Mbps)
- Flow 2 ingress (mean 10.67 Mbps)
- Flow 2 egress (mean 10.41 Mbps)
- Flow 3 ingress (mean 7.05 Mbps)
- Flow 3 egress (mean 6.97 Mbps)

Delay (ms):

- Flow 1 (95th percentile 161.93 ms)
- Flow 2 (95th percentile 163.09 ms)
- Flow 3 (95th percentile 164.10 ms)
Run 10: Statistics of PCC-Vivace

Start at: 2018-04-25 00:34:56
End at: 2018-04-25 00:35:26
Local clock offset: 0.937 ms
Remote clock offset: -17.062 ms

# Below is generated by plot.py at 2018-04-25 01:19:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 67.21 Mbit/s
  95th percentile per-packet one-way delay: 164.491 ms
  Loss rate: 0.40%
-- Flow 1:
  Average throughput: 54.30 Mbit/s
  95th percentile per-packet one-way delay: 164.799 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 15.67 Mbit/s
  95th percentile per-packet one-way delay: 162.996 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 7.56 Mbit/s
  95th percentile per-packet one-way delay: 163.286 ms
  Loss rate: 0.31%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of PCC-Expr

Local clock offset: 3.94 ms
Remote clock offset: -0.567 ms
Run 1: Report of PCC-Expr — Data Link

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 21:11:05
Local clock offset: 2.796 ms
Remote clock offset: -0.503 ms
Run 2: Report of PCC-Expr — Data Link

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Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 21:34:08
End at: 2018-04-24 21:34:38
Local clock offset: 2.1 ms
Remote clock offset: 1.611 ms
Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

End at: 2018-04-24 21:57:46
Local clock offset: -5.079 ms
Remote clock offset: 4.218 ms
Run 4: Report of PCC-Expr — Data Link

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Run 5: Statistics of PCC-Expr

End at: 2018-04-24 22:20:34
Local clock offset: 2.139 ms
Remote clock offset: 5.175 ms
Run 5: Report of PCC-Expr — Data Link

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Run 6: Statistics of PCC-Expr

Local clock offset: 6.089 ms
Remote clock offset: 1.152 ms
Run 6: Report of PCC-Expr — Data Link

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Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 23:06:04
End at: 2018-04-24 23:06:34
Local clock offset: -2.442 ms
Remote clock offset: -4.125 ms
Run 7: Report of PCC-Expr — Data Link

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Figure is missing
Run 8: Statistics of PCC-Expr

Local clock offset: -0.74 ms
Remote clock offset: -1.525 ms
Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing
Run 9: Statistics of PCC-Expr

Local clock offset: -0.042 ms
Remote clock offset: -1.715 ms
Run 9: Report of PCC-Expr — Data Link

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Run 10: Statistics of PCC-Expr

Start at: 2018-04-25 00:15:03
End at: 2018-04-25 00:15:33
Local clock offset: -4.661 ms
Remote clock offset: -1.745 ms
Run 10: Report of PCC-Expr — Data Link

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