Repeated the test of 15 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).

Git summary:
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfe446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af546e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4daa2e8987e893e3eca2a6c7cd0a8
third_party/indigo-1-layer-128-unit @ 3ae9e4e4230d7484501f82ce83776795f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad8430c53d89
third_party/koho_cc @ f0f2e693303ae82ea08e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826fb2b17eaaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1af958fa06d6d186b23c091a55fe872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42fb1bc8143ebc978f3c4f42
third_party/scream @ c3370f7d7bd17265a79aeb3e4016ad2f35965885
third_party/sourdough @ f1a14bffe749737437f61b1ae3eb30b267cde681
third_party/sprout @ 6f2e6e608d91066a9f023df375ee2665089ce
M src/examples/cellsim.cc
M src/examples/proutbt2.cc
M src/network/proutcomm.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 423cbbca3e8ea1d599e7b5c7f25835e8a2b6bfac6
third_party/webrtc @ a488197dd041ace68a42849b2540ad834825f42
test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)

![Diagram showing throughput vs. delay for various schemes]

test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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<tr>
<td>TCP BBR</td>
<td>10</td>
<td>205.10</td>
<td>200.85</td>
<td>187.41</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>98.65</td>
<td>108.13</td>
<td>101.02</td>
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<td>LEDBAT</td>
<td>10</td>
<td>7.89</td>
<td>7.44</td>
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<td>536.39</td>
<td>40.31</td>
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<td>0.21</td>
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<td>0.22</td>
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<td>WebRTC media</td>
<td>10</td>
<td>2.23</td>
<td>1.40</td>
<td>0.57</td>
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<tr>
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<td>7.77</td>
<td>7.61</td>
<td>7.25</td>
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<td>116.35</td>
<td>112.72</td>
<td>108.57</td>
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<tr>
<td>TCP Vegas</td>
<td>9</td>
<td>45.92</td>
<td>57.02</td>
<td>80.97</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>197.17</td>
<td>154.31</td>
<td>107.71</td>
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<tr>
<td>Copa</td>
<td>10</td>
<td>72.31</td>
<td>73.30</td>
<td>75.56</td>
</tr>
<tr>
<td>Indigo-2-256</td>
<td>10</td>
<td>171.07</td>
<td>159.96</td>
<td>128.94</td>
</tr>
<tr>
<td>Indigo-1-32</td>
<td>10</td>
<td>182.24</td>
<td>164.71</td>
<td>148.70</td>
</tr>
<tr>
<td>Indigo-1-128</td>
<td>10</td>
<td>181.14</td>
<td>170.43</td>
<td>136.49</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-01-26 16:20:58
End at: 2018-01-26 16:21:28

# Below is generated by plot.py at 2018-01-26 21:09:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.67 Mbit/s
95th percentile per-packet one-way delay: 76.660 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 207.07 Mbit/s
95th percentile per-packet one-way delay: 71.003 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 198.25 Mbit/s
95th percentile per-packet one-way delay: 76.412 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 185.29 Mbit/s
95th percentile per-packet one-way delay: 81.563 ms
Loss rate: 1.33%
Run 1: Report of TCP BBR — Data Link

![Graph showing network throughput and packet delay](image)

- **Throughput:**
  - Flow 1 ingress: 207.16 Mbps
  - Flow 1 egress: 207.07 Mbps
  - Flow 2 ingress: 198.39 Mbps
  - Flow 2 egress: 198.25 Mbps
  - Flow 3 ingress: 185.85 Mbps
  - Flow 3 egress: 185.29 Mbps

- **Packet Delay:**
  - Flow 1 (95th percentile): 71.00 ms
  - Flow 2 (95th percentile): 76.41 ms
  - Flow 3 (95th percentile): 81.56 ms
Run 2: Statistics of TCP BBR

Start at: 2018-01-26 16:35:12
End at: 2018-01-26 16:35:42

# Below is generated by plot.py at 2018-01-26 21:09:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.18 Mbit/s
95th percentile per-packet one-way delay: 69.156 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 205.93 Mbit/s
95th percentile per-packet one-way delay: 67.148 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 201.86 Mbit/s
95th percentile per-packet one-way delay: 69.720 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 188.44 Mbit/s
95th percentile per-packet one-way delay: 70.720 ms
Loss rate: 1.25%
Run 2: Report of TCP BBR — Data Link

Graphs showing throughput and per-packet one-way delay over time for three different flows.
Run 3: Statistics of TCP BBR

Start at: 2018-01-26 16:49:20
End at: 2018-01-26 16:49:50

# Below is generated by plot.py at 2018-01-26 21:09:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.20 Mbit/s
95th percentile per-packet one-way delay: 68.524 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 206.03 Mbit/s
95th percentile per-packet one-way delay: 66.152 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 191.54 Mbit/s
95th percentile per-packet one-way delay: 68.504 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 189.40 Mbit/s
95th percentile per-packet one-way delay: 73.687 ms
Loss rate: 1.25%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-01-26 17:03:24
End at: 2018-01-26 17:03:54

# Below is generated by plot.py at 2018-01-26 21:09:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.06 Mbit/s
95th percentile per-packet one-way delay: 65.860 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 202.86 Mbit/s
95th percentile per-packet one-way delay: 64.238 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 205.88 Mbit/s
95th percentile per-packet one-way delay: 65.585 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 192.17 Mbit/s
95th percentile per-packet one-way delay: 69.365 ms
Loss rate: 1.05%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2018-01-26 17:17:19
End at: 2018-01-26 17:17:49

# Below is generated by plot.py at 2018-01-26 21:09:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 396.42 Mbit/s
  95th percentile per-packet one-way delay: 69.812 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 203.26 Mbit/s
  95th percentile per-packet one-way delay: 67.547 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 195.82 Mbit/s
  95th percentile per-packet one-way delay: 70.521 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 191.58 Mbit/s
  95th percentile per-packet one-way delay: 71.674 ms
  Loss rate: 1.30%
Run 5: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 203.39 Mbit/s)
- Flow 1 egress (mean 203.26 Mbit/s)
- Flow 2 ingress (mean 196.08 Mbit/s)
- Flow 2 egress (mean 195.82 Mbit/s)
- Flow 3 ingress (mean 192.08 Mbit/s)
- Flow 3 egress (mean 191.58 Mbit/s)
Run 6: Statistics of TCP BBR

Start at: 2018-01-26 17:31:14
End at: 2018-01-26 17:31:44

# Below is generated by plot.py at 2018-01-26 21:09:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 400.87 Mbit/s
  95th percentile per-packet one-way delay: 73.943 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 202.56 Mbit/s
  95th percentile per-packet one-way delay: 69.990 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 206.87 Mbit/s
  95th percentile per-packet one-way delay: 73.737 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 184.53 Mbit/s
  95th percentile per-packet one-way delay: 81.253 ms
  Loss rate: 1.27%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 202.63 Mbps)
- Flow 1 egress (mean 202.56 Mbps)
- Flow 2 ingress (mean 206.97 Mbps)
- Flow 2 egress (mean 206.87 Mbps)
- Flow 3 ingress (mean 184.93 Mbps)
- Flow 3 egress (mean 184.53 Mbps)

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

- Flow 1 (95th percentile 69.99 ms)
- Flow 2 (95th percentile 73.74 ms)
- Flow 3 (95th percentile 81.25 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-01-26 17:45:25
End at: 2018-01-26 17:45:55

# Below is generated by plot.py at 2018-01-26 21:09:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 403.35 Mbit/s
  95th percentile per-packet one-way delay: 65.843 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 205.67 Mbit/s
  95th percentile per-packet one-way delay: 64.456 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 204.85 Mbit/s
  95th percentile per-packet one-way delay: 65.865 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 186.61 Mbit/s
  95th percentile per-packet one-way delay: 68.280 ms
  Loss rate: 1.40%
Run 7: Report of TCP BBR — Data Link

![Data Link Throughput and Delay Graphs](image-url)
Run 8: Statistics of TCP BBR

Start at: 2018-01-26 17:59:10
End at: 2018-01-26 17:59:40

# Below is generated by plot.py at 2018-01-26 21:09:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 399.65 Mbit/s
  95th percentile per-packet one-way delay: 70.615 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 206.10 Mbit/s
  95th percentile per-packet one-way delay: 68.655 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 202.76 Mbit/s
  95th percentile per-packet one-way delay: 70.579 ms
  Loss rate: 0.52%
-- Flow 3:
  Average throughput: 178.37 Mbit/s
  95th percentile per-packet one-way delay: 73.896 ms
  Loss rate: 1.28%
Run 8: Report of TCP BBR — Data Link

![Graph showing network throughput and per-packet one-way delay over time for different flows.](image-url)

- **Throughput (Mb/s):**
  - Flow 1 ingress (mean 206.17 Mb/s)
  - Flow 1 egress (mean 206.10 Mb/s)
  - Flow 2 ingress (mean 202.75 Mb/s)
  - Flow 2 egress (mean 202.76 Mb/s)
  - Flow 3 ingress (mean 179.22 Mb/s)
  - Flow 3 egress (mean 178.37 Mb/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 68.66 ms)
  - Flow 2 (95th percentile 70.58 ms)
  - Flow 3 (95th percentile 73.90 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-01-26 18:13:02
End at: 2018-01-26 18:13:32

# Below is generated by plot.py at 2018-01-26 21:16:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.71 Mbit/s
95th percentile per-packet one-way delay: 78.596 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 201.78 Mbit/s
95th percentile per-packet one-way delay: 76.243 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 194.84 Mbit/s
95th percentile per-packet one-way delay: 78.245 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 174.09 Mbit/s
95th percentile per-packet one-way delay: 81.472 ms
Loss rate: 1.41%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-01-26 18:27:24
End at: 2018-01-26 18:27:54

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 413.59 Mbit/s
  95th percentile per-packet one-way delay: 54.932 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 209.72 Mbit/s
  95th percentile per-packet one-way delay: 55.068 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 205.87 Mbit/s
  95th percentile per-packet one-way delay: 54.471 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 203.62 Mbit/s
  95th percentile per-packet one-way delay: 55.047 ms
  Loss rate: 1.17%
Run 10: Report of TCP BBR — Data Link

![Graph showing throughput and round-trip time over time for different traffic flows.]

- **Flow 1 ingress (mean 209.77 Mbit/s)**
- **Flow 1 egress (mean 209.72 Mbit/s)**
- **Flow 2 ingress (mean 206.05 Mbit/s)**
- **Flow 2 egress (mean 205.87 Mbit/s)**
- **Flow 3 ingress (mean 203.86 Mbit/s)**
- **Flow 3 egress (mean 203.62 Mbit/s)**

---

Per packet one-way delay (ms)

- **Flow 1 (95th percentile 55.07 ms)**
- **Flow 2 (95th percentile 54.47 ms)**
- **Flow 3 (95th percentile 55.05 ms)**
Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 16:19:03
End at: 2018-01-26 16:19:34

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 220.38 Mbit/s
  95th percentile per-packet one-way delay: 59.642 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 97.87 Mbit/s
  95th percentile per-packet one-way delay: 58.132 ms
  Loss rate: 0.57%
-- Flow 2:
  Average throughput: 127.08 Mbit/s
  95th percentile per-packet one-way delay: 59.961 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 115.65 Mbit/s
  95th percentile per-packet one-way delay: 57.484 ms
  Loss rate: 1.09%
Run 1: Report of TCP Cubic — Data Link

![Graphs showing throughput and per-packet one-way delay over time for Flow 1, 2, and 3, with respective mean throughputs of 98.10 Mbit/s, 126.84 Mbit/s, and 115.70 Mbit/s for ingress, and 97.87 Mbit/s, 127.08 Mbit/s, and 115.65 Mbit/s for egress. The 95th percentile delays are 58.13 ms, 59.96 ms, and 57.48 ms.](image-url)
Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 16:33:19
End at: 2018-01-26 16:33:49

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 186.82 Mbit/s
  95th percentile per-packet one-way delay: 55.869 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 98.96 Mbit/s
  95th percentile per-packet one-way delay: 53.895 ms
  Loss rate: 1.00%
-- Flow 2:
  Average throughput: 119.74 Mbit/s
  95th percentile per-packet one-way delay: 56.458 ms
  Loss rate: 0.47%
-- Flow 3:
  Average throughput: 25.13 Mbit/s
  95th percentile per-packet one-way delay: 52.154 ms
  Loss rate: 3.17%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and packet loss over time.

The graph compares throughput and packet loss for different flows, indicating fluctuations and delays.

Legend:
- Flow 1 ingress (mean 99.60 Mbit/s)
- Flow 1 egress (mean 98.96 Mbit/s)
- Flow 2 ingress (mean 119.64 Mbit/s)
- Flow 2 egress (mean 119.74 Mbit/s)
- Flow 3 ingress (mean 25.67 Mbit/s)
- Flow 3 egress (mean 25.13 Mbit/s)

Throughput (Mbit/s) vs. Time (s)

Per packet one-way delay (ms)

Legend:
- Flow 1 (95th percentile 53.90 ms)
- Flow 2 (95th percentile 56.44 ms)
- Flow 3 (95th percentile 52.15 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 16:47:29
End at: 2018-01-26 16:47:59

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 181.98 Mbit/s
95th percentile per-packet one-way delay: 55.007 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 82.38 Mbit/s
95th percentile per-packet one-way delay: 54.762 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 55.409 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 107.52 Mbit/s
95th percentile per-packet one-way delay: 52.859 ms
Loss rate: 0.94%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 17:01:29
End at: 2018-01-26 17:01:59

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.96 Mbit/s
95th percentile per-packet one-way delay: 57.321 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 56.285 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 125.61 Mbit/s
95th percentile per-packet one-way delay: 57.161 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 155.44 Mbit/s
95th percentile per-packet one-way delay: 58.697 ms
Loss rate: 0.69%
Run 4: Report of TCP Cubic — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 79.63 Mbit/s)
- Flow 1 egress (mean 79.41 Mbit/s)
- Flow 2 ingress (mean 125.30 Mbit/s)
- Flow 2 egress (mean 125.61 Mbit/s)
- Flow 3 ingress (mean 154.88 Mbit/s)
- Flow 3 egress (mean 155.44 Mbit/s)

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

- Flow 1 (95th percentile 56.28 ms)
- Flow 2 (95th percentile 57.16 ms)
- Flow 3 (95th percentile 58.70 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 17:15:25
End at: 2018-01-26 17:15:55

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.36 Mbit/s
95th percentile per-packet one-way delay: 57.496 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 110.32 Mbit/s
95th percentile per-packet one-way delay: 56.702 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 103.01 Mbit/s
95th percentile per-packet one-way delay: 57.015 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 102.11 Mbit/s
95th percentile per-packet one-way delay: 59.226 ms
Loss rate: 1.11%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 17:29:21
End at: 2018-01-26 17:29:51

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.49 Mbit/s
95th percentile per-packet one-way delay: 57.036 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 58.721 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 104.82 Mbit/s
95th percentile per-packet one-way delay: 55.974 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 52.869 ms
Loss rate: 0.82%
Run 6: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 87.72 Mbps)
- Flow 1 egress (mean 87.61 Mbps)
- Flow 2 ingress (mean 105.47 Mbps)
- Flow 2 egress (mean 104.82 Mbps)
- Flow 3 ingress (mean 91.74 Mbps)
- Flow 3 egress (mean 91.94 Mbps)

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

- Flow 1 (95th percentile 58.72 ms)
- Flow 2 (95th percentile 55.97 ms)
- Flow 3 (95th percentile 52.87 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 17:43:33
End at: 2018-01-26 17:44:03

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 177.43 Mbit/s
  95th percentile per-packet one-way delay: 56.017 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 89.87 Mbit/s
  95th percentile per-packet one-way delay: 57.968 ms
  Loss rate: 0.61%
-- Flow 2:
  Average throughput: 72.64 Mbit/s
  95th percentile per-packet one-way delay: 54.202 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 119.63 Mbit/s
  95th percentile per-packet one-way delay: 54.891 ms
  Loss rate: 1.08%
Run 7: Report of TCP Cubic — Data Link

![Graph](image1.png)

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![Graph](image2.png)

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Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 17:57:16
End at: 2018-01-26 17:57:46

# Below is generated by plot.py at 2018-01-26 21:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 207.90 Mbit/s
95th percentile per-packet one-way delay: 58.667 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 125.51 Mbit/s
95th percentile per-packet one-way delay: 58.699 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 88.69 Mbit/s
95th percentile per-packet one-way delay: 58.278 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 71.67 Mbit/s
95th percentile per-packet one-way delay: 59.324 ms
Loss rate: 1.07%
Run 8: Report of TCP Cubic — Data Link
Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 18:11:08  
End at: 2018-01-26 18:11:38

# Below is generated by plot.py at 2018-01-26 21:16:48  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 206.15 Mbit/s  
  95th percentile per-packet one-way delay: 55.736 ms  
  Loss rate: 0.48%
  -- Flow 1:
  Average throughput: 87.02 Mbit/s  
  95th percentile per-packet one-way delay: 55.084 ms  
  Loss rate: 0.27%
  -- Flow 2:
  Average throughput: 131.43 Mbit/s  
  95th percentile per-packet one-way delay: 56.370 ms  
  Loss rate: 0.42%
  -- Flow 3:
  Average throughput: 96.66 Mbit/s  
  95th percentile per-packet one-way delay: 55.030 ms  
  Loss rate: 1.17%
Run 9: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress** (mean 86.97 Mbps)
- **Flow 1 egress** (mean 87.02 Mbps)
- **Flow 2 ingress** (mean 131.12 Mbps)
- **Flow 2 egress** (mean 131.13 Mbps)
- **Flow 3 ingress** (mean 96.62 Mbps)
- **Flow 3 egress** (mean 96.66 Mbps)

![Graph showing per-packet one-way delay over time for different flows.](image)

- **Flow 1** (95th percentile 55.08 ms)
- **Flow 2** (95th percentile 56.37 ms)
- **Flow 3** (95th percentile 55.03 ms)
Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 18:25:29
End at: 2018-01-26 18:25:59

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.73 Mbit/s
95th percentile per-packet one-way delay: 59.875 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 127.52 Mbit/s
95th percentile per-packet one-way delay: 59.776 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 111.66 Mbit/s
95th percentile per-packet one-way delay: 59.202 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 124.43 Mbit/s
95th percentile per-packet one-way delay: 60.612 ms
Loss rate: 0.90%
Run 10: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 127.45 Mbit/s)
- Flow 1 egress (mean 127.52 Mbit/s)
- Flow 2 ingress (mean 111.62 Mbit/s)
- Flow 2 egress (mean 111.66 Mbit/s)
- Flow 3 ingress (mean 124.29 Mbit/s)
- Flow 3 egress (mean 124.43 Mbit/s)

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

- Flow 1 (95th percentile 59.78 ms)
- Flow 2 (95th percentile 59.20 ms)
- Flow 3 (95th percentile 60.61 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 16:24:47
End at: 2018-01-26 16:25:17

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 21.00 Mbit/s
  95th percentile per-packet one-way delay: 54.585 ms
  Loss rate: 0.77%
-- Flow 1:
  Average throughput: 9.90 Mbit/s
  95th percentile per-packet one-way delay: 54.632 ms
  Loss rate: 0.81%
-- Flow 2:
  Average throughput: 14.44 Mbit/s
  95th percentile per-packet one-way delay: 54.556 ms
  Loss rate: 0.40%
-- Flow 3:
  Average throughput: 6.08 Mbit/s
  95th percentile per-packet one-way delay: 54.615 ms
  Loss rate: 2.48%
Run 1: Report of LEDBAT — Data Link

![Graph of Throughput vs. Time](image1)

- Flow 1 ingress (mean 9.94 Mbit/s)
- Flow 1 egress (mean 9.90 Mbit/s)
- Flow 2 ingress (mean 14.42 Mbit/s)
- Flow 2 egress (mean 14.44 Mbit/s)
- Flow 3 ingress (mean 6.16 Mbit/s)
- Flow 3 egress (mean 6.08 Mbit/s)

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

- Flow 1 (95th percentile 54.63 ms)
- Flow 2 (95th percentile 54.56 ms)
- Flow 3 (95th percentile 54.62 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 16:39:00
End at: 2018-01-26 16:39:30

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.46 Mbit/s
  95th percentile per-packet one-way delay: 54.892 ms
  Loss rate: 1.70%
  -- Flow 1:
  Average throughput: 9.56 Mbit/s
  95th percentile per-packet one-way delay: 55.046 ms
  Loss rate: 1.48%
  -- Flow 2:
  Average throughput: 6.25 Mbit/s
  95th percentile per-packet one-way delay: 54.596 ms
  Loss rate: 1.47%
  -- Flow 3:
  Average throughput: 5.36 Mbit/s
  95th percentile per-packet one-way delay: 54.585 ms
  Loss rate: 3.39%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-01-26 16:53:10
End at: 2018-01-26 16:53:40

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.44 Mbit/s
  95th percentile per-packet one-way delay: 54.524 ms
  Loss rate: 1.75%
-- Flow 1:
  Average throughput: 9.00 Mbit/s
  95th percentile per-packet one-way delay: 54.449 ms
  Loss rate: 1.52%
-- Flow 2:
  Average throughput: 4.70 Mbit/s
  95th percentile per-packet one-way delay: 54.367 ms
  Loss rate: 1.96%
-- Flow 3:
  Average throughput: 10.15 Mbit/s
  95th percentile per-packet one-way delay: 54.916 ms
  Loss rate: 2.19%
Run 3: Report of LEDBAT — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 9.11 Mbps)**
- **Flow 1 egress (mean 9.00 Mbps)**
- **Flow 2 ingress (mean 4.77 Mbps)**
- **Flow 2 egress (mean 4.76 Mbps)**
- **Flow 3 ingress (mean 10.27 Mbps)**
- **Flow 3 egress (mean 10.15 Mbps)**

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**Per-packet end-to-end delay (ms)**

- **Flow 1 (95th percentile 54.45 ms)**
- **Flow 2 (95th percentile 54.37 ms)**
- **Flow 3 (95th percentile 54.92 ms)**
Run 4: Statistics of LEDBAT

Start at: 2018-01-26 17:07:14
End at: 2018-01-26 17:07:44

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.25 Mbit/s
95th percentile per-packet one-way delay: 54.246 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 54.315 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 54.184 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 4.37%
Run 4: Report of LEDBAT — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 5.20 Mbps)
- **Flow 1 egress** (mean 5.18 Mbps)
- **Flow 2 ingress** (mean 4.61 Mbps)
- **Flow 2 egress** (mean 4.54 Mbps)
- **Flow 3 ingress** (mean 3.33 Mbps)
- **Flow 3 egress** (mean 3.22 Mbps)

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

- **Flow 1** (95th percentile 54.31 ms)
- **Flow 2** (95th percentile 54.18 ms)
- **Flow 3** (95th percentile 50.83 ms)
Run 5: Statistics of LEDBAT

Start at: 2018-01-26 17:21:04
End at: 2018-01-26 17:21:34

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 17.04 Mbit/s
  95th percentile per-packet one-way delay: 51.399 ms
  Loss rate: 1.47%
-- Flow 1:
  Average throughput: 7.79 Mbit/s
  95th percentile per-packet one-way delay: 53.709 ms
  Loss rate: 1.84%
-- Flow 2:
  Average throughput: 11.58 Mbit/s
  95th percentile per-packet one-way delay: 51.036 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 4.78 Mbit/s
  95th percentile per-packet one-way delay: 50.843 ms
  Loss rate: 4.22%
Run 5: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 7.90 Mbit/s)
- **Flow 1 egress** (mean 7.79 Mbit/s)
- **Flow 2 ingress** (mean 11.58 Mbit/s)
- **Flow 2 egress** (mean 11.58 Mbit/s)
- **Flow 3 ingress** (mean 4.94 Mbit/s)
- **Flow 3 egress** (mean 4.78 Mbit/s)

![Graph 2: Packet Delay Over Time](image)

- **Flow 1** (95th percentile 53.71 ms)
- **Flow 2** (95th percentile 51.04 ms)
- **Flow 3** (95th percentile 50.84 ms)
Run 6: Statistics of LEDBAT

Start at: 2018-01-26 17:35:01
End at: 2018-01-26 17:35:31

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 54.368 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 54.320 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 54.293 ms
Loss rate: 3.81%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 54.743 ms
Loss rate: 2.82%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-01-26 17:49:10
End at: 2018-01-26 17:49:40

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 54.293 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 54.350 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 54.290 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 8.79 Mbit/s
95th percentile per-packet one-way delay: 51.335 ms
Loss rate: 0.64%
Run 7: Report of LEDBAT — Data Link

For the throughput chart:
- Flow 1 ingress (mean 9.82 Mbit/s)
- Flow 1 egress (mean 9.79 Mbit/s)
- Flow 2 ingress (mean 6.84 Mbit/s)
- Flow 2 egress (mean 6.78 Mbit/s)
- Flow 3 ingress (mean 8.75 Mbit/s)
- Flow 3 egress (mean 8.79 Mbit/s)

For the packet delay chart:
- Flow 1 (95th percentile 54.35 ms)
- Flow 2 (95th percentile 54.29 ms)
- Flow 3 (95th percentile 51.34 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-01-26 18:02:56
End at: 2018-01-26 18:03:26

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.06 Mbit/s
95th percentile per-packet one-way delay: 54.932 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 55.039 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 54.815 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 54.690 ms
Loss rate: 2.34%
Run 8: Report of LEDBAT — Data Link

![Graph showing throughput and packet round trip time over time for different flows.]
Run 9: Statistics of LEDBAT

Start at: 2018-01-26 18:16:49
End at: 2018-01-26 18:17:19

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 9.56 Mbit/s
  95th percentile per-packet one-way delay: 54.212 ms
  Loss rate: 2.66%
-- Flow 1:
  Average throughput: 5.42 Mbit/s
  95th percentile per-packet one-way delay: 54.247 ms
  Loss rate: 2.67%
-- Flow 2:
  Average throughput: 4.90 Mbit/s
  95th percentile per-packet one-way delay: 54.150 ms
  Loss rate: 2.03%
-- Flow 3:
  Average throughput: 2.72 Mbit/s
  95th percentile per-packet one-way delay: 54.138 ms
  Loss rate: 4.87%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-01-26 18:31:14
End at: 2018-01-26 18:31:44

# Below is generated by plot.py at 2018-01-26 21:17:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 18.34 Mbit/s
  95th percentile per-packet one-way delay: 54.237 ms
  Loss rate: 1.60%
-- Flow 1:
  Average throughput: 7.53 Mbit/s
  95th percentile per-packet one-way delay: 54.273 ms
  Loss rate: 1.41%
-- Flow 2:
  Average throughput: 10.78 Mbit/s
  95th percentile per-packet one-way delay: 54.221 ms
  Loss rate: 1.54%
-- Flow 3:
  Average throughput: 11.18 Mbit/s
  95th percentile per-packet one-way delay: 54.164 ms
  Loss rate: 2.08%
Run 10: Report of LEDBAT — Data Link

![Graph showing throughput and packet delay over time.](image)
Run 1: Statistics of PCC

Start at: 2018-01-26 16:15:13
End at: 2018-01-26 16:15:43

# Below is generated by plot.py at 2018-01-26 21:24:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 541.84 Mbit/s
  95th percentile per-packet one-way delay: 196.337 ms
  Loss rate: 6.50%
-- Flow 1:
  Average throughput: 521.46 Mbit/s
  95th percentile per-packet one-way delay: 196.313 ms
  Loss rate: 6.43%
-- Flow 2:
  Average throughput: 29.84 Mbit/s
  95th percentile per-packet one-way delay: 196.850 ms
  Loss rate: 8.22%
-- Flow 3:
  Average throughput: 1.79 Mbit/s
  95th percentile per-packet one-way delay: 197.657 ms
  Loss rate: 16.87%
Run 1: Report of PCC — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 2: Statistics of PCC

Start at: 2018-01-26 16:29:32
End at: 2018-01-26 16:30:02

# Below is generated by plot.py at 2018-01-26 21:25:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 608.15 Mbit/s
95th percentile per-packet one-way delay: 154.530 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 559.42 Mbit/s
95th percentile per-packet one-way delay: 154.458 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 158.927 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 17.12 Mbit/s
95th percentile per-packet one-way delay: 132.708 ms
Loss rate: 1.43%
Run 2: Report of PCC — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.]
Run 3: Statistics of PCC

Start at: 2018-01-26 16:43:42
End at: 2018-01-26 16:44:12

# Below is generated by plot.py at 2018-01-26 21:25:21
# Datalink statistics
   -- Total of 3 flows:
     Average throughput: 494.22 Mbit/s
     95th percentile per-packet one-way delay: 188.548 ms
     Loss rate: 1.69%
   -- Flow 1:
     Average throughput: 472.09 Mbit/s
     95th percentile per-packet one-way delay: 188.603 ms
     Loss rate: 1.71%
   -- Flow 2:
     Average throughput: 2.25 Mbit/s
     95th percentile per-packet one-way delay: 187.520 ms
     Loss rate: 1.35%
   -- Flow 3:
     Average throughput: 63.18 Mbit/s
     95th percentile per-packet one-way delay: 94.311 ms
     Loss rate: 1.19%
Run 3: Report of PCC — Data Link

![Graph showing data link throughput and per-packet one-way delay](image)

- **Throughput (Mbps):**
  - Flow 1 ingress: 478.63 Mbps
  - Flow 1 egress: 472.09 Mbps
  - Flow 2 ingress: 2.27 Mbps
  - Flow 2 egress: 2.25 Mbps
  - Flow 3 ingress: 63.27 Mbps
  - Flow 3 egress: 63.18 Mbps

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile): 188.60 ms
  - Flow 2 (95th percentile): 187.52 ms
  - Flow 3 (95th percentile): 94.31 ms
Run 4: Statistics of PCC

Start at: 2018-01-26 16:57:52
End at: 2018-01-26 16:58:22

# Below is generated by plot.py at 2018-01-26 21:26:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 560.29 Mbit/s
  95th percentile per-packet one-way delay: 163.706 ms
  Loss rate: 1.78%
-- Flow 1:
  Average throughput: 494.06 Mbit/s
  95th percentile per-packet one-way delay: 163.248 ms
  Loss rate: 1.64%
-- Flow 2:
  Average throughput: 68.33 Mbit/s
  95th percentile per-packet one-way delay: 165.299 ms
  Loss rate: 2.04%
-- Flow 3:
  Average throughput: 64.26 Mbit/s
  95th percentile per-packet one-way delay: 193.569 ms
  Loss rate: 4.36%
Run 4: Report of PCC — Data Link

![Graph showing network performance metrics over time.](image)
Run 5: Statistics of PCC

Start at: 2018-01-26 17:11:55
End at: 2018-01-26 17:12:25

# Below is generated by plot.py at 2018-01-26 21:26:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 574.28 Mbit/s
  95th percentile per-packet one-way delay: 163.490 ms
  Loss rate: 1.74%
-- Flow 1:
  Average throughput: 530.67 Mbit/s
  95th percentile per-packet one-way delay: 163.509 ms
  Loss rate: 1.72%
-- Flow 2:
  Average throughput: 63.59 Mbit/s
  95th percentile per-packet one-way delay: 163.373 ms
  Loss rate: 1.95%
-- Flow 3:
  Average throughput: 4.32 Mbit/s
  95th percentile per-packet one-way delay: 161.647 ms
  Loss rate: 1.68%
Run 5: Report of PCC — Data Link

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

![Graph 2: Per-packet one way delay (ms)](image2)
Run 6: Statistics of PCC

Start at: 2018-01-26 17:25:40
End at: 2018-01-26 17:26:10

# Below is generated by plot.py at 2018-01-26 21:26:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.33 Mbit/s
95th percentile per-packet one-way delay: 190.769 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 520.15 Mbit/s
95th percentile per-packet one-way delay: 190.636 ms
Loss rate: 2.81%
-- Flow 2:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 191.128 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 192.040 ms
Loss rate: 7.42%
Run 6: Report of PCC — Data Link
Run 7: Statistics of PCC

Start at: 2018-01-26 17:39:40
End at: 2018-01-26 17:40:10

# Below is generated by plot.py at 2018-01-26 21:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 589.62 Mbit/s
  95th percentile per-packet one-way delay: 157.382 ms
  Loss rate: 1.87%
-- Flow 1:
  Average throughput: 539.14 Mbit/s
  95th percentile per-packet one-way delay: 157.399 ms
  Loss rate: 1.88%
-- Flow 2:
  Average throughput: 59.70 Mbit/s
  95th percentile per-packet one-way delay: 157.487 ms
  Loss rate: 1.94%
-- Flow 3:
  Average throughput: 33.38 Mbit/s
  95th percentile per-packet one-way delay: 72.595 ms
  Loss rate: 1.13%
Run 7: Report of PCC — Data Link

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

- **Flow 1 ingress (mean 547.56 Mbps)**
- **Flow 1 egress (mean 539.14 Mbps)**
- **Flow 2 ingress (mean 69.51 Mbps)**
- **Flow 2 egress (mean 59.70 Mbps)**
- **Flow 3 ingress (mean 33.40 Mbps)**
- **Flow 3 egress (mean 33.39 Mbps)**

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

- **Flow 1 (95th percentile 157.40 ms)**
- **Flow 2 (95th percentile 157.49 ms)**
- **Flow 3 (95th percentile 72.59 ms)**
Run 8: Statistics of PCC

Start at: 2018-01-26 17:53:47
End at: 2018-01-26 17:54:17

# Below is generated by plot.py at 2018-01-26 21:28:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 591.96 Mbit/s
  95th percentile per-packet one-way delay: 167.096 ms
  Loss rate: 1.95%
-- Flow 1:
  Average throughput: 548.97 Mbit/s
  95th percentile per-packet one-way delay: 167.092 ms
  Loss rate: 1.95%
-- Flow 2:
  Average throughput: 62.75 Mbit/s
  95th percentile per-packet one-way delay: 167.144 ms
  Loss rate: 2.08%
-- Flow 3:
  Average throughput: 4.23 Mbit/s
  95th percentile per-packet one-way delay: 165.365 ms
  Loss rate: 1.60%
Run 8: Report of PCC — Data Link

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

- Flow 1 ingress (mean 557.81 Mbit/s)
- Flow 1 egress (mean 548.97 Mbit/s)
- Flow 2 ingress (mean 63.77 Mbit/s)
- Flow 2 egress (mean 62.75 Mbit/s)
- Flow 3 ingress (mean 4.25 Mbit/s)
- Flow 3 egress (mean 4.23 Mbit/s)
Run 9: Statistics of PCC

Start at: 2018-01-26 18:07:38
End at: 2018-01-26 18:08:08

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 605.09 Mbit/s
95th percentile per-packet one-way delay: 166.651 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 584.78 Mbit/s
95th percentile per-packet one-way delay: 166.617 ms
Loss rate: 3.03%
-- Flow 2:
Average throughput: 15.64 Mbit/s
95th percentile per-packet one-way delay: 166.766 ms
Loss rate: 3.32%
-- Flow 3:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 167.872 ms
Loss rate: 7.31%
Run 9: Report of PCC — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 601.01 Mbit/s)
Flow 1 egress (mean 584.78 Mbit/s)
Flow 2 ingress (mean 16.10 Mbit/s)
Flow 2 egress (mean 15.64 Mbit/s)
Flow 3 ingress (mean 12.47 Mbit/s)
Flow 3 egress (mean 30.45 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 166.62 ms)
Flow 2 (95th percentile 166.77 ms)
Flow 3 (95th percentile 167.87 ms)
Run 10: Statistics of PCC

Start at: 2018-01-26 18:21:29
End at: 2018-01-26 18:21:59

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.46 Mbit/s
95th percentile per-packet one-way delay: 163.576 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 593.15 Mbit/s
95th percentile per-packet one-way delay: 163.578 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 152.962 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 199.444 ms
Loss rate: 5.06%
Run 10: Report of PCC — Data Link

![Graph showing throughput and packet delay data for different flows over time.](image-url)
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 16:12:46
End at: 2018-01-26 16:13:16
Run 1: Report of QUIC Cubic — Data Link

![Graph of Throughput vs Time](image1.png)

![Graph of Packet Delivery Latency vs Time](image2.png)
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 16:27:17
End at: 2018-01-26 16:27:47
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.22 Mbit/s)
- Flow 2 ingress (mean 0.23 Mbit/s)
- Flow 2 egress (mean 0.23 Mbit/s)
- Flow 3 ingress (mean 0.21 Mbit/s)
- Flow 3 egress (mean 0.21 Mbit/s)

- Flow 1 (95th percentile 49.97 ms)
- Flow 2 (95th percentile 50.35 ms)
- Flow 3 (95th percentile 54.02 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 16:41:28
End at: 2018-01-26 16:41:58
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

End at: 2018-01-26 16:56:05
Run 4: Report of QUIC Cubic — Data Link

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

![Graph 2: Packet Loss vs Time](image)
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 17:09:39
End at: 2018-01-26 17:10:09
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 17:23:23
End at: 2018-01-26 17:23:53
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 17:37:24
End at: 2018-01-26 17:37:54
Run 7: Report of QUIC Cubic — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 0.23 Mbps)
- Flow 1 egress (mean 0.23 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 0.23 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 50.14 ms)
- Flow 2 (95th percentile 50.09 ms)
- Flow 3 (95th percentile 50.63 ms)
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 17:51:36
End at: 2018-01-26 17:52:06
Run 8: Report of QUIC Cubic — Data Link

Graph 1: Throughput vs Time
- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.23 Mbit/s)
- Flow 2 ingress (mean 0.22 Mbit/s)
- Flow 2 egress (mean 0.22 Mbit/s)
- Flow 3 ingress (mean 0.21 Mbit/s)
- Flow 3 egress (mean 0.21 Mbit/s)

Graph 2: Per packet one way delay vs Time
- Flow 1 (95th percentile 53.60 ms)
- Flow 2 (95th percentile 50.43 ms)
- Flow 3 (95th percentile 53.94 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 18:05:22
End at: 2018-01-26 18:05:52
Run 9: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)
- Flow 2 ingress (mean 0.21 Mbps)
- Flow 2 egress (mean 0.21 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

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

- Flow 1 (95th percentile 53.94 ms)
- Flow 2 (95th percentile 54.06 ms)
- Flow 3 (95th percentile 53.89 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 18:19:12
End at: 2018-01-26 18:19:42
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-01-26 16:18:24
End at: 2018-01-26 16:18:54

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.702 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.716 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.986 ms
Loss rate: 1.11%
Run 1: Report of SCReAM — Data Link

**Graph 1:**
- **Y-axis:** Throughput (Mbps)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 ingress (mean 0.21 Mbps)
  - Flow 1 egress (mean 0.21 Mbps)
  - Flow 2 ingress (mean 0.21 Mbps)
  - Flow 2 egress (mean 0.21 Mbps)
  - Flow 3 ingress (mean 0.22 Mbps)
  - Flow 3 egress (mean 0.22 Mbps)

**Graph 2:**
- **Y-axis:** Per-packet one-way delay (ms)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 (95th percentile 53.70 ms)
  - Flow 2 (95th percentile 53.72 ms)
  - Flow 3 (95th percentile 49.99 ms)
Run 2: Statistics of SCReAM

Start at: 2018-01-26 16:32:39
End at: 2018-01-26 16:33:09

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.651 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 49.994 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.671 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.133 ms
  Loss rate: 0.76%
Run 3: Statistics of SCReAM

Start at: 2018-01-26 16:46:49
End at: 2018-01-26 16:47:19

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.642 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.659 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.045 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 49.952 ms
  Loss rate: 0.76%
Run 3: Report of SCReAM — Data Link

![Graph showing network throughput over time.]
Run 4: Statistics of SCReAM

Start at: 2018-01-26 17:00:50
End at: 2018-01-26 17:01:20

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.714 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.633 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.668 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.763 ms
  Loss rate: 1.11%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-01-26 17:14:45
End at: 2018-01-26 17:15:15

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.671 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.676 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.666 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 49.984 ms
  Loss rate: 1.12%
Run 5: Report of SCReAM — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 0.21 Mbps)
  - Flow 1 egress (mean 0.21 Mbps)
  - Flow 2 ingress (mean 0.21 Mbps)
  - Flow 2 egress (mean 0.21 Mbps)
  - Flow 3 ingress (mean 0.22 Mbps)
  - Flow 3 egress (mean 0.22 Mbps)

- **Packet Loss Delay (ms):**
  - Flow 1 (95th percentile 53.68 ms)
  - Flow 2 (95th percentile 53.67 ms)
  - Flow 3 (95th percentile 49.98 ms)
Run 6: Statistics of SCReAM

Start at: 2018-01-26 17:28:41
End at: 2018-01-26 17:29:11

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 0.43 Mbit/s
   95th percentile per-packet one-way delay: 50.266 ms
   Loss rate: 0.52%
-- Flow 1:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 50.215 ms
   Loss rate: 0.25%
-- Flow 2:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 49.883 ms
   Loss rate: 0.63%
-- Flow 3:
   Average throughput: 0.22 Mbit/s
   95th percentile per-packet one-way delay: 50.301 ms
   Loss rate: 1.11%
Run 6: Report of SCReAM — Data Link

![Graph showing throughput data](image1)

![Graph showing per-packet round-trip delay](image2)
Run 7: Statistics of SCReAM

Start at: 2018-01-26 17:42:53
End at: 2018-01-26 17:43:23

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.605 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.572 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.588 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.638 ms
  Loss rate: 1.11%
Run 7: Report of SCReAM — Data Link

![Graph showing throughput and packet error rate over time for different flows.](image)
Run 8: Statistics of SCReAM

Start at: 2018-01-26 17:56:37
End at: 2018-01-26 17:57:07
Run 9: Statistics of SCReAM

Start at: 2018-01-26 18:10:29
End at: 2018-01-26 18:10:59

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.657 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.659 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.665 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.083 ms
  Loss rate: 1.10%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-01-26 18:24:49
End at: 2018-01-26 18:25:19

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.756 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.776 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.629 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.001 ms
  Loss rate: 1.12%
Run 10: Report of SCReAM — Data Link

The graphs above show the throughput (Mbps) and per-packet one-way delay (ms) for different flows over time.

- **Throughput (Mbps)**:
  - Flow 1 ingress (mean 0.21 Mbps)
  - Flow 1 egress (mean 0.21 Mbps)
  - Flow 2 ingress (mean 0.21 Mbps)
  - Flow 2 egress (mean 0.21 Mbps)
  - Flow 3 ingress (mean 0.22 Mbps)
  - Flow 3 egress (mean 0.22 Mbps)

- **Per-packet one-way delay (ms)**:
  - Flow 1 (95th percentile 53.78 ms)
  - Flow 2 (95th percentile 53.63 ms)
  - Flow 3 (95th percentile 50.00 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 16:11:04
End at: 2018-01-26 16:11:34

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.25 Mbit/s
  95th percentile per-packet one-way delay: 53.642 ms
  Loss rate: 0.55%
  -- Flow 1:
  Average throughput: 2.25 Mbit/s
  95th percentile per-packet one-way delay: 53.654 ms
  Loss rate: 0.37%
  -- Flow 2:
  Average throughput: 1.42 Mbit/s
  95th percentile per-packet one-way delay: 53.622 ms
  Loss rate: 0.45%
  -- Flow 3:
  Average throughput: 0.59 Mbit/s
  95th percentile per-packet one-way delay: 53.632 ms
  Loss rate: 1.43%
Run 1: Report of WebRTC media — Data Link

Throughput (Mbps) vs. Time (s)

- Flow 1 ingress (mean 2.25 Mbps)
- Flow 1 egress (mean 2.25 Mbps)
- Flow 2 ingress (mean 1.42 Mbps)
- Flow 2 egress (mean 1.42 Mbps)
- Flow 3 ingress (mean 0.60 Mbps)
- Flow 3 egress (mean 0.59 Mbps)

Per-packet one-way delay (ms) vs. Time (s)

- Flow 1 (95th percentile 53.65 ms)
- Flow 2 (95th percentile 53.62 ms)
- Flow 3 (95th percentile 53.63 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-01-26 16:25:28
End at: 2018-01-26 16:25:59

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.23 Mbit/s
  95th percentile per-packet one-way delay: 53.646 ms
  Loss rate: 0.76%
-- Flow 1:
  Average throughput: 2.24 Mbit/s
  95th percentile per-packet one-way delay: 53.657 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 1.42 Mbit/s
  95th percentile per-packet one-way delay: 50.019 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.59 Mbit/s
  95th percentile per-packet one-way delay: 53.815 ms
  Loss rate: 1.84%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2018-01-26 16:39:41
End at: 2018-01-26 16:40:11

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.20 Mbit/s
  95th percentile per-packet one-way delay: 53.627 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 2.24 Mbit/s
  95th percentile per-packet one-way delay: 53.630 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 1.41 Mbit/s
  95th percentile per-packet one-way delay: 53.613 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 0.57 Mbit/s
  95th percentile per-packet one-way delay: 53.629 ms
  Loss rate: 1.44%
Run 3: Report of WebRTC media — Data Link

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

- **Flow 1**
  - Ingress: Mean 2.24 Mbit/s
  - Egress: Mean 2.24 Mbit/s

- **Flow 2**
  - Ingress: Mean 1.42 Mbit/s
  - Egress: Mean 1.41 Mbit/s

- **Flow 3**
  - Ingress: Mean 0.58 Mbit/s
  - Egress: Mean 0.57 Mbit/s

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

- **Flow 1** (95th percentile 53.63 ms)
- **Flow 2** (95th percentile 53.61 ms)
- **Flow 3** (95th percentile 53.63 ms)
Run 4: Statistics of WebRTC media

Start at: 2018-01-26 16:53:51
End at: 2018-01-26 16:54:21

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 53.674 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.630 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 50.089 ms
Loss rate: 1.26%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-01-26 17:07:55
End at: 2018-01-26 17:08:25

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 53.653 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 49.987 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 1.43%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

Start at: 2018-01-26 17:21:46
End at: 2018-01-26 17:22:16

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.08 Mbit/s
  95th percentile per-packet one-way delay: 53.622 ms
  Loss rate: 0.72%
-- Flow 1:
  Average throughput: 2.20 Mbit/s
  95th percentile per-packet one-way delay: 50.273 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 1.38 Mbit/s
  95th percentile per-packet one-way delay: 53.549 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 0.53 Mbit/s
  95th percentile per-packet one-way delay: 53.712 ms
  Loss rate: 2.37%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-01-26 17:35:42
End at: 2018-01-26 17:36:12

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 53.587 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 53.542 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.597 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 1.31%
Run 7: Report of WebRTC media — Data Link

![Graph showing throughput and packet loss over time for different flows.](image)

- **Flow 1 ingress** (mean 2.25 Mbit/s)
- **Flow 1 egress** (mean 2.25 Mbit/s)
- **Flow 2 ingress** (mean 1.41 Mbit/s)
- **Flow 2 egress** (mean 1.40 Mbit/s)
- **Flow 3 ingress** (mean 0.59 Mbit/s)
- **Flow 3 egress** (mean 0.58 Mbit/s)

![Graph showing packet loss over time for different flows.](image)

- **Flow 1** (95th percentile 53.54 ms)
- **Flow 2** (95th percentile 53.60 ms)
- **Flow 3** (95th percentile 53.71 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-01-26 17:49:52
End at: 2018-01-26 17:50:22

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.10 Mbit/s
  95th percentile per-packet one-way delay: 53.690 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 2.21 Mbit/s
  95th percentile per-packet one-way delay: 53.651 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 1.37 Mbit/s
  95th percentile per-packet one-way delay: 53.731 ms
  Loss rate: 0.30%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 53.588 ms
  Loss rate: 1.38%
Run 8: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 2.21 Mbps)
- Flow 1 egress (mean 2.21 Mbps)
- Flow 2 ingress (mean 1.38 Mbps)
- Flow 2 egress (mean 1.37 Mbps)
- Flow 3 ingress (mean 0.55 Mbps)
- Flow 3 egress (mean 0.55 Mbps)

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

- Flow 1 (95th percentile 53.65 ms)
- Flow 2 (95th percentile 53.73 ms)
- Flow 3 (95th percentile 53.59 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-01-26 18:03:38
End at: 2018-01-26 18:04:08

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.16 Mbit/s
  95th percentile per-packet one-way delay: 53.654 ms
  Loss rate: 0.70%
-- Flow 1:
  Average throughput: 2.22 Mbit/s
  95th percentile per-packet one-way delay: 50.371 ms
  Loss rate: 0.58%
-- Flow 2:
  Average throughput: 1.39 Mbit/s
  95th percentile per-packet one-way delay: 53.683 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 0.57 Mbit/s
  95th percentile per-packet one-way delay: 53.720 ms
  Loss rate: 1.52%
Run 9: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 2.22 Mbit/s)  Flow 1 egress (mean 2.22 Mbit/s)
Flow 2 ingress (mean 1.40 Mbit/s)  Flow 2 egress (mean 1.39 Mbit/s)
Flow 3 ingress (mean 0.58 Mbit/s)  Flow 3 egress (mean 0.57 Mbit/s)

Per packet one way delay [ms]

Time (s)

Flow 1 (95th percentile 50.37 ms)  Flow 2 (95th percentile 53.68 ms)  Flow 3 (95th percentile 53.72 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-01-26 18:17:30
End at: 2018-01-26 18:18:00

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.15 Mbit/s
  95th percentile per-packet one-way delay: 53.625 ms
  Loss rate: 0.70%
-- Flow 1:
  Average throughput: 2.22 Mbit/s
  95th percentile per-packet one-way delay: 50.673 ms
  Loss rate: 0.55%
-- Flow 2:
  Average throughput: 1.39 Mbit/s
  95th percentile per-packet one-way delay: 50.327 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 0.57 Mbit/s
  95th percentile per-packet one-way delay: 53.726 ms
  Loss rate: 1.60%
Run 10: Report of WebRTC media — Data Link
Run 1: Statistics of Sprout

Start at: 2018-01-26 16:23:03
End at: 2018-01-26 16:23:33

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.17 Mbit/s
  95th percentile per-packet one-way delay: 54.689 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 7.69 Mbit/s
  95th percentile per-packet one-way delay: 54.615 ms
  Loss rate: 0.83%
-- Flow 2:
  Average throughput: 7.65 Mbit/s
  95th percentile per-packet one-way delay: 54.646 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.34 Mbit/s
  95th percentile per-packet one-way delay: 54.944 ms
  Loss rate: 1.34%
Run 1: Report of Sprout — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 2: Statistics of Sprout

Start at: 2018-01-26 16:37:17
End at: 2018-01-26 16:37:47

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.01 Mbit/s
  95th percentile per-packet one-way delay: 54.421 ms
  Loss rate: 1.33%
-- Flow 1:
  Average throughput: 7.66 Mbit/s
  95th percentile per-packet one-way delay: 54.592 ms
  Loss rate: 1.34%
-- Flow 2:
  Average throughput: 7.67 Mbit/s
  95th percentile per-packet one-way delay: 54.067 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 6.95 Mbit/s
  95th percentile per-packet one-way delay: 51.431 ms
  Loss rate: 2.85%
Run 2: Report of Sprout — Data Link

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

- **Flow 1 ingress** (mean 7.73 Mb/s)
- **Flow 1 egress** (mean 7.66 Mb/s)
- **Flow 2 ingress** (mean 7.67 Mb/s)
- **Flow 2 egress** (mean 7.67 Mb/s)
- **Flow 3 ingress** (mean 7.11 Mb/s)
- **Flow 3 egress** (mean 6.95 Mb/s)

![Graph 2: Delay vs Time](image2.png)

- **Flow 1 (95th percentile 54.59 ms)**
- **Flow 2 (95th percentile 54.07 ms)**
- **Flow 3 (95th percentile 51.43 ms)**

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Run 3: Statistics of Sprout

Start at: 2018-01-26 16:51:26
End at: 2018-01-26 16:51:56

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.34 Mbit/s
  95th percentile per-packet one-way delay: 54.683 ms
  Loss rate: 1.07%
  -- Flow 1:
  Average throughput: 7.77 Mbit/s
  95th percentile per-packet one-way delay: 54.664 ms
  Loss rate: 1.02%
  -- Flow 2:
  Average throughput: 7.74 Mbit/s
  95th percentile per-packet one-way delay: 54.635 ms
  Loss rate: 1.05%
  -- Flow 3:
  Average throughput: 7.42 Mbit/s
  95th percentile per-packet one-way delay: 54.786 ms
  Loss rate: 1.26%
Run 3: Report of Sprout — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 7.83 Mbps)
  - Flow 1 egress (mean 7.77 Mbps)
  - Flow 2 ingress (mean 7.76 Mbps)
  - Flow 2 egress (mean 7.74 Mbps)
  - Flow 3 ingress (mean 7.44 Mbps)
  - Flow 3 egress (mean 7.42 Mbps)

- **Per-packet round-trip delay (ms):**
  - Flow 1 (95th percentile 54.66 ms)
  - Flow 2 (95th percentile 54.63 ms)
  - Flow 3 (95th percentile 54.79 ms)
Run 4: Statistics of Sprout

Start at: 2018-01-26 17:05:30
End at: 2018-01-26 17:06:00

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.12 Mbit/s
  95th percentile per-packet one-way delay: 54.754 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 7.74 Mbit/s
  95th percentile per-packet one-way delay: 54.791 ms
  Loss rate: 0.80%
-- Flow 2:
  Average throughput: 7.66 Mbit/s
  95th percentile per-packet one-way delay: 54.612 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 6.99 Mbit/s
  95th percentile per-packet one-way delay: 54.853 ms
  Loss rate: 2.66%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-01-26 17:19:23
End at: 2018-01-26 17:19:53

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 14.96 Mbit/s
   95th percentile per-packet one-way delay: 54.330 ms
   Loss rate: 1.24%
-- Flow 1:
   Average throughput: 7.67 Mbit/s
   95th percentile per-packet one-way delay: 54.388 ms
   Loss rate: 0.67%
-- Flow 2:
   Average throughput: 7.50 Mbit/s
   95th percentile per-packet one-way delay: 54.353 ms
   Loss rate: 1.48%
-- Flow 3:
   Average throughput: 7.08 Mbit/s
   95th percentile per-packet one-way delay: 51.591 ms
   Loss rate: 2.60%
Run 5: Report of Sprout — Data Link

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[Graph showing throughput over time for different flows with annotations for mean throughput (7.70 Mbit/s, 7.67 Mbit/s, 7.59 Mbit/s, 7.50 Mbit/s, 7.21 Mbit/s, 7.08 Mbit/s).]

[Graph showing per-packet one-way delay with annotations for 95th percentile delays (54.39 ms, 54.35 ms, 54.31 ms).]
Run 6: Statistics of Sprout

Start at: 2018-01-26 17:33:19
End at: 2018-01-26 17:33:49

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.49 Mbit/s
  95th percentile per-packet one-way delay: 54.649 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 7.88 Mbit/s
  95th percentile per-packet one-way delay: 54.675 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 7.72 Mbit/s
  95th percentile per-packet one-way delay: 54.415 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 7.57 Mbit/s
  95th percentile per-packet one-way delay: 54.747 ms
  Loss rate: 0.16%
Run 6: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 7.89 Mbps/s)  Flow 1 egress (mean 7.88 Mbps/s)
Flow 2 ingress (mean 7.72 Mbps/s)  Flow 2 egress (mean 7.72 Mbps/s)
Flow 3 ingress (mean 7.52 Mbps/s)  Flow 3 egress (mean 7.57 Mbps/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.67 ms)  Flow 2 (95th percentile 54.41 ms)  Flow 3 (95th percentile 54.75 ms)
Run 7: Statistics of Sprout

Start at: 2018-01-26 17:47:29
End at: 2018-01-26 17:47:59

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.48 Mbit/s
  95th percentile per-packet one-way delay: 54.577 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 7.86 Mbit/s
  95th percentile per-packet one-way delay: 54.653 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 7.76 Mbit/s
  95th percentile per-packet one-way delay: 54.534 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 7.55 Mbit/s
  95th percentile per-packet one-way delay: 53.469 ms
  Loss rate: 0.40%
Run 7: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 7.86 Mbit/s)**
- **Flow 1 egress (mean 7.86 Mbit/s)**
- **Flow 2 ingress (mean 7.76 Mbit/s)**
- **Flow 2 egress (mean 7.76 Mbit/s)**
- **Flow 3 ingress (mean 7.53 Mbit/s)**
- **Flow 3 egress (mean 7.55 Mbit/s)**

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

- **Flow 1 (95th percentile 54.65 ms)**
- **Flow 2 (95th percentile 54.53 ms)**
- **Flow 3 (95th percentile 53.47 ms)**

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Run 8: Statistics of Sprout

Start at: 2018-01-26 18:01:14
End at: 2018-01-26 18:01:44

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 54.804 ms
Loss rate: 1.04%

-- Flow 1:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 54.619 ms
Loss rate: 0.89%

-- Flow 2:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 54.922 ms
Loss rate: 1.21%

-- Flow 3:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 55.011 ms
Loss rate: 1.19%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-01-26 18:15:06
End at: 2018-01-26 18:15:36

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.90 Mbit/s
  95th percentile per-packet one-way delay: 54.747 ms
  Loss rate: 0.96%
-- Flow 1:
  Average throughput: 7.75 Mbit/s
  95th percentile per-packet one-way delay: 54.747 ms
  Loss rate: 0.83%
-- Flow 2:
  Average throughput: 7.14 Mbit/s
  95th percentile per-packet one-way delay: 54.843 ms
  Loss rate: 0.97%
-- Flow 3:
  Average throughput: 7.38 Mbit/s
  95th percentile per-packet one-way delay: 54.537 ms
  Loss rate: 1.37%
Run 9: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 7.78 Mbit/s)
Flow 1 egress (mean 7.75 Mbit/s)
Flow 2 ingress (mean 7.16 Mbit/s)
Flow 2 egress (mean 7.14 Mbit/s)
Flow 3 ingress (mean 7.39 Mbit/s)
Flow 3 egress (mean 7.38 Mbit/s)

Packet loss ratio (%)

Time (s)

Flow 1 (95th percentile 54.75 ms)
Flow 2 (95th percentile 54.84 ms)
Flow 3 (95th percentile 54.54 ms)
Run 10: Statistics of Sprout

Start at: 2018-01-26 18:29:30
End at: 2018-01-26 18:30:00

# Below is generated by plot.py at 2018-01-26 21:34:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.13 Mbit/s
  95th percentile per-packet one-way delay: 54.672 ms
  Loss rate: 0.83%
-- Flow 1:
  Average throughput: 7.84 Mbit/s
  95th percentile per-packet one-way delay: 54.683 ms
  Loss rate: 0.75%
-- Flow 2:
  Average throughput: 7.62 Mbit/s
  95th percentile per-packet one-way delay: 54.694 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 6.80 Mbit/s
  95th percentile per-packet one-way delay: 54.593 ms
  Loss rate: 1.65%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 16:16:14
End at: 2018-01-26 16:16:44

# Below is generated by plot.py at 2018-01-26 21:35:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 308.63 Mbit/s
  95th percentile per-packet one-way delay: 53.598 ms
  Loss rate: 1.06%
  -- Flow 1:
  Average throughput: 229.91 Mbit/s
  95th percentile per-packet one-way delay: 53.569 ms
  Loss rate: 0.81%
  -- Flow 2:
  Average throughput: 46.00 Mbit/s
  95th percentile per-packet one-way delay: 53.626 ms
  Loss rate: 1.08%
  -- Flow 3:
  Average throughput: 175.84 Mbit/s
  95th percentile per-packet one-way delay: 53.734 ms
  Loss rate: 2.18%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 16:30:35
End at: 2018-01-26 16:31:05

# Below is generated by plot.py at 2018-01-26 21:35:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 242.37 Mbit/s
  95th percentile per-packet one-way delay: 53.545 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 192.16 Mbit/s
  95th percentile per-packet one-way delay: 50.843 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 48.97 Mbit/s
  95th percentile per-packet one-way delay: 53.719 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 67.91 Mbit/s
  95th percentile per-packet one-way delay: 53.582 ms
  Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 16:44:41
End at: 2018-01-26 16:45:11

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.91 Mbit/s
95th percentile per-packet one-way delay: 53.613 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 104.94 Mbit/s
95th percentile per-packet one-way delay: 53.668 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 225.73 Mbit/s
95th percentile per-packet one-way delay: 51.736 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 214.56 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 1.60%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbit/s) vs Time (s)

- Flow 1 ingress (mean 104.80 Mbit/s)
- Flow 1 egress (mean 104.94 Mbit/s)
- Flow 2 ingress (mean 225.89 Mbit/s)
- Flow 2 egress (mean 225.73 Mbit/s)
- Flow 3 ingress (mean 215.26 Mbit/s)
- Flow 3 egress (mean 214.56 Mbit/s)

Per packet one way delay (ms)

- Flow 1 (95th percentile 53.67 ms)
- Flow 2 (95th percentile 51.74 ms)
- Flow 3 (95th percentile 51.45 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 16:58:54
End at: 2018-01-26 16:59:24

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 147.63 Mbit/s
95th percentile per-packet one-way delay: 53.585 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 47.78 Mbit/s
95th percentile per-packet one-way delay: 53.543 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 99.68 Mbit/s
95th percentile per-packet one-way delay: 53.621 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 252.08 Mbit/s
95th percentile per-packet one-way delay: 53.587 ms
Loss rate: 1.36%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 17:12:57
End at: 2018-01-26 17:13:27

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 60.81 Mbit/s
  95th percentile per-packet one-way delay: 53.561 ms
  Loss rate: 0.61%
  -- Flow 1:
  Average throughput: 100.40 Mbit/s
  95th percentile per-packet one-way delay: 53.580 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 43.59 Mbit/s
  95th percentile per-packet one-way delay: 53.526 ms
  Loss rate: 1.13%
  -- Flow 3:
  Average throughput: 13.95 Mbit/s
  95th percentile per-packet one-way delay: 53.503 ms
  Loss rate: 1.38%
Run 5: Report of TaoVA-100x — Data Link

![Graphs showing throughput and packet delay over time for different flows.](image-url)
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 17:26:42  
End at: 2018-01-26 17:27:12

# Below is generated by plot.py at 2018-01-26 21:36:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 185.27 Mbit/s
95th percentile per-packet one-way delay: 53.511 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 240.80 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 53.528 ms
Loss rate: 1.27%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 17:40:43
End at: 2018-01-26 17:41:13

# Below is generated by plot.py at 2018-01-26 21:38:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 318.93 Mbit/s
  95th percentile per-packet one-way delay: 53.466 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 158.48 Mbit/s
  95th percentile per-packet one-way delay: 53.492 ms
  Loss rate: 0.63%
-- Flow 2:
  Average throughput: 163.24 Mbit/s
  95th percentile per-packet one-way delay: 53.353 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 198.74 Mbit/s
  95th percentile per-packet one-way delay: 53.404 ms
  Loss rate: 0.60%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 17:54:50
End at: 2018-01-26 17:55:20

# Below is generated by plot.py at 2018-01-26 21:38:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 50.64 Mbit/s
  95th percentile per-packet one-way delay: 53.559 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 31.95 Mbit/s
  95th percentile per-packet one-way delay: 53.561 ms
  Loss rate: 0.74%
-- Flow 2:
  Average throughput: 25.53 Mbit/s
  95th percentile per-packet one-way delay: 53.551 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 8.31 Mbit/s
  95th percentile per-packet one-way delay: 53.568 ms
  Loss rate: 1.07%
Run 8: Report of TaoVA-100x — Data Link

![Graphs showing throughput and per packet one-way delay](image-url)
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 18:08:41
End at: 2018-01-26 18:09:11

# Below is generated by plot.py at 2018-01-26 21:38:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.14 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 65.95 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 5.10%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

End at: 2018-01-26 18:23:02

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.62 Mbit/s
95th percentile per-packet one-way delay: 53.594 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 236.23 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 53.645 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 73.25 Mbit/s
95th percentile per-packet one-way delay: 54.205 ms
Loss rate: 0.36%
Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 16:14:19
End at: 2018-01-26 16:14:49

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.23 Mbit/s
95th percentile per-packet one-way delay: 51.911 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 159.83 Mbit/s
95th percentile per-packet one-way delay: 51.601 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 52.696 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 149.25 Mbit/s
95th percentile per-packet one-way delay: 51.767 ms
Loss rate: 1.16%
Run 1: Report of TCP Vegas — Data Link

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

Flow 1 (95th percentile 51.60 ms)  
Flow 2 (95th percentile 52.70 ms)  
Flow 3 (95th percentile 51.77 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 16:28:48
End at: 2018-01-26 16:29:18

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 70.66 Mbit/s
  95th percentile per-packet one-way delay: 54.851 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 19.13 Mbit/s
  95th percentile per-packet one-way delay: 53.995 ms
  Loss rate: 0.94%
-- Flow 2:
  Average throughput: 71.37 Mbit/s
  95th percentile per-packet one-way delay: 55.540 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 12.43 Mbit/s
  95th percentile per-packet one-way delay: 53.676 ms
  Loss rate: 1.51%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 16:42:56
End at: 2018-01-26 16:43:26

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.09 Mbit/s
95th percentile per-packet one-way delay: 54.861 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 54.486 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 55.412 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 101.11 Mbit/s
95th percentile per-packet one-way delay: 54.608 ms
Loss rate: 0.75%
Run 3: Report of TCP Vegas — Data Link

\[\text{Graph 1: Throughput (Mbps)}\]

\[\text{Graph 2: Per packet one way delay (ms)}\]
Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 16:57:08
End at: 2018-01-26 16:57:38

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.27 Mbit/s
95th percentile per-packet one-way delay: 59.714 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 28.93 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 17.64 Mbit/s
95th percentile per-packet one-way delay: 54.352 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 138.98 Mbit/s
95th percentile per-packet one-way delay: 60.301 ms
Loss rate: 1.46%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 17:11:10
End at: 2018-01-26 17:11:40

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 100.49 Mbit/s
  95th percentile per-packet one-way delay: 54.743 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 51.52 Mbit/s
  95th percentile per-packet one-way delay: 54.887 ms
  Loss rate: 0.77%
-- Flow 2:
  Average throughput: 55.72 Mbit/s
  95th percentile per-packet one-way delay: 54.647 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 36.38 Mbit/s
  95th percentile per-packet one-way delay: 52.474 ms
  Loss rate: 1.47%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 17:24:55
End at: 2018-01-26 17:25:25

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 106.95 Mbit/s
  95th percentile per-packet one-way delay: 55.068 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 48.04 Mbit/s
  95th percentile per-packet one-way delay: 55.136 ms
  Loss rate: 0.23%
-- Flow 2:
  Average throughput: 54.49 Mbit/s
  95th percentile per-packet one-way delay: 55.293 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 68.92 Mbit/s
  95th percentile per-packet one-way delay: 54.488 ms
  Loss rate: 1.01%
Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 17:38:55  
End at: 2018-01-26 17:39:25

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.92 Mbit/s
95th percentile per-packet one-way delay: 55.745 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 43.87 Mbit/s
95th percentile per-packet one-way delay: 54.063 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 62.17 Mbit/s
95th percentile per-packet one-way delay: 57.340 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 56.517 ms
Loss rate: 2.35%
Run 7: Report of TCP Vegas — Data Link

![Graph of throughput and packet loss over time for three flows.]

- Flow 1 ingress (mean 43.79 Mbit/s)
- Flow 1 egress (mean 43.87 Mbit/s)
- Flow 2 ingress (mean 62.50 Mbit/s)
- Flow 2 egress (mean 62.17 Mbit/s)
- Flow 3 ingress (mean 42.49 Mbit/s)
- Flow 3 egress (mean 41.85 Mbit/s)
Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 17:53:07
End at: 2018-01-26 17:53:37
Run 8: Report of TCP Vegas — Data Link

![Graph showing throughput over time for different flows with corresponding ingress and egress rates.]

![Graph showing per packet one-way delay over time for different flows with 95th percentile delays.]
Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 18:06:55
End at: 2018-01-26 18:07:25

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 52.327 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 13.78 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 51.668 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 111.80 Mbit/s
95th percentile per-packet one-way delay: 51.980 ms
Loss rate: 0.68%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 18:20:45
End at: 2018-01-26 18:21:15

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 75.04 Mbit/s
  95th percentile per-packet one-way delay: 54.750 ms
  Loss rate: 0.40%
-- Flow 1:
  Average throughput: 9.33 Mbit/s
  95th percentile per-packet one-way delay: 54.711 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 65.25 Mbit/s
  95th percentile per-packet one-way delay: 54.356 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 67.99 Mbit/s
  95th percentile per-packet one-way delay: 55.435 ms
  Loss rate: 0.79%
Run 10: Report of TCP Vegas — Data Link

![Graph 1: Throughput over Time]

![Graph 2: Packet Loss Rate over Time]

Flow 1 ingress (mean 9.32 Mbit/s)  Flow 1 egress (mean 9.33 Mbit/s)
Flow 2 ingress (mean 65.65 Mbit/s)  Flow 2 egress (mean 65.25 Mbit/s)
Flow 3 ingress (mean 67.81 Mbit/s)  Flow 3 egress (mean 67.99 Mbit/s)

Flow 1 (95th percentile 54.71 ms)  Flow 2 (95th percentile 54.36 ms)  Flow 3 (95th percentile 55.44 ms)
Run 1: Statistics of Verus

Start at: 2018-01-26 16:11:44
End at: 2018-01-26 16:12:14

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 312.29 Mbit/s
  95th percentile per-packet one-way delay: 98.576 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 141.11 Mbit/s
  95th percentile per-packet one-way delay: 86.017 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 195.51 Mbit/s
  95th percentile per-packet one-way delay: 111.588 ms
  Loss rate: 0.52%
-- Flow 3:
  Average throughput: 126.16 Mbit/s
  95th percentile per-packet one-way delay: 101.436 ms
  Loss rate: 1.35%
Run 1: Report of Verus — Data Link

![Throughput Graph]

![Delay Graph]

- Flow 1 ingress (mean 140.69 Mbit/s)
- Flow 1 egress (mean 141.11 Mbit/s)
- Flow 2 ingress (mean 195.51 Mbit/s)
- Flow 2 egress (mean 195.51 Mbit/s)
- Flow 3 ingress (mean 126.80 Mbit/s)
- Flow 3 egress (mean 126.16 Mbit/s)

- Flow 1 (95th percentile 86.02 ms)
- Flow 2 (95th percentile 111.59 ms)
- Flow 3 (95th percentile 101.44 ms)
Run 2: Statistics of Verus

Start at: 2018-01-26 16:26:08
End at: 2018-01-26 16:26:38

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.34 Mbit/s
95th percentile per-packet one-way delay: 185.393 ms
Loss rate: 6.49%
-- Flow 1:
Average throughput: 222.40 Mbit/s
95th percentile per-packet one-way delay: 161.825 ms
Loss rate: 4.76%
-- Flow 2:
Average throughput: 202.23 Mbit/s
95th percentile per-packet one-way delay: 210.436 ms
Loss rate: 7.21%
-- Flow 3:
Average throughput: 126.81 Mbit/s
95th percentile per-packet one-way delay: 178.888 ms
Loss rate: 12.80%
Run 2: Report of Verus — Data Link

[Graph showing throughput and packet delay over time for different flows.]
Run 3: Statistics of Verus

Start at: 2018-01-26 16:40:21
End at: 2018-01-26 16:40:51

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.62 Mbit/s
95th percentile per-packet one-way delay: 148.009 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 215.81 Mbit/s
95th percentile per-packet one-way delay: 157.090 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 193.05 Mbit/s
95th percentile per-packet one-way delay: 134.976 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 101.82 Mbit/s
95th percentile per-packet one-way delay: 176.539 ms
Loss rate: 3.26%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-01-26 16:54:31
End at: 2018-01-26 16:55:01

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 344.00 Mbit/s
  95th percentile per-packet one-way delay: 105.330 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 198.03 Mbit/s
  95th percentile per-packet one-way delay: 103.451 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 177.69 Mbit/s
  95th percentile per-packet one-way delay: 106.920 ms
  Loss rate: 0.52%
-- Flow 3:
  Average throughput: 87.62 Mbit/s
  95th percentile per-packet one-way delay: 104.794 ms
  Loss rate: 3.05%
Run 4: Report of Verus — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 198.03 Mbit/s) — Flow 1 egress (mean 198.03 Mbit/s)
Flow 2 ingress (mean 177.41 Mbit/s) — Flow 2 egress (mean 177.69 Mbit/s)
Flow 3 ingress (mean 87.44 Mbit/s) — Flow 3 egress (mean 87.62 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 103.45 ms) — Flow 2 (95th percentile 106.92 ms) — Flow 3 (95th percentile 104.79 ms)
Run 5: Statistics of Verus

Start at: 2018-01-26 17:08:34
End at: 2018-01-26 17:09:04

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 344.97 Mbit/s
  95th percentile per-packet one-way delay: 127.138 ms
  Loss rate: 0.85%
-- Flow 1:
  Average throughput: 212.99 Mbit/s
  95th percentile per-packet one-way delay: 122.867 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 133.69 Mbit/s
  95th percentile per-packet one-way delay: 126.691 ms
  Loss rate: 1.35%
-- Flow 3:
  Average throughput: 134.78 Mbit/s
  95th percentile per-packet one-way delay: 139.545 ms
  Loss rate: 1.27%
Run 5: Report of Verus — Data Link

![Graph of data link throughput and packet delay over time](image)

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 213.30 Mbps)
  - Flow 1 egress (mean 212.99 Mbps)
  - Flow 2 ingress (mean 133.28 Mbps)
  - Flow 2 egress (mean 133.69 Mbps)
  - Flow 3 ingress (mean 134.73 Mbps)
  - Flow 3 egress (mean 134.78 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 122.97 ms)
  - Flow 2 (95th percentile 126.69 ms)
  - Flow 3 (95th percentile 139.54 ms)
Run 6: Statistics of Verus

Start at: 2018-01-26 17:22:26
End at: 2018-01-26 17:22:56

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.68 Mbit/s
95th percentile per-packet one-way delay: 80.095 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 127.33 Mbit/s
95th percentile per-packet one-way delay: 78.341 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 125.66 Mbit/s
95th percentile per-packet one-way delay: 74.728 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 112.51 Mbit/s
95th percentile per-packet one-way delay: 91.696 ms
Loss rate: 0.01%
Run 6: Report of Verus — Data Link

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

- Flow 1 ingress (mean 127.84 Mbit/s)
- Flow 1 egress (mean 127.33 Mbit/s)
- Flow 2 ingress (mean 125.00 Mbit/s)
- Flow 2 egress (mean 125.66 Mbit/s)
- Flow 3 ingress (mean 111.28 Mbit/s)
- Flow 3 egress (mean 112.51 Mbit/s)

![Graph of per-packet one-way delay for different flows over time.]

- Flow 1 (95th percentile 78.34 ms)
- Flow 2 (95th percentile 74.73 ms)
- Flow 3 (95th percentile 91.70 ms)
Run 7: Statistics of Verus

Start at: 2018-01-26 17:36:22
End at: 2018-01-26 17:36:52

# Below is generated by plot.py at 2018-01-26 21:45:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 304.92 Mbit/s
  95th percentile per-packet one-way delay: 120.148 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 202.11 Mbit/s
  95th percentile per-packet one-way delay: 122.705 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 116.50 Mbit/s
  95th percentile per-packet one-way delay: 102.956 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 78.13 Mbit/s
  95th percentile per-packet one-way delay: 137.242 ms
  Loss rate: 0.25%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-01-26 17:50:32
End at: 2018-01-26 17:51:02

# Below is generated by plot.py at 2018-01-26 21:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 349.08 Mbit/s
  95th percentile per-packet one-way delay: 173.205 ms
  Loss rate: 0.83%
-- Flow 1:
  Average throughput: 258.07 Mbit/s
  95th percentile per-packet one-way delay: 183.194 ms
  Loss rate: 0.61%
-- Flow 2:
  Average throughput: 97.19 Mbit/s
  95th percentile per-packet one-way delay: 120.532 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 82.71 Mbit/s
  95th percentile per-packet one-way delay: 130.788 ms
  Loss rate: 3.17%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-01-26 18:04:18
End at: 2018-01-26 18:04:48

# Below is generated by plot.py at 2018-01-26 21:49:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.06 Mbit/s
95th percentile per-packet one-way delay: 124.190 ms
Loss rate: 0.88%
   -- Flow 1:
Average throughput: 230.46 Mbit/s
95th percentile per-packet one-way delay: 120.498 ms
Loss rate: 0.30%
   -- Flow 2:
Average throughput: 115.39 Mbit/s
95th percentile per-packet one-way delay: 123.974 ms
Loss rate: 2.93%
   -- Flow 3:
Average throughput: 130.90 Mbit/s
95th percentile per-packet one-way delay: 129.813 ms
Loss rate: 0.28%
Run 9: Report of Verus — Data Link
Run 10: Statistics of Verus

Start at: 2018-01-26 18:18:10
End at: 2018-01-26 18:18:40

# Below is generated by plot.py at 2018-01-26 21:49:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.50 Mbit/s
95th percentile per-packet one-way delay: 84.433 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 163.39 Mbit/s
95th percentile per-packet one-way delay: 78.882 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 186.22 Mbit/s
95th percentile per-packet one-way delay: 90.584 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 80.563 ms
Loss rate: 1.59%
Run 10: Report of Verus — Data Link
Run 1: Statistics of Copa

Start at: 2018-01-26 16:13:25
End at: 2018-01-26 16:13:55

# Below is generated by plot.py at 2018-01-26 21:49:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 148.03 Mbit/s
  95th percentile per-packet one-way delay: 53.553 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 80.67 Mbit/s
  95th percentile per-packet one-way delay: 49.953 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 66.95 Mbit/s
  95th percentile per-packet one-way delay: 53.699 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 87.05 Mbit/s
  95th percentile per-packet one-way delay: 49.946 ms
  Loss rate: 1.19%
Run 1: Report of Copa — Data Link

![Graph showing throughput and per-packet end-to-end delay for different flows over time.]
Run 2: Statistics of Copa

Start at: 2018-01-26 16:27:56
End at: 2018-01-26 16:28:26

# Below is generated by plot.py at 2018-01-26 21:49:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 121.76 Mbit/s
  95th percentile per-packet one-way delay: 53.620 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 53.06 Mbit/s
  95th percentile per-packet one-way delay: 53.695 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 82.06 Mbit/s
  95th percentile per-packet one-way delay: 53.567 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 57.39 Mbit/s
  95th percentile per-packet one-way delay: 53.620 ms
  Loss rate: 2.22%
Run 2: Report of Copa — Data Link

![Graph showing network performance metrics]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 53.05 Mbps)
  - Flow 1 egress (mean 53.06 Mbps)
  - Flow 2 ingress (mean 81.95 Mbps)
  - Flow 2 egress (mean 82.06 Mbps)
  - Flow 3 ingress (mean 57.93 Mbps)
  - Flow 3 egress (mean 57.39 Mbps)

- **Per packet one way delay (ms):**
  - Flow 1 (95th percentile 53.70 ms)
  - Flow 2 (95th percentile 53.57 ms)
  - Flow 3 (95th percentile 53.62 ms)
Run 3: Statistics of Copa

Start at: 2018-01-26 16:42:07
End at: 2018-01-26 16:42:37

# Below is generated by plot.py at 2018-01-26 21:49:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 114.64 Mbit/s
  95th percentile per-packet one-way delay: 53.667 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 62.72 Mbit/s
  95th percentile per-packet one-way delay: 53.642 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 51.24 Mbit/s
  95th percentile per-packet one-way delay: 53.705 ms
  Loss rate: 0.35%
-- Flow 3:
  Average throughput: 68.01 Mbit/s
  95th percentile per-packet one-way delay: 53.719 ms
  Loss rate: 1.65%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-01-26 16:56:15
End at: 2018-01-26 16:56:45

# Below is generated by plot.py at 2018-01-26 21:49:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 161.97 Mbit/s
  95th percentile per-packet one-way delay: 53.571 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 89.94 Mbit/s
  95th percentile per-packet one-way delay: 53.575 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 80.33 Mbit/s
  95th percentile per-packet one-way delay: 53.527 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 73.19 Mbit/s
  95th percentile per-packet one-way delay: 53.592 ms
  Loss rate: 1.39%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-01-26 17:10:18
End at: 2018-01-26 17:10:48

# Below is generated by plot.py at 2018-01-26 21:50:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 145.01 Mbit/s
  95th percentile per-packet one-way delay: 53.482 ms
  Loss rate: 0.73%

-- Flow 1:
  Average throughput: 78.37 Mbit/s
  95th percentile per-packet one-way delay: 53.514 ms
  Loss rate: 0.58%

-- Flow 2:
  Average throughput: 80.91 Mbit/s
  95th percentile per-packet one-way delay: 50.088 ms
  Loss rate: 0.76%

-- Flow 3:
  Average throughput: 53.34 Mbit/s
  95th percentile per-packet one-way delay: 50.149 ms
  Loss rate: 1.40%
Run 5: Report of Copa — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.]
Run 6: Statistics of Copa

Start at: 2018-01-26 17:24:03
End at: 2018-01-26 17:24:33

# Below is generated by plot.py at 2018-01-26 21:51:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 128.38 Mbit/s
  95th percentile per-packet one-way delay: 53.538 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 55.73 Mbit/s
  95th percentile per-packet one-way delay: 53.454 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 77.67 Mbit/s
  95th percentile per-packet one-way delay: 53.517 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 81.49 Mbit/s
  95th percentile per-packet one-way delay: 53.658 ms
  Loss rate: 1.01%
Run 6: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 55.62 Mbit/s)
- Flow 1 egress (mean 55.73 Mbit/s)
- Flow 2 ingress (mean 77.66 Mbit/s)
- Flow 2 egress (mean 77.67 Mbit/s)
- Flow 3 ingress (mean 81.23 Mbit/s)
- Flow 3 egress (mean 81.49 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 53.45 ms)
- Flow 2 (95th percentile 53.52 ms)
- Flow 3 (95th percentile 53.66 ms)
Run 7: Statistics of Copa

Start at: 2018-01-26 17:38:03
End at: 2018-01-26 17:38:33

# Below is generated by plot.py at 2018-01-26 21:51:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.69 Mbit/s
95th percentile per-packet one-way delay: 53.420 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 69.09 Mbit/s
95th percentile per-packet one-way delay: 50.453 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 73.02 Mbit/s
95th percentile per-packet one-way delay: 53.459 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 50.132 ms
Loss rate: 1.16%
Run 7: Report of Copa — Data Link

![Graph showing throughput and packet error rate over time for different flows]

- Flow 1 ingress (mean 68.93 Mbit/s)
- Flow 1 egress (mean 69.09 Mbit/s)
- Flow 2 ingress (mean 73.30 Mbit/s)
- Flow 2 egress (mean 73.02 Mbit/s)
- Flow 3 ingress (mean 88.09 Mbit/s)
- Flow 3 egress (mean 88.19 Mbit/s)

![Graph showing per-packet error rate and error delay for different flows]

- Flow 1 (95th percentile 50.45 ms)
- Flow 2 (95th percentile 53.46 ms)
- Flow 3 (95th percentile 50.13 ms)
Run 8: Statistics of Copa

Start at: 2018-01-26 17:52:15
End at: 2018-01-26 17:52:45

# Below is generated by plot.py at 2018-01-26 21:52:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 151.39 Mbit/s
  95th percentile per-packet one-way delay: 53.582 ms
  Loss rate: 0.71%
  -- Flow 1:
    Average throughput: 75.56 Mbit/s
    95th percentile per-packet one-way delay: 53.552 ms
    Loss rate: 0.57%
  -- Flow 2:
    Average throughput: 81.24 Mbit/s
    95th percentile per-packet one-way delay: 53.608 ms
    Loss rate: 0.49%
  -- Flow 3:
    Average throughput: 84.96 Mbit/s
    95th percentile per-packet one-way delay: 53.606 ms
    Loss rate: 1.62%
Run 8: Report of Copa — Data Link
Run 9: Statistics of Copa

Start at: 2018-01-26 18:06:02
End at: 2018-01-26 18:06:32

# Below is generated by plot.py at 2018-01-26 21:52:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 139.01 Mbit/s
  95th percentile per-packet one-way delay: 53.648 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 79.87 Mbit/s
  95th percentile per-packet one-way delay: 53.583 ms
  Loss rate: 0.24%
-- Flow 2:
  Average throughput: 65.34 Mbit/s
  95th percentile per-packet one-way delay: 53.701 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 61.55 Mbit/s
  95th percentile per-packet one-way delay: 53.765 ms
  Loss rate: 1.64%
Run 10: Statistics of Copa

Start at: 2018-01-26 18:19:52
End at: 2018-01-26 18:20:22

# Below is generated by plot.py at 2018-01-26 21:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 153.76 Mbit/s
95th percentile per-packet one-way delay: 53.605 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 78.06 Mbit/s
95th percentile per-packet one-way delay: 53.614 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 74.23 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 100.43 Mbit/s
95th percentile per-packet one-way delay: 53.581 ms
Loss rate: 1.62%
Run 10: Report of Copa — Data Link

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

- Flow 1 ingress (mean 78.00 Mbit/s)
- Flow 1 egress (mean 78.06 Mbit/s)
- Flow 2 ingress (mean 74.28 Mbit/s)
- Flow 2 egress (mean 74.23 Mbit/s)
- Flow 3 ingress (mean 100.79 Mbit/s)
- Flow 3 egress (mean 100.43 Mbit/s)

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

- Flow 1 (95th percentile 53.61 ms)
- Flow 2 (95th percentile 53.61 ms)
- Flow 3 (95th percentile 53.58 ms)
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 16:23:44
End at: 2018-01-26 16:24:14

# Below is generated by plot.py at 2018-01-26 21:54:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 330.46 Mbit/s
  95th percentile per-packet one-way delay: 53.620 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 173.29 Mbit/s
  95th percentile per-packet one-way delay: 53.615 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 166.36 Mbit/s
  95th percentile per-packet one-way delay: 53.656 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 144.21 Mbit/s
  95th percentile per-packet one-way delay: 51.384 ms
  Loss rate: 1.18%
Run 1: Report of Indigo-2-256 — Data Link

![Graph of Throughput and Delay](image)

Throughput (Mbps): 0 to 200

Time (s): 0 to 30

Throughput (Mbps):
- Flow 1 ingress (mean 173.25 Mbps)
- Flow 1 egress (mean 173.29 Mbps)
- Flow 2 ingress (mean 166.28 Mbps)
- Flow 2 egress (mean 166.36 Mbps)
- Flow 3 ingress (mean 144.42 Mbps)
- Flow 3 egress (mean 144.21 Mbps)

Delay (ms):
- Flow 1 (95th percentile 53.62 ms)
- Flow 2 (95th percentile 53.66 ms)
- Flow 3 (95th percentile 51.38 ms)
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 16:37:58
End at: 2018-01-26 16:38:28

# Below is generated by plot.py at 2018-01-26 21:54:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.40 Mbit/s
95th percentile per-packet one-way delay: 54.451 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 169.73 Mbit/s
95th percentile per-packet one-way delay: 54.258 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 169.28 Mbit/s
95th percentile per-packet one-way delay: 54.655 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 119.96 Mbit/s
95th percentile per-packet one-way delay: 54.598 ms
Loss rate: 1.11%
Run 2: Report of Indigo-2-256 — Data Link

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

- Flow 1 ingress (mean 169.65 Mbit/s)
- Flow 1 egress (mean 169.73 Mbit/s)
- Flow 2 ingress (mean 169.44 Mbit/s)
- Flow 2 egress (mean 169.28 Mbit/s)
- Flow 3 ingress (mean 119.98 Mbit/s)
- Flow 3 egress (mean 119.96 Mbit/s)

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

- Flow 1 (95th percentile 54.26 ms)
- Flow 2 (95th percentile 54.66 ms)
- Flow 3 (95th percentile 54.60 ms)
Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 16:52:06
End at: 2018-01-26 16:52:36

# Below is generated by plot.py at 2018-01-26 21:55:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.02 Mbit/s
95th percentile per-packet one-way delay: 53.525 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 177.12 Mbit/s
95th percentile per-packet one-way delay: 53.541 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 169.04 Mbit/s
95th percentile per-packet one-way delay: 51.548 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 137.48 Mbit/s
95th percentile per-packet one-way delay: 52.351 ms
Loss rate: 0.90%
Run 3: Report of Indigo-2-256 — Data Link

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

- **Throughput (Mb/s):**
  - Flow 1 ingress (mean 177.00 Mb/s)
  - Flow 1 egress (mean 177.12 Mb/s)
  - Flow 2 ingress (mean 169.16 Mb/s)
  - Flow 2 egress (mean 169.04 Mb/s)
  - Flow 3 ingress (mean 137.26 Mb/s)
  - Flow 3 egress (mean 137.48 Mb/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 53.54 ms)
  - Flow 2 (95th percentile 51.55 ms)
  - Flow 3 (95th percentile 52.33 ms)
Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 17:06:11
End at: 2018-01-26 17:06:41

# Below is generated by plot.py at 2018-01-26 21:56:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.77 Mbit/s
95th percentile per-packet one-way delay: 53.524 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 52.357 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 160.11 Mbit/s
95th percentile per-packet one-way delay: 53.552 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 132.47 Mbit/s
95th percentile per-packet one-way delay: 54.109 ms
Loss rate: 1.01%
Run 4: Report of Indigo-2-256 — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress: mean 175.34 Mbps
- Flow 1 egress: mean 175.43 Mbps
- Flow 2 ingress: mean 160.04 Mbps
- Flow 2 egress: mean 160.11 Mbps
- Flow 3 ingress: mean 132.41 Mbps
- Flow 3 egress: mean 132.47 Mbps

**Per-packet one way delay (ms):**
- Flow 1 (95th percentile 52.36 ms)
- Flow 2 (95th percentile 53.55 ms)
- Flow 3 (95th percentile 54.11 ms)
Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 17:20:04
End at: 2018-01-26 17:20:34

# Below is generated by plot.py at 2018-01-26 21:56:51
# Datalink statistics

-- Total of 3 flows:
Average throughput: 296.26 Mbit/s
95th percentile per-packet one-way delay: 53.542 ms
Loss rate: 0.42%

-- Flow 1:
Average throughput: 161.88 Mbit/s
95th percentile per-packet one-way delay: 53.526 ms
Loss rate: 0.24%

-- Flow 2:
Average throughput: 145.14 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.42%

-- Flow 3:
Average throughput: 118.62 Mbit/s
95th percentile per-packet one-way delay: 53.509 ms
Loss rate: 1.13%
Run 5: Report of Indigo-2-256 — Data Link
Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 17:34:00
End at: 2018-01-26 17:34:30

# Below is generated by plot.py at 2018-01-26 21:57:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.62 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 169.15 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 165.38 Mbit/s
95th percentile per-packet one-way delay: 53.774 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 100.87 Mbit/s
95th percentile per-packet one-way delay: 54.188 ms
Loss rate: 0.75%
Run 6: Report of Indigo-2-256 — Data Link
Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 17:48:10
End at: 2018-01-26 17:48:40

# Below is generated by plot.py at 2018-01-26 21:57:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 294.52 Mbit/s
  95th percentile per-packet one-way delay: 53.820 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 164.84 Mbit/s
  95th percentile per-packet one-way delay: 53.724 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 140.48 Mbit/s
  95th percentile per-packet one-way delay: 53.874 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 112.83 Mbit/s
  95th percentile per-packet one-way delay: 54.080 ms
  Loss rate: 1.15%
Run 7: Report of Indigo-2-256 — Data Link

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

![Graph 2: Per-packet one-way delay (ms)]
Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 18:01:54
End at: 2018-01-26 18:02:24

# Below is generated by plot.py at 2018-01-26 21:59:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.36 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 173.77 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 159.14 Mbit/s
95th percentile per-packet one-way delay: 54.020 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 135.61 Mbit/s
95th percentile per-packet one-way delay: 54.052 ms
Loss rate: 1.07%
Run 8: Report of Indigo-2-256 — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows with statistical information provided for each.]
Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 18:15:46
End at: 2018-01-26 18:16:16

# Below is generated by plot.py at 2018-01-26 22:00:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 321.76 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 169.47 Mbit/s
95th percentile per-packet one-way delay: 53.733 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 157.39 Mbit/s
95th percentile per-packet one-way delay: 53.949 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 147.09 Mbit/s
95th percentile per-packet one-way delay: 54.370 ms
Loss rate: 1.27%
Run 9: Report of Indigo-2-256 — Data Link

![Graph showing the throughput and per-packet one-way delay for different flows.]

- Flow 1 ingress (mean 169.15 Mbit/s)
- Flow 1 egress (mean 169.47 Mbit/s)
- Flow 2 ingress (mean 157.37 Mbit/s)
- Flow 2 egress (mean 157.39 Mbit/s)
- Flow 3 ingress (mean 147.48 Mbit/s)
- Flow 3 egress (mean 147.09 Mbit/s)
Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 18:30:11
End at: 2018-01-26 18:30:41

# Below is generated by plot.py at 2018-01-26 22:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.45 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 176.05 Mbit/s
95th percentile per-packet one-way delay: 50.420 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 167.28 Mbit/s
95th percentile per-packet one-way delay: 51.478 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 140.22 Mbit/s
95th percentile per-packet one-way delay: 53.473 ms
Loss rate: 1.12%
Run 10: Report of Indigo-2-256 — Data Link
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 16:17:21
End at: 2018-01-26 16:17:51

# Below is generated by plot.py at 2018-01-26 22:01:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 331.81 Mbit/s
  95th percentile per-packet one-way delay: 53.640 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 178.72 Mbit/s
  95th percentile per-packet one-way delay: 53.632 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 161.53 Mbit/s
  95th percentile per-packet one-way delay: 53.711 ms
  Loss rate: 0.50%
-- Flow 3:
  Average throughput: 142.55 Mbit/s
  95th percentile per-packet one-way delay: 51.291 ms
  Loss rate: 0.90%
Run 1: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 178.73 Mbps)
- Flow 1 egress (mean 178.72 Mbps)
- Flow 2 ingress (mean 161.45 Mbps)
- Flow 2 egress (mean 161.53 Mbps)
- Flow 3 ingress (mean 142.32 Mbps)
- Flow 3 egress (mean 142.55 Mbps)

![Graph 2: Packet One-Way Delay (ms)](image2)

- Flow 1 (95th percentile 53.63 ms)
- Flow 2 (95th percentile 53.71 ms)
- Flow 3 (95th percentile 51.29 ms)
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 16:31:35
End at: 2018-01-26 16:32:05

# Below is generated by plot.py at 2018-01-26 22:02:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 356.63 Mbit/s
  95th percentile per-packet one-way delay: 55.145 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 198.22 Mbit/s
  95th percentile per-packet one-way delay: 54.152 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 169.13 Mbit/s
  95th percentile per-packet one-way delay: 55.418 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 143.94 Mbit/s
  95th percentile per-packet one-way delay: 56.923 ms
  Loss rate: 1.28%
Run 2: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 198.15 Mbps)
- Flow 1 egress (mean 198.22 Mbps)
- Flow 2 ingress (mean 169.04 Mbps)
- Flow 2 egress (mean 169.13 Mbps)
- Flow 3 ingress (mean 144.29 Mbps)
- Flow 3 egress (mean 143.94 Mbps)

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

- Flow 1 (95th percentile 54.15 ms)
- Flow 2 (95th percentile 55.42 ms)
- Flow 3 (95th percentile 56.92 ms)
Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 16:45:47
End at: 2018-01-26 16:46:17

# Below is generated by plot.py at 2018-01-26 22:02:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 326.08 Mbit/s
  95th percentile per-packet one-way delay: 54.247 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 169.69 Mbit/s
  95th percentile per-packet one-way delay: 54.050 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 167.54 Mbit/s
  95th percentile per-packet one-way delay: 54.406 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 139.64 Mbit/s
  95th percentile per-packet one-way delay: 54.496 ms
  Loss rate: 1.26%

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Run 3: Report of Indigo-1-32 — Data Link

![Graph of throughput and packet loss delay over time for different flows.

Throughput (Mbps):
- Flow 1 ingress (mean 169.74 Mbps)
- Flow 1 egress (mean 169.69 Mbps)
- Flow 2 ingress (mean 166.96 Mbps)
- Flow 2 egress (mean 167.54 Mbps)
- Flow 3 ingress (mean 139.92 Mbps)
- Flow 3 egress (mean 139.64 Mbps)

Packet loss delay (ms):
- Flow 1 (95th percentile 54.05 ms)
- Flow 2 (95th percentile 54.41 ms)
- Flow 3 (95th percentile 54.50 ms)
Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 16:59:46
End at: 2018-01-26 17:00:16

# Below is generated by plot.py at 2018-01-26 22:03:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.21 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 191.79 Mbit/s
95th percentile per-packet one-way delay: 53.901 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 170.74 Mbit/s
95th percentile per-packet one-way delay: 54.355 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 159.26 Mbit/s
95th percentile per-packet one-way delay: 55.127 ms
Loss rate: 1.20%
Run 4: Report of Indigo-1-32 — Data Link

![Graph 1: Throughput (Mbps) vs Time (s) with data for different flows]

![Graph 2: Per packet one way delay (ms) vs Time (s) with data for different flows]

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Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 17:13:41
End at: 2018-01-26 17:14:11

# Below is generated by plot.py at 2018-01-26 22:03:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.24 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 187.87 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 173.22 Mbit/s
95th percentile per-packet one-way delay: 53.562 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 162.62 Mbit/s
95th percentile per-packet one-way delay: 52.045 ms
Loss rate: 1.08%
Run 5: Report of Indigo-1-32 — Data Link
Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 17:27:38
End at: 2018-01-26 17:28:08

# Below is generated by plot.py at 2018-01-26 22:04:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 345.20 Mbit/s
  95th percentile per-packet one-way delay: 54.440 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 188.97 Mbit/s
  95th percentile per-packet one-way delay: 53.975 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 160.33 Mbit/s
  95th percentile per-packet one-way delay: 54.363 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 154.59 Mbit/s
  95th percentile per-packet one-way delay: 58.042 ms
  Loss rate: 1.10%
Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 17:41:50
End at: 2018-01-26 17:42:20

# Below is generated by plot.py at 2018-01-26 22:05:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.13 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 185.97 Mbit/s
95th percentile per-packet one-way delay: 53.603 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 151.81 Mbit/s
95th percentile per-packet one-way delay: 53.714 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 143.19 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 1.28%
Run 7: Report of Indigo-1-32 — Data Link
Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 17:55:34
End at: 2018-01-26 17:56:04

# Below is generated by plot.py at 2018-01-26 22:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.66 Mbit/s
95th percentile per-packet one-way delay: 55.624 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 182.97 Mbit/s
95th percentile per-packet one-way delay: 54.838 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 159.14 Mbit/s
95th percentile per-packet one-way delay: 55.584 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 145.61 Mbit/s
95th percentile per-packet one-way delay: 58.425 ms
Loss rate: 1.36%
Run 8: Report of Indigo-1-32 — Data Link
Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 18:09:26
End at: 2018-01-26 18:09:56

# Below is generated by plot.py at 2018-01-26 22:07:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.95 Mbit/s
95th percentile per-packet one-way delay: 54.409 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 172.31 Mbit/s
95th percentile per-packet one-way delay: 54.075 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 166.11 Mbit/s
95th percentile per-packet one-way delay: 54.592 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 145.99 Mbit/s
95th percentile per-packet one-way delay: 55.130 ms
Loss rate: 1.31%
Run 9: Report of Indigo-1-32 — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 18:23:47
End at: 2018-01-26 18:24:17

# Below is generated by plot.py at 2018-01-26 22:08:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 325.35 Mbit/s
  95th percentile per-packet one-way delay: 53.606 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 165.91 Mbit/s
  95th percentile per-packet one-way delay: 53.591 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 167.51 Mbit/s
  95th percentile per-packet one-way delay: 53.636 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 149.61 Mbit/s
  95th percentile per-packet one-way delay: 53.605 ms
  Loss rate: 1.26%
Run 10: Report of Indigo-1-32 — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 16:22:00
End at: 2018-01-26 16:22:30

# Below is generated by plot.py at 2018-01-26 22:08:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 342.72 Mbit/s
  95th percentile per-packet one-way delay: 51.053 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 186.31 Mbit/s
  95th percentile per-packet one-way delay: 50.706 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 169.61 Mbit/s
  95th percentile per-packet one-way delay: 51.278 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 135.94 Mbit/s
  95th percentile per-packet one-way delay: 51.822 ms
  Loss rate: 1.08%
Run 1: Report of Indigo-1-128 — Data Link
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 16:36:13
End at: 2018-01-26 16:36:43

# Below is generated by plot.py at 2018-01-26 22:09:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.74 Mbit/s
95th percentile per-packet one-way delay: 53.609 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 186.53 Mbit/s
95th percentile per-packet one-way delay: 53.613 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 176.18 Mbit/s
95th percentile per-packet one-way delay: 52.885 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 140.23 Mbit/s
95th percentile per-packet one-way delay: 55.408 ms
Loss rate: 1.20%
Run 2: Report of Indigo-1-128 — Data Link

![Graph 1: Throughput](Image)

- **Flow 1 ingress** (mean 186.55 Mbit/s)  
- **Flow 1 egress** (mean 186.53 Mbit/s)
- **Flow 2 ingress** (mean 176.28 Mbit/s)  
- **Flow 2 egress** (mean 176.18 Mbit/s)
- **Flow 3 ingress** (mean 140.47 Mbit/s)  
- **Flow 3 egress** (mean 140.23 Mbit/s)

![Graph 2: Per Packet One Way Delay](Image)

- **Flow 1** (95th percentile 53.61 ms)  
- **Flow 2** (95th percentile 52.88 ms)  
- **Flow 3** (95th percentile 55.41 ms)
Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 16:50:22
End at: 2018-01-26 16:50:52

# Below is generated by plot.py at 2018-01-26 22:09:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 337.33 Mbit/s
  95th percentile per-packet one-way delay: 53.885 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 179.79 Mbit/s
  95th percentile per-packet one-way delay: 53.806 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 170.83 Mbit/s
  95th percentile per-packet one-way delay: 54.050 ms
  Loss rate: 0.52%
-- Flow 3:
  Average throughput: 137.84 Mbit/s
  95th percentile per-packet one-way delay: 53.761 ms
  Loss rate: 1.23%
Run 3: Report of Indigo-1-128 — Data Link

![Graph showing throughput and per-packet end-to-end delay over time for three different flows.]

Flow 1 ingress (mean 179.79 Mbit/s)  
Flow 1 egress (mean 179.79 Mbit/s)  
Flow 2 ingress (mean 170.84 Mbit/s)  
Flow 2 egress (mean 170.83 Mbit/s)  
Flow 3 ingress (mean 136.09 Mbit/s)  
Flow 3 egress (mean 137.04 Mbit/s)  

Time (s)  
Throughput (Mbit/s)  
Per-packet end-to-end delay (ms)  

Flow 1 (95th percentile 53.01 ms)  
Flow 2 (95th percentile 54.05 ms)  
Flow 3 (95th percentile 53.76 ms)
Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 17:04:26
End at: 2018-01-26 17:04:56

# Below is generated by plot.py at 2018-01-26 22:10:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.17 Mbit/s
95th percentile per-packet one-way delay: 54.479 ms
Loss rate: 0.44%

-- Flow 1:
Average throughput: 191.85 Mbit/s
95th percentile per-packet one-way delay: 54.094 ms
Loss rate: 0.28%

-- Flow 2:
Average throughput: 172.41 Mbit/s
95th percentile per-packet one-way delay: 54.630 ms
Loss rate: 0.41%

-- Flow 3:
Average throughput: 139.24 Mbit/s
95th percentile per-packet one-way delay: 55.588 ms
Loss rate: 1.14%
Run 4: Report of Indigo-1-128 — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 191.74 Mbit/s)  
Flow 1 egress (mean 191.85 Mbit/s)
Flow 2 ingress (mean 172.13 Mbit/s)  
Flow 2 egress (mean 172.41 Mbit/s)
Flow 3 ingress (mean 139.37 Mbit/s)  
Flow 3 egress (mean 139.24 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.09 ms)  
Flow 2 (95th percentile 54.63 ms)  
Flow 3 (95th percentile 55.59 ms)
Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 17:18:21
End at: 2018-01-26 17:18:51

# Below is generated by plot.py at 2018-01-26 22:11:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 324.58 Mbit/s
  95th percentile per-packet one-way delay: 53.600 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 171.38 Mbit/s
  95th percentile per-packet one-way delay: 53.571 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 169.59 Mbit/s
  95th percentile per-packet one-way delay: 53.758 ms
  Loss rate: 0.44%
-- Flow 3:
  Average throughput: 126.01 Mbit/s
  95th percentile per-packet one-way delay: 50.622 ms
  Loss rate: 1.15%
Run 5: Report of Indigo-1-128 — Data Link
Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 17:32:16
End at: 2018-01-26 17:32:46

# Below is generated by plot.py at 2018-01-26 22:11:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 345.52 Mbit/s
  95th percentile per-packet one-way delay: 54.481 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 184.65 Mbit/s
  95th percentile per-packet one-way delay: 53.910 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 170.76 Mbit/s
  95th percentile per-packet one-way delay: 54.667 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 148.12 Mbit/s
  95th percentile per-packet one-way delay: 56.195 ms
  Loss rate: 1.19%
Run 6: Report of Indigo-1-128 — Data Link
Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 17:46:26
End at: 2018-01-26 17:46:56

# Below is generated by plot.py at 2018-01-26 22:11:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.19 Mbit/s
95th percentile per-packet one-way delay: 54.146 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 179.14 Mbit/s
95th percentile per-packet one-way delay: 53.984 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 163.03 Mbit/s
95th percentile per-packet one-way delay: 54.143 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 129.58 Mbit/s
95th percentile per-packet one-way delay: 54.592 ms
Loss rate: 1.04%
Run 7: Report of Indigo-1-128 — Data Link

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### Throughput (Mbps)

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

- **Legend:**
  - Flow 1 ingress (mean 179.01 Mbps)
  - Flow 1 egress (mean 179.14 Mbps)
  - Flow 2 ingress (mean 162.98 Mbps)
  - Flow 2 egress (mean 163.03 Mbps)
  - Flow 3 ingress (mean 129.53 Mbps)
  - Flow 3 egress (mean 129.58 Mbps)

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

![Graph showing per-packet one-way delay over time for different flows.]

- **Legend:**
  - Flow 1 (95th percentile 53.98 ms)
  - Flow 2 (95th percentile 54.14 ms)
  - Flow 3 (95th percentile 54.59 ms)
Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 18:00:11
End at: 2018-01-26 18:00:41

# Below is generated by plot.py at 2018-01-26 22:12:11
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 329.77 Mbit/s
    95th percentile per-packet one-way delay: 54.323 ms
    Loss rate: 0.45%
-- Flow 1:
    Average throughput: 175.33 Mbit/s
    95th percentile per-packet one-way delay: 54.054 ms
    Loss rate: 0.29%
-- Flow 2:
    Average throughput: 169.73 Mbit/s
    95th percentile per-packet one-way delay: 54.555 ms
    Loss rate: 0.44%
-- Flow 3:
    Average throughput: 129.71 Mbit/s
    95th percentile per-packet one-way delay: 54.655 ms
    Loss rate: 1.17%
Run 8: Report of Indigo-1-128 — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 175.21 Mb/s)
Flow 1 egress (mean 175.33 Mb/s)
Flow 2 ingress (mean 169.55 Mb/s)
Flow 2 egress (mean 169.73 Mb/s)
Flow 3 ingress (mean 129.85 Mb/s)
Flow 3 egress (mean 129.71 Mb/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.05 ms)
Flow 2 (95th percentile 54.55 ms)
Flow 3 (95th percentile 54.66 ms)
Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 18:14:03
End at: 2018-01-26 18:14:33

# Below is generated by plot.py at 2018-01-26 22:12:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.19 Mbit/s
95th percentile per-packet one-way delay: 53.976 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 174.35 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 172.65 Mbit/s
95th percentile per-packet one-way delay: 54.089 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 130.66 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 1.06%
Run 9: Report of Indigo-1-128 — Data Link

- Throughput (Mbps):
  - Flow 1 ingress: mean 174.32 Mbps
  - Flow 1 egress: mean 174.35 Mbps
  - Flow 2 ingress: mean 172.80 Mbps
  - Flow 2 egress: mean 172.65 Mbps
  - Flow 3 ingress: mean 130.67 Mbps
  - Flow 3 egress: mean 130.66 Mbps

- Per packet one way delay (ms):
  - Flow 1: 95th percentile 53.80 ms
  - Flow 2: 95th percentile 54.09 ms
  - Flow 3: 95th percentile 54.28 ms
Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 18:28:26
End at: 2018-01-26 18:28:56

# Below is generated by plot.py at 2018-01-26 22:12:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.24 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 182.06 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 169.47 Mbit/s
95th percentile per-packet one-way delay: 53.509 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 147.57 Mbit/s
95th percentile per-packet one-way delay: 50.281 ms
Loss rate: 1.30%
Run 10: Report of Indigo-1-128 — Data Link