Pantheon Report

Generated at 2019-12-11 19:10:31 (UTC).
Data path: GCE Sydney on ens4 (local) → GCE London on ens4 (remote).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 5.0.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a75a932a94dfafdd722537b0ec
third_party/fillp @ 0e5bb722943babcd2b090d2c64fd54e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbde58e562f4
third_party/indigo @ 2601c92e4a9d58d38dc4df5c0e0c8d59c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20965337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27af9d942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d6e18b623c091a55f5e872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bcb143ebc9ef3c5ff42
third_party/scream-reproduce @ f09918d1421aa3131bf11ff1964974e1da3b9b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e3d4a46ad18c74f9415f9a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Sydney to GCE London, 5 runs of 30s each per scheme
(mean of all runs by scheme)
<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>
</tr>
</thead>
<tbody>
<tr>
<td>TCP BBR</td>
<td>5</td>
<td>684.40</td>
<td>223.84</td>
<td>4.14</td>
</tr>
<tr>
<td>Copa</td>
<td>5</td>
<td>308.25</td>
<td>201.82</td>
<td>0.00</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>5</td>
<td>285.34</td>
<td>180.44</td>
<td>0.08</td>
</tr>
<tr>
<td>FillP</td>
<td>5</td>
<td>618.63</td>
<td>173.43</td>
<td>1.76</td>
</tr>
<tr>
<td>FillP-Sheep</td>
<td>5</td>
<td>528.37</td>
<td>179.66</td>
<td>0.76</td>
</tr>
<tr>
<td>Indigo</td>
<td>5</td>
<td>148.63</td>
<td>135.68</td>
<td>0.00</td>
</tr>
<tr>
<td>Indigo-MusesC3</td>
<td>5</td>
<td>678.21</td>
<td>200.01</td>
<td>0.55</td>
</tr>
<tr>
<td>Indigo-MusesC5</td>
<td>4</td>
<td>706.79</td>
<td>183.86</td>
<td>0.11</td>
</tr>
<tr>
<td>Indigo-MusesD</td>
<td>5</td>
<td>619.55</td>
<td>195.60</td>
<td>0.48</td>
</tr>
<tr>
<td>Indigo-MusesT</td>
<td>5</td>
<td>695.23</td>
<td>211.76</td>
<td>0.58</td>
</tr>
<tr>
<td>LEDBAT</td>
<td>5</td>
<td>5.20</td>
<td>134.06</td>
<td>0.00</td>
</tr>
<tr>
<td>Muses_DecisionTree</td>
<td>5</td>
<td>472.13</td>
<td>146.81</td>
<td>0.07</td>
</tr>
<tr>
<td>Muses_DecisionTreeH0</td>
<td>5</td>
<td>586.59</td>
<td>191.37</td>
<td>0.66</td>
</tr>
<tr>
<td>Muses_DecisionTreeR0</td>
<td>5</td>
<td>588.69</td>
<td>164.29</td>
<td>0.10</td>
</tr>
<tr>
<td>PCC-Allegro</td>
<td>5</td>
<td>368.05</td>
<td>255.03</td>
<td>4.84</td>
</tr>
<tr>
<td>PCC-Expr</td>
<td>5</td>
<td>274.74</td>
<td>240.18</td>
<td>3.64</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>4</td>
<td>65.85</td>
<td>132.48</td>
<td>0.00</td>
</tr>
<tr>
<td>SCRReAM</td>
<td>5</td>
<td>0.17</td>
<td>133.38</td>
<td>0.00</td>
</tr>
<tr>
<td>Sprout</td>
<td>5</td>
<td>0.56</td>
<td>135.10</td>
<td>0.00</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>5</td>
<td>214.51</td>
<td>133.83</td>
<td>0.00</td>
</tr>
<tr>
<td>TCP Vegas</td>
<td>5</td>
<td>298.15</td>
<td>140.81</td>
<td>0.12</td>
</tr>
<tr>
<td>Verus</td>
<td>5</td>
<td>102.07</td>
<td>196.17</td>
<td>1.86</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>5</td>
<td>304.97</td>
<td>138.34</td>
<td>0.05</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>5</td>
<td>0.81</td>
<td>132.91</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2019-12-11 14:44:41
End at: 2019-12-11 14:45:11
Local clock offset: -0.138 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-12-11 17:48:25
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 836.36 Mbit/s
  95th percentile per-packet one-way delay: 200.798 ms
  Loss rate: 1.62%
  -- Flow 1:
  Average throughput: 836.36 Mbit/s
  95th percentile per-packet one-way delay: 200.798 ms
  Loss rate: 1.62%
Run 1: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 850.04 Mbps)
- Flow 1 egress (mean 836.36 Mbps)

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

- Flow 1 (95th percentile 200.80 ms)
Run 2: Statistics of TCP BBR

Start at: 2019-12-11 15:20:54
End at: 2019-12-11 15:21:24
Local clock offset: -0.076 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-12-11 17:48:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 742.39 Mbit/s
  95th percentile per-packet one-way delay: 238.795 ms
  Loss rate: 7.32%
-- Flow 1:
  Average throughput: 742.39 Mbit/s
  95th percentile per-packet one-way delay: 238.795 ms
  Loss rate: 7.32%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2019-12-11 15:57:03
End at: 2019-12-11 15:57:33
Local clock offset: -0.237 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-12-11 17:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.78 Mbit/s
95th percentile per-packet one-way delay: 209.958 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 509.78 Mbit/s
95th percentile per-packet one-way delay: 209.958 ms
Loss rate: 2.50%
Run 3: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time for Flow 1.]
Run 4: Statistics of TCP BBR

Start at: 2019-12-11 16:33:15
End at: 2019-12-11 16:33:45
Local clock offset: -0.355 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-12-11 17:48:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 687.42 Mbit/s
  95th percentile per-packet one-way delay: 240.971 ms
  Loss rate: 5.60%
-- Flow 1:
  Average throughput: 687.42 Mbit/s
  95th percentile per-packet one-way delay: 240.971 ms
  Loss rate: 5.60%
Run 4: Report of TCP BBR — Data Link

![Graph showing throughput and packet latency over time for TCP BBR with two lines representing flow ingress and egress with different mean values and a third line showing packet latency with a 95th percentile value.]
Run 5: Statistics of TCP BBR

Start at: 2019-12-11 17:09:12
End at: 2019-12-11 17:09:42
Local clock offset: -0.24 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-12-11 17:48:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 646.05 Mbit/s
95th percentile per-packet one-way delay: 228.654 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 646.05 Mbit/s
95th percentile per-packet one-way delay: 228.654 ms
Loss rate: 3.67%
Run 1: Statistics of Copa

Start at: 2019-12-11 14:46:26
End at: 2019-12-11 14:46:56
Local clock offset: -0.006 ms
Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2019-12-11 17:48:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.42 Mbit/s
95th percentile per-packet one-way delay: 172.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 265.42 Mbit/s
95th percentile per-packet one-way delay: 172.754 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2019-12-11 15:22:36
End at: 2019-12-11 15:23:06
Local clock offset: 0.233 ms
Remote clock offset: 0.313 ms

# Below is generated by plot.py at 2019-12-11 17:48:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.12 Mbit/s
95th percentile per-packet one-way delay: 192.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.12 Mbit/s
95th percentile per-packet one-way delay: 192.229 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

![Graphs showing network throughput and packet delivery delay over time.]

- Flow 1 ingress (mean 314.10 Mbit/s)
- Flow 1 egress (mean 314.12 Mbit/s)

- Flow 1 (95th percentile 192.23 ms)
Run 3: Statistics of Copa

Start at: 2019-12-11 15:58:39
End at: 2019-12-11 15:59:09
Local clock offset: -0.191 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-12-11 17:48:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.00 Mbit/s
95th percentile per-packet one-way delay: 205.745 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 303.00 Mbit/s
95th percentile per-packet one-way delay: 205.745 ms
Loss rate: 0.01%
Run 3: Report of Copa — Data Link

![Graph showing throughput and delay over time.]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 303.00 Mbit/s)
  - Flow 1 egress (mean 303.00 Mbit/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 205.75 ms)
Run 4: Statistics of Copa

Start at: 2019-12-11 16:34:56
End at: 2019-12-11 16:35:26
Local clock offset: -0.419 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.04 Mbit/s
95th percentile per-packet one-way delay: 228.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 342.04 Mbit/s
95th percentile per-packet one-way delay: 228.656 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2019-12-11 17:10:52
End at: 2019-12-11 17:11:22
Local clock offset: -0.233 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 316.66 Mbit/s
  95th percentile per-packet one-way delay: 209.697 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 316.66 Mbit/s
  95th percentile per-packet one-way delay: 209.697 ms
  Loss rate: 0.00%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 316.11 Mbit/s)
- Flow 1 egress (mean 316.66 Mbit/s)

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

- Flow 1 (95th percentile 209.70 ms)
Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 14:41:59
End at: 2019-12-11 14:42:29
Local clock offset: -0.048 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 133.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 110.74 Mbit/s
95th percentile per-packet one-way delay: 133.098 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

![Throughput Graph](chart1)

- **Flow 1 ingress** (mean 110.74 Mbit/s)
- **Flow 1 egress** (mean 110.74 Mbit/s)

![Delay Graph](chart2)

- **Flow 1** (95th percentile 133.10 ms)
Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 15:18:04
End at: 2019-12-11 15:18:34
Local clock offset: -0.166 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 313.34 Mbit/s
  95th percentile per-packet one-way delay: 214.570 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 313.34 Mbit/s
  95th percentile per-packet one-way delay: 214.570 ms
  Loss rate: 0.02%
Run 2: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 313.39 Mbps)
- Flow 1 egress (mean 313.34 Mbps)

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

- Flow 1 (95th percentile 214.57 ms)
Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 15:54:14
End at: 2019-12-11 15:54:44
Local clock offset: -0.242 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.17 Mbit/s
95th percentile per-packet one-way delay: 206.948 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 288.17 Mbit/s
95th percentile per-packet one-way delay: 206.948 ms
Loss rate: 0.05%
Run 3: Report of TCP Cubic — Data Link

![Graph of throughput and delay over time.](image-url)

- Flow 1 ingress (mean 288.31 Mbit/s)
- Flow 1 egress (mean 288.17 Mbit/s)

- Flow 1 (95th percentile 206.95 ms)
Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 16:30:21
End at: 2019-12-11 16:30:51
Local clock offset: 0.0 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.47 Mbit/s
95th percentile per-packet one-way delay: 133.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 409.47 Mbit/s
95th percentile per-packet one-way delay: 133.140 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

![Graph](image-url)

- **Flow 1 ingress (mean 409.46 Mbit/s)**
- **Flow 1 egress (mean 409.47 Mbit/s)**

![Graph](image-url)

- **Flow 1 (95th percentile 133.14 ms)**
Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 17:06:17
End at: 2019-12-11 17:06:47
Local clock offset: 0.158 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-12-11 17:53:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.99 Mbit/s
95th percentile per-packet one-way delay: 214.461 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 304.99 Mbit/s
95th percentile per-packet one-way delay: 214.461 ms
Loss rate: 0.31%
Run 5: Report of TCP Cubic — Data Link

![Graph showing throughput and delay over time](image-url)

- **Throughput**: Flow 1 ingress (mean 305.99 Mbit/s) and Flow 1 egress (mean 304.99 Mbit/s)
- **Delay**: Flow 1 (95th percentile 214.46 ms)
Run 1: Statistics of FillP

Start at: 2019-12-11 14:49:45
End at: 2019-12-11 14:50:15
Local clock offset: -0.065 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-12-11 17:54:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.41 Mbit/s
95th percentile per-packet one-way delay: 141.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 377.41 Mbit/s
95th percentile per-packet one-way delay: 141.752 ms
Loss rate: 0.00%
Run 1: Report of FillP — Data Link

![Graph](image1)

![Graph](image2)
Run 2: Statistics of FillP

Start at: 2019-12-11 15:25:58
End at: 2019-12-11 15:26:28
Local clock offset: -0.133 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-12-11 17:54:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 144.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.02 Mbit/s
95th percentile per-packet one-way delay: 144.214 ms
Loss rate: 0.00%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2019-12-11 16:01:59
End at: 2019-12-11 16:02:29
Local clock offset: 0.072 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-12-11 18:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 897.34 Mbit/s
95th percentile per-packet one-way delay: 184.541 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 897.34 Mbit/s
95th percentile per-packet one-way delay: 184.541 ms
Loss rate: 0.87%
Run 3: Report of FillP — Data Link

Graph 1: Throughput vs Time (Mbps)
- Flow 1 ingress (mean 905.14 Mbps)
- Flow 1 egress (mean 897.34 Mbps)

Graph 2: Per Packet one way delay (ms)
- Flow 1 (95th percentile 184.54 ms)
Run 4: Statistics of FillP

Start at: 2019-12-11 16:38:12
End at: 2019-12-11 16:38:42
Local clock offset: -0.335 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-12-11 18:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 833.17 Mbit/s
95th percentile per-packet one-way delay: 194.976 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 833.17 Mbit/s
95th percentile per-packet one-way delay: 194.976 ms
Loss rate: 3.22%
Run 4: Report of FillP — Data Link

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

- Flow 1 ingress (mean 860.87 Mbps)
- Flow 1 egress (mean 833.17 Mbps)

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

- Flow 1 (95th percentile 194.98 ms)
Run 5: Statistics of FillP

Start at: 2019-12-11 17:14:14
End at: 2019-12-11 17:14:44
Local clock offset: ~0.052 ms
Remote clock offset: ~0.095 ms

# Below is generated by plot.py at 2019-12-11 18:06:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 814.23 Mbit/s
95th percentile per-packet one-way delay: 201.677 ms
Loss rate: 4.71%
-- Flow 1:
Average throughput: 814.23 Mbit/s
95th percentile per-packet one-way delay: 201.677 ms
Loss rate: 4.71%
Run 5: Report of FillP — Data Link

Graph 1: Throughput (Mbps)
- Blue dashed line: Flow 1 ingress (mean 854.84 Mbps)
- Blue solid line: Flow 1 egress (mean 814.23 Mbps)

Graph 2: Per packet one way delay (ms)
- Blue line: Flow 1 (95th percentile 201.68 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 14:35:43
End at: 2019-12-11 14:36:13
Local clock offset: -0.088 ms
Remote clock offset: -0.423 ms

# Below is generated by plot.py at 2019-12-11 18:06:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 133.136 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.49 Mbit/s
95th percentile per-packet one-way delay: 133.136 ms
Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

---

**Throughput (Mbps)**

**Time (s)**

- **Flow 1 ingress (mean 46.49 Mbit/s)**
- **Flow 1 egress (mean 46.49 Mbit/s)**

---

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

**Time (s)**

- **Flow 1 (95th percentile 133.14 ms)**

---

46
Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 15:11:16
End at: 2019-12-11 15:11:46
Local clock offset: -0.082 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-12-11 18:07:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 815.74 Mbit/s
95th percentile per-packet one-way delay: 199.506 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 815.74 Mbit/s
95th percentile per-packet one-way delay: 199.506 ms
Loss rate: 2.05%
Run 2: Report of FillP-Sheep — Data Link

**Throughput (Mbit/s) vs Time (s)**
- **Flow 1 ingress (mean 832.01 Mbit/s)**
- **Flow 1 egress (mean 815.74 Mbit/s)**

**Per-packet one-way delay (ms)**
- **Flow 1 (95th percentile 199.51 ms)**
Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 15:47:31
End at: 2019-12-11 15:48:01
Local clock offset: -0.168 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-12-11 18:07:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.79 Mbit/s
95th percentile per-packet one-way delay: 192.502 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 727.79 Mbit/s
95th percentile per-packet one-way delay: 192.502 ms
Loss rate: 1.07%
Run 3: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 735.67 Mbit/s)**
- **Flow 1 egress (mean 727.79 Mbit/s)**

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

- **Flow 1 (95th percentile 192.50 ms)**
Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 16:24:09
End at: 2019-12-11 16:24:39
Local clock offset: -0.325 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-12-11 18:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 803.83 Mbit/s
95th percentile per-packet one-way delay: 183.482 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 803.83 Mbit/s
95th percentile per-packet one-way delay: 183.482 ms
Loss rate: 0.43%
Run 4: Report of FillP-Sheep — Data Link
Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 17:00:00
End at: 2019-12-11 17:00:30
Local clock offset: -0.298 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-12-11 18:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.01 Mbit/s
95th percentile per-packet one-way delay: 189.669 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 248.01 Mbit/s
95th percentile per-packet one-way delay: 189.669 ms
Loss rate: 0.27%
Run 5: Report of FillP-Sheep — Data Link

![Graph of Throughput](image1)

![Graph of Round-trip Delay](image2)
Run 1: Statistics of Indigo

Start at: 2019-12-11 14:43:16
End at: 2019-12-11 14:43:46
Local clock offset: 0.244 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-12-11 18:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.49 Mbit/s
95th percentile per-packet one-way delay: 132.443 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.49 Mbit/s
95th percentile per-packet one-way delay: 132.443 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

![Graph of throughput and packet delay over time](image-url)
Run 2: Statistics of Indigo

Start at: 2019-12-11 15:19:31
End at: 2019-12-11 15:20:01
Local clock offset: 0.199 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-12-11 18:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.05 Mbit/s
95th percentile per-packet one-way delay: 133.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.05 Mbit/s
95th percentile per-packet one-way delay: 133.479 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 139.05 Mbit/s)
- Flow 1 egress (mean 139.05 Mbit/s)

![Graph 2: Packet Delay vs Time]

- Flow 1 (95th percentile 133.48 ms)
Run 3: Statistics of Indigo

Start at: 2019-12-11 15:55:40
End at: 2019-12-11 15:56:10
Local clock offset: -0.221 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-12-11 18:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.35 Mbit/s
95th percentile per-packet one-way delay: 137.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.35 Mbit/s
95th percentile per-packet one-way delay: 137.532 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 137.35 Mbit/s)
- Flow 1 egress (mean 137.35 Mbit/s)

![Graph 2: Per Packet Delays vs Time]

Flow 1 (95th percentile 137.53 ms)
Run 4: Statistics of Indigo

Start at: 2019-12-11 16:31:52
End at: 2019-12-11 16:32:22
Local clock offset: -0.329 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-12-11 18:07:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.17 Mbit/s
95th percentile per-packet one-way delay: 139.411 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 138.17 Mbit/s
95th percentile per-packet one-way delay: 139.411 ms
Loss rate: 0.01%
Run 4: Report of Indigo — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 138.18 Mbit/s)
- Flow 1 egress (mean 138.17 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 139.41 ms)
Run 5: Statistics of Indigo

Start at: 2019-12-11 17:07:44
End at: 2019-12-11 17:08:14
Local clock offset: -0.115 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-12-11 18:07:38
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 191.09 Mbit/s
  95th percentile per-packet one-way delay: 135.533 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 191.09 Mbit/s
  95th percentile per-packet one-way delay: 135.533 ms
  Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

![Graph showing throughput over time with two lines representing ingress and egress data with mean 191.09 Mbit/s each.]

![Graph showing per-packet one-way delay over time with data points indicating Flow 1 (95th percentile 135.53 ms).]
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-11 14:51:13
End at: 2019-12-11 14:51:43
Local clock offset: ~0.108 ms
Remote clock offset: ~0.046 ms

# Below is generated by plot.py at 2019-12-11 18:14:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 616.88 Mbit/s
95th percentile per-packet one-way delay: 156.266 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 616.88 Mbit/s
95th percentile per-packet one-way delay: 156.266 ms
Loss rate: 0.03%
Run 1: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 617.69 Mbit/s)
- Flow 1 egress (mean 616.88 Mbit/s)

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

- Flow 1 (95th percentile 156.27 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 15:27:16
End at: 2019-12-11 15:27:46
Local clock offset: -0.048 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-12-11 18:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 691.56 Mbit/s
95th percentile per-packet one-way delay: 218.212 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 691.56 Mbit/s
95th percentile per-packet one-way delay: 218.212 ms
Loss rate: 0.89%
Run 2: Report of Indigo-MusesC3 — Data Link
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:03:47
End at: 2019-12-11 16:04:17
Local clock offset: -0.204 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-12-11 18:16:38
# Datalink statistics
-- Total of 1 flow:
    Average throughput: 717.65 Mbit/s
    95th percentile per-packet one-way delay: 208.046 ms
    Loss rate: 0.76%
-- Flow 1:
    Average throughput: 717.65 Mbit/s
    95th percentile per-packet one-way delay: 208.046 ms
    Loss rate: 0.76%
Run 3: Report of Indigo-MusesC3 — Data Link

![Graph showing throughput and delay over time](image_url)

- **Throughput (Mbps)**
  - **Flow 1 ingress** (mean 723.13 Mbps)
  - **Flow 1 egress** (mean 717.65 Mbps)

- **Packet one-way delay (ms)**
  - **Flow 1** (95th percentile 208.05 ms)
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 16:39:57
End at: 2019-12-11 16:40:27
Local clock offset: -0.236 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-12-11 18:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 732.51 Mbit/s
95th percentile per-packet one-way delay: 209.892 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 732.51 Mbit/s
95th percentile per-packet one-way delay: 209.892 ms
Loss rate: 0.63%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph showing throughput and latency over time]

- **Flow 1 ingress** (mean 736.38 Mbit/s)
- **Flow 1 egress** (mean 732.51 Mbit/s)

![Graph showing per-packet one-way delay over time]

- Flow 1 (95th percentile 209.89 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 17:15:59
End at: 2019-12-11 17:16:29
Local clock offset: 0.137 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-12-11 18:16:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.44 Mbit/s
95th percentile per-packet one-way delay: 207.631 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 632.44 Mbit/s
95th percentile per-packet one-way delay: 207.631 ms
Loss rate: 0.42%
Run 5: Report of Indigo-MusesC3 — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one way delay (ms)
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 14:31:40
End at: 2019-12-11 14:32:10
Local clock offset: -0.166 ms
Remote clock offset: -0.495 ms
Run 1: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and per-packet delay over time.]

- **Throughput (Mbps)**
  - Blue dashed line: Flow 1 ingress (mean 529.42 Mbps)
  - Blue solid line: Flow 1 egress (mean 529.46 Mbps)

- **Per-packet end-to-end delay (ms)**
  - Flow 1 (95th percentile 148.25 ms)
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:07:03
End at: 2019-12-11 15:07:33
Local clock offset: -0.125 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-12-11 18:17:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 702.01 Mbit/s
95th percentile per-packet one-way delay: 180.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 702.01 Mbit/s
95th percentile per-packet one-way delay: 180.435 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 15:43:16
End at: 2019-12-11 15:43:46
Local clock offset: -0.195 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-12-11 18:17:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 705.54 Mbit/s
95th percentile per-packet one-way delay: 184.616 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 705.54 Mbit/s
95th percentile per-packet one-way delay: 184.616 ms
Loss rate: 0.13%
Run 3: Report of Indigo-MusesC5 — Data Link
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:19:43
End at: 2019-12-11 16:20:13
Local clock offset: -0.294 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-12-11 18:23:05
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 710.69 Mbit/s
  95th percentile per-packet one-way delay: 181.056 ms
  Loss rate: 0.24%
-- Flow 1:
  Average throughput: 710.69 Mbit/s
  95th percentile per-packet one-way delay: 181.056 ms
  Loss rate: 0.24%
Run 4: Report of Indigo-MusesC5 — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 712.40 Mbit/s)**
- **Flow 1 egress (mean 710.69 Mbit/s)**

![Graph 2: End-to-end delay (ms)]

- **Flow 1 (95th percentile 181.06 ms)**
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 16:55:47
End at: 2019-12-11 16:56:17
Local clock offset: -0.389 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-12-11 18:25:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 708.91 Mbit/s
95th percentile per-packet one-way delay: 189.348 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 708.91 Mbit/s
95th percentile per-packet one-way delay: 189.348 ms
Loss rate: 0.09%
Run 5: Report of Indigo-MusesC5 — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 709.62 Mbit/s)  Flow 1 egress (mean 708.91 Mbit/s)

Delay (ms)

Flow 1 (95th percentile 189.35 ms)
Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 14:55:35
End at: 2019-12-11 14:56:05
Local clock offset: -0.066 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-12-11 18:25:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 535.11 Mbit/s
95th percentile per-packet one-way delay: 163.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 535.11 Mbit/s
95th percentile per-packet one-way delay: 163.479 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 15:31:46
End at: 2019-12-11 15:32:16
Local clock offset: -0.189 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-12-11 18:25:51
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 649.97 Mbit/s
  95th percentile per-packet one-way delay: 211.749 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 649.97 Mbit/s
  95th percentile per-packet one-way delay: 211.749 ms
  Loss rate: 0.87%
Run 2: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 655.70 Mbps)
- Flow 1 egress (mean 649.97 Mbps)

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

- Flow 1 (95th percentile 211.75 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:08:19
End at: 2019-12-11 16:08:49
Local clock offset: -0.194 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-12-11 18:25:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.47 Mbit/s
95th percentile per-packet one-way delay: 197.196 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 604.47 Mbit/s
95th percentile per-packet one-way delay: 197.196 ms
Loss rate: 0.12%
Run 3: Report of Indigo-MusesD — Data Link
Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 16:44:29
End at: 2019-12-11 16:44:59
Local clock offset: -0.371 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-12-11 18:27:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 693.24 Mbit/s
95th percentile per-packet one-way delay: 213.412 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 693.24 Mbit/s
95th percentile per-packet one-way delay: 213.412 ms
Loss rate: 1.02%
Run 4: Report of Indigo-MusesD — Data Link
Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 17:20:28
End at: 2019-12-11 17:20:58
Local clock offset: 0.136 ms
Remote clock offset: 0.241 ms

# Below is generated by plot.py at 2019-12-11 18:27:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.95 Mbit/s
95th percentile per-packet one-way delay: 192.149 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 614.95 Mbit/s
95th percentile per-packet one-way delay: 192.149 ms
Loss rate: 0.40%
Run 5: Report of Indigo-MusesD — Data Link
Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 14:40:16
End at: 2019-12-11 14:40:46
Local clock offset: -0.12 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-12-11 18:27:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.04 Mbit/s
95th percentile per-packet one-way delay: 219.007 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 637.04 Mbit/s
95th percentile per-packet one-way delay: 219.007 ms
Loss rate: 0.34%
Run 1: Report of Indigo-MusesT — Data Link

![Graph showing data transfer rates and packet delay over time.](image)

- **Flow 1 ingress (mean 639.13 Mbit/s)**
- **Flow 1 egress (mean 637.04 Mbit/s)**

*Flow 1 (95th percentile 219.01 ms)*
Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 15:16:17
End at: 2019-12-11 15:16:47
Local clock offset: -0.083 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-12-11 18:34:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 740.59 Mbit/s
95th percentile per-packet one-way delay: 205.571 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 740.59 Mbit/s
95th percentile per-packet one-way delay: 205.571 ms
Loss rate: 0.12%
Run 2: Report of Indigo-MusesT — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 741.49 Mbit/s)  Flow 1 egress (mean 740.59 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 265.57 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 15:52:28
End at: 2019-12-11 15:52:58
Local clock offset: -0.091 ms
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-12-11 18:35:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 746.15 Mbit/s
95th percentile per-packet one-way delay: 194.233 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 746.15 Mbit/s
95th percentile per-packet one-way delay: 194.233 ms
Loss rate: 0.03%
Run 3: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 746.34 Mbit/s)
- Flow 1 egress (mean 746.15 Mbit/s)

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

- Flow 1 (95th percentile 194.23 ms)
Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 16:28:42
End at: 2019-12-11 16:29:12
Local clock offset: -0.31 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-12-11 18:35:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.86 Mbit/s
95th percentile per-packet one-way delay: 231.177 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 588.86 Mbit/s
95th percentile per-packet one-way delay: 231.177 ms
Loss rate: 1.89%
Run 4: Report of Indigo-MusesT — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 600.31 Mbit/s)
- Flow 1 egress (mean 588.86 Mbit/s)

Graph 2: Per-packet one way delay (ms)
- Flow 1 (95th percentile 231.18 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 17:04:30
End at: 2019-12-11 17:05:00
Local clock offset: -0.235 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 763.52 Mbit/s
95th percentile per-packet one-way delay: 208.803 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 763.52 Mbit/s
95th percentile per-packet one-way delay: 208.803 ms
Loss rate: 0.52%
Run 5: Report of Indigo-MusesT — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 767.52 Mbps)
  - Flow 1 egress (mean 763.52 Mbps)

- **Per packet one-way delay (ms)**
  - Flow 1 (95th percentile 208.80 ms)
Run 1: Statistics of LEDBAT

Start at: 2019-12-11 14:34:31
End at: 2019-12-11 14:35:01
Local clock offset: -0.062 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 133.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 133.452 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2019-12-11 15:10:04
End at: 2019-12-11 15:10:34
Local clock offset: 0.349 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 137.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 137.034 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2019-12-11 15:46:19
End at: 2019-12-11 15:46:49
Local clock offset: 0.107 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 134.280 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 134.280 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 4: Statistics of LEDBAT

Start at: 2019-12-11 16:22:57
End at: 2019-12-11 16:23:27
Local clock offset: -0.259 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 5.38 Mbit/s
  95th percentile per-packet one-way delay: 132.228 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 5.38 Mbit/s
  95th percentile per-packet one-way delay: 132.228 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2019-12-11 16:58:48
End at: 2019-12-11 16:59:18
Local clock offset: -0.375 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 133.319 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 133.319 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph of throughput and delay over time](image-url)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 14:38:31
End at: 2019-12-11 14:39:01
Local clock offset: -0.169 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-12-11 18:36:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.49 Mbit/s
95th percentile per-packet one-way delay: 151.874 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 632.49 Mbit/s
95th percentile per-packet one-way delay: 151.874 ms
Loss rate: 0.05%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 15:14:31
End at: 2019-12-11 15:15:01
Local clock offset: -0.071 ms
Remote clock offset: -0.42 ms

# Below is generated by plot.py at 2019-12-11 18:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 684.00 Mbit/s
95th percentile per-packet one-way delay: 170.839 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 684.00 Mbit/s
95th percentile per-packet one-way delay: 170.839 ms
Loss rate: 0.30%
Run 2: Report of Muses_DecisionTree — Data Link

![Graph 1](image1.png)

- Flow 1 ingress (mean 686.03 Mbit/s)
- Flow 1 egress (mean 684.00 Mbit/s)

![Graph 2](image2.png)

- Flow 1 (95th percentile 170.84 ms)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 15:50:51
End at: 2019-12-11 15:51:21
Local clock offset: -0.171 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2019-12-11 18:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.02 Mbit/s
95th percentile per-packet one-way delay: 138.887 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 529.02 Mbit/s
95th percentile per-packet one-way delay: 138.887 ms
Loss rate: 0.01%
Run 3: Report of Muses Decision Tree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 16:27:32
End at: 2019-12-11 16:28:02
Local clock offset: 0.005 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-12-11 18:37:04
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.10 Mbit/s
  95th percentile per-packet one-way delay: 132.955 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.10 Mbit/s
  95th percentile per-packet one-way delay: 132.955 ms
  Loss rate: 0.00%
Run 4: Report of Muses_DecisionTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 17:02:54
End at: 2019-12-11 17:03:24
Local clock offset: -0.279 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-12-11 18:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.03 Mbit/s
95th percentile per-packet one-way delay: 139.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 515.03 Mbit/s
95th percentile per-packet one-way delay: 139.493 ms
Loss rate: 0.00%
Run 5: Report of Muses

DecisionTree — Data Link

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

Flow 1 ingress (mean 515.02 Mbit/s)  Flow 1 egress (mean 515.03 Mbit/s)

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

Flow 1 (95th percentile 139.49 ms)
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 14:28:50
End at: 2019-12-11 14:29:20
Local clock offset: -0.106 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-12-11 18:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.97 Mbit/s
95th percentile per-packet one-way delay: 157.570 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 590.97 Mbit/s
95th percentile per-packet one-way delay: 157.570 ms
Loss rate: 0.07%
Run 1: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing throughput and delay over time for Flow 1]

**Throughput (Mbps)**

- **Flow 1 ingress (mean 591.37 Mbps)**
- **Flow 1 egress (mean 590.97 Mbps)**

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

- **Flow 1 (95th percentile 157.57 ms)**
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 15:04:14
End at: 2019-12-11 15:04:44
Local clock offset: -0.019 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-12-11 18:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.63 Mbit/s
95th percentile per-packet one-way delay: 204.670 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 500.63 Mbit/s
95th percentile per-packet one-way delay: 204.670 ms
Loss rate: 1.36%
Run 2: Report of Muses\_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 15:40:24
End at: 2019-12-11 15:40:54
Local clock offset: -0.132 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-12-11 18:44:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 617.53 Mbit/s
95th percentile per-packet one-way delay: 190.067 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 617.53 Mbit/s
95th percentile per-packet one-way delay: 190.067 ms
Loss rate: 0.30%
Run 3: Report of Muses Decision Tree H0 — Data Link

Graph 1: Throughput (Mbps)

- Flow 1 ingress (mean 619.36 Mbit/s)
- Flow 1 egress (mean 617.53 Mbit/s)

Graph 2: Per packet one way delay (ms)

- Flow 1 (95th percentile 190.07 ms)
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 16:16:54
End at: 2019-12-11 16:17:24
Local clock offset: -0.245 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-12-11 18:44:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.07 Mbit/s
95th percentile per-packet one-way delay: 205.985 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 608.07 Mbit/s
95th percentile per-packet one-way delay: 205.985 ms
Loss rate: 1.23%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing throughput and delay over time for two flows (ingress and egress).]
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-11 16:52:55
End at: 2019-12-11 16:53:25
Local clock offset: -0.47 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-12-11 18:45:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.74 Mbit/s
95th percentile per-packet one-way delay: 198.580 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 615.74 Mbit/s
95th percentile per-packet one-way delay: 198.580 ms
Loss rate: 0.34%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing throughput over time](image)

- Flow 1 ingress (mean 617.80 Mbit/s)
- Flow 1 egress (mean 615.74 Mbit/s)

![Graph showing packet delay over time](image)

- Flow 1 (95th percentile 198.58 ms)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 14:48:04
End at: 2019-12-11 14:48:34
Local clock offset: 0.249 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-12-11 18:45:05
# Datalink statistics

-- Total of 1 flow:
Average throughput: 566.73 Mbit/s
95th percentile per-packet one-way delay: 153.238 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 566.73 Mbit/s
95th percentile per-packet one-way delay: 153.238 ms
Loss rate: 0.00%
Run 1: Report of Muses

DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 15:24:16
End at: 2019-12-11 15:24:46
Local clock offset: -0.164 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-12-11 18:45:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 616.62 Mbit/s
  95th percentile per-packet one-way delay: 159.744 ms
  Loss rate: 0.10%
-- Flow 1:
  Average throughput: 616.62 Mbit/s
  95th percentile per-packet one-way delay: 159.744 ms
  Loss rate: 0.10%
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 16:00:18
End at: 2019-12-11 16:00:48
Local clock offset: -0.148 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-12-11 18:46:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.20 Mbit/s
95th percentile per-packet one-way delay: 165.780 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 634.20 Mbit/s
95th percentile per-packet one-way delay: 165.780 ms
Loss rate: 0.17%
Run 3: Report of Muses_DecisionTreeR0 — Data Link

![Throughput Graph]

![Packet Delay Graph]

Flow 1 ingress (mean 635.26 Mbit/s) — Flow 1 egress (mean 634.29 Mbit/s)

Flow 1 (95th percentile 165.78 ms)
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2019-12-11 16:36:38
End at: 2019-12-11 16:37:08
Local clock offset: -0.256 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-12-11 18:48:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.16 Mbit/s
95th percentile per-packet one-way delay: 156.947 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 493.16 Mbit/s
95th percentile per-packet one-way delay: 156.947 ms
Loss rate: 0.02%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

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

- **Flow 1 ingress (mean 493.29 Mbit/s)**
- **Flow 1 egress (mean 493.16 Mbit/s)**

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

- **Flow 1 (95th percentile 156.95 ms)**
Run 5: Statistics of Muses\_DecisionTreeRO

Start at: 2019-12-11 17:12:32  
End at: 2019-12-11 17:13:02  
Local clock offset: -0.077 ms  
Remote clock offset: -0.097 ms  

# Below is generated by plot.py at 2019-12-11 18:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 632.75 Mbit/s  
95th percentile per-packet one-way delay: 185.760 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 632.75 Mbit/s  
95th percentile per-packet one-way delay: 185.760 ms  
Loss rate: 0.23%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

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

- **Flow 1 ingress** (mean 634.24 Mbit/s)
- **Flow 1 egress** (mean 632.75 Mbit/s)

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

- **Flow 1** (95th percentile 185.76 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 14:27:15
End at: 2019-12-11 14:27:45
Local clock offset: -0.122 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-12-11 18:53:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.22 Mbit/s
95th percentile per-packet one-way delay: 260.970 ms
Loss rate: 7.53%
-- Flow 1:
Average throughput: 324.22 Mbit/s
95th percentile per-packet one-way delay: 260.970 ms
Loss rate: 7.53%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 15:02:33
End at: 2019-12-11 15:03:03
Local clock offset: -0.092 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-12-11 18:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.40 Mbit/s
95th percentile per-packet one-way delay: 255.953 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 404.40 Mbit/s
95th percentile per-packet one-way delay: 255.953 ms
Loss rate: 4.05%
Run 2: Report of PCC-Allegro — Data Link

![Graphs showing throughput and delay over time.]

- Flow 1 ingress (mean 421.48 Mbit/s)
- Flow 1 egress (mean 404.46 Mbit/s)

- Flow 1 (95th percentile 255.95 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 15:38:48
End at: 2019-12-11 15:39:18
Local clock offset: -0.081 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-12-11 18:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.47 Mbit/s
95th percentile per-packet one-way delay: 241.559 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 380.47 Mbit/s
95th percentile per-packet one-way delay: 241.559 ms
Loss rate: 1.62%
Run 3: Report of PCC-Allegro — Data Link

[Graphs showing throughput and packet loss over time for Flow 1 ingress and egress]
Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 16:15:15
End at: 2019-12-11 16:15:45
Local clock offset: 0.087 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-12-11 18:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.72 Mbit/s
95th percentile per-packet one-way delay: 257.273 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 437.72 Mbit/s
95th percentile per-packet one-way delay: 257.273 ms
Loss rate: 5.65%
Run 4: Report of PCC-Allegro — Data Link

![Graph showing throughput and per packet delay over time for Flow 1 with mean ingress and egress speeds.]

- Flow 1 ingress (mean 464.42 Mbit/s)
- Flow 1 egress (mean 437.72 Mbit/s)
Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 16:51:24
End at: 2019-12-11 16:51:54
Local clock offset: -0.032 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-12-11 18:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.45 Mbit/s
95th percentile per-packet one-way delay: 259.405 ms
Loss rate: 5.37%
-- Flow 1:
Average throughput: 293.45 Mbit/s
95th percentile per-packet one-way delay: 259.405 ms
Loss rate: 5.37%
Run 5: Report of PCC-Allegro — Data Link

![Graph of Throughput and Time](image1)

- Flow 1 ingress (mean 310.09 Mbit/s)
- Flow 1 egress (mean 293.45 Mbit/s)

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

- Flow 1 (95th percentile 259.40 ms)
Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 14:36:57
End at: 2019-12-11 14:37:27
Local clock offset: -0.123 ms
Remote clock offset: -0.478 ms

# Below is generated by plot.py at 2019-12-11 18:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.01 Mbit/s
95th percentile per-packet one-way delay: 238.885 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 250.01 Mbit/s
95th percentile per-packet one-way delay: 238.885 ms
Loss rate: 1.54%
Run 1: Report of PCC-Expr — Data Link

![Graph of Throughput](image1)

![Graph of Ping Latency](image2)

Flow 1 ingress (mean 253.91 Mbit/s)  Flow 1 egress (mean 250.01 Mbit/s)

Flow 1 (95th percentile 238.88 ms)
Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 15:12:59
End at: 2019-12-11 15:13:29
Local clock offset: -0.016 ms
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-12-11 18:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.69 Mbit/s
95th percentile per-packet one-way delay: 241.474 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 229.69 Mbit/s
95th percentile per-packet one-way delay: 241.474 ms
Loss rate: 0.87%
Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 15:49:11
End at: 2019-12-11 15:49:41
Local clock offset: -0.14 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-12-11 19:01:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.06 Mbit/s
95th percentile per-packet one-way delay: 243.915 ms
Loss rate: 5.69%
-- Flow 1:
Average throughput: 317.06 Mbit/s
95th percentile per-packet one-way delay: 243.915 ms
Loss rate: 5.69%
Run 3: Report of PCC-Expr — Data Link

![Graph 1](image1)

**Flow 1 ingress** (mean 336.18 Mb/s)  
**Flow 1 egress** (mean 317.06 Mb/s)

![Graph 2](image2)

**flow 1** (95th percentile 243.91 ms)
Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 16:25:52
End at: 2019-12-11 16:26:22
Local clock offset: -0.275 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.04 Mbit/s
95th percentile per-packet one-way delay: 228.855 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 332.04 Mbit/s
95th percentile per-packet one-way delay: 228.855 ms
Loss rate: 2.30%
Run 4: Report of PCC-Expr — Data Link

[Graph showing throughput over time with two lines representing flow ingress and flow egress.

[Graph showing packet delay over time with a line representing flow 1 (95th percentile 228.85 ms).]
Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 17:01:21
End at: 2019-12-11 17:01:51
Local clock offset: -0.202 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.90 Mbit/s
95th percentile per-packet one-way delay: 247.754 ms
Loss rate: 7.79%
-- Flow 1:
Average throughput: 244.90 Mbit/s
95th percentile per-packet one-way delay: 247.754 ms
Loss rate: 7.79%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 265.57 Mbps)
- Flow 1 egress (mean 244.90 Mbps)

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

- Flow 1 (95th percentile 247.75 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 14:54:24
End at: 2019-12-11 14:54:54
Local clock offset: -0.07 ms
Remote clock offset: -0.391 ms
Run 1: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 0.01 Mbps)**
- **Flow 1 egress (mean 0.01 Mbps)**

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

- **Flow 1 (95th percentile 133.20 ms)**

166
Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 15:30:32
End at: 2019-12-11 15:31:02
Local clock offset: -0.17 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.89 Mbit/s
95th percentile per-packet one-way delay: 132.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.89 Mbit/s
95th percentile per-packet one-way delay: 132.044 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 16:07:04
End at: 2019-12-11 16:07:34
Local clock offset: -0.267 ms
Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 132.362 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 132.362 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

![Graph showing network throughput and packet delay over time for two flows: ingress and egress. The throughput graph shows fluctuations over the 30-second duration, while the packet delay graph shows a more stable pattern.]
Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 16:43:14
End at: 2019-12-11 16:43:44
Local clock offset: -0.382 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.18 Mbit/s
95th percentile per-packet one-way delay: 133.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.18 Mbit/s
95th percentile per-packet one-way delay: 133.014 ms
Loss rate: 0.00%
Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 17:19:13
End at: 2019-12-11 17:19:43
Local clock offset: 0.18 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 65.52 Mbit/s
  95th percentile per-packet one-way delay: 132.493 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 65.52 Mbit/s
  95th percentile per-packet one-way delay: 132.493 ms
  Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

![Graph of data link throughput over time with two flows labeled: Flow 1 ingress (mean 65.51 Mbit/s) and Flow 1 egress (mean 65.52 Mbit/s).]

![Graph of per-packet one-way delay over time with one flow labeled: Flow 1 (95th percentile 132.49 ms).]
Run 1: Statistics of SCReAM

Start at: 2019-12-11 14:30:29
End at: 2019-12-11 14:30:59
Local clock offset: -0.194 ms
Remote clock offset: -0.478 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.999 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.999 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.15 Mbit/s)
- Flow 1 egress (mean 0.15 Mbit/s)

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

- Flow 1 (95th percentile 133.00 ms)
Run 2: Statistics of SCReAM

Start at: 2019-12-11 15:05:52
End at: 2019-12-11 15:06:22
Local clock offset: 0.28 ms
Remote clock offset: -0.782 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 131.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 131.238 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph showing throughput and packet one-way delay for Flow 1 ingress and egress with a mean of 0.19 Mbit/s and 95th percentile of 131.24 ms.]
Run 3: Statistics of SCReAM

Start at: 2019-12-11 15:42:05
End at: 2019-12-11 15:42:35
Local clock offset: -0.189 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.264 ms
Loss rate: 0.00%
Run 4: Statistics of SCReAM

Start at: 2019-12-11 16:18:33
End at: 2019-12-11 16:19:03
Local clock offset: ~0.28 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 133.155 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 133.155 ms
  Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

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

- **Flow 1 ingress (mean 0.15 Mbit/s)**
- **Flow 1 egress (mean 0.15 Mbit/s)**

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

- **Flow 1 (95th percentile 133.16 ms)**
Run 5: Statistics of SCReAM

Start at: 2019-12-11 16:54:36
End at: 2019-12-11 16:55:06
Local clock offset: -0.417 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.241 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.15 Mbps)
- Flow 1 egress (mean 0.15 Mbps)

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

- Flow 1 (95th percentile 133.24 ms)
Run 1: Statistics of Sprout

Start at: 2019-12-11 14:59:56
End at: 2019-12-11 15:00:26
Local clock offset: -0.099 ms
Remote clock offset: 0.392 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 137.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 137.158 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2019-12-11 15:36:07
End at: 2019-12-11 15:36:37
Local clock offset: -0.164 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 133.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 133.116 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 0.53 Mbit/s)
- Flow 1 egress (mean 0.53 Mbit/s)

![Graph 2: Packet delay vs Time](image)

- Flow 1 (95th percentile 133.12 ms)
Run 3: Statistics of Sprout

Start at: 2019-12-11 16:12:38
End at: 2019-12-11 16:13:08
Local clock offset: -0.345 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.54 Mbit/s
  95th percentile per-packet one-way delay: 136.368 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.54 Mbit/s
  95th percentile per-packet one-way delay: 136.368 ms
  Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2019-12-11 16:48:53
End at: 2019-12-11 16:49:23
Local clock offset: -0.397 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 136.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 136.249 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

![Graph of Throughput (Mbps)]

- Flow 1 ingress (mean 0.48 Mbit/s)
- Flow 1 egress (mean 0.48 Mbit/s)

![Graph of Packet one-way delay (ms)]

- Flow 1 (90th percentile 136.25 ms)
Run 5: Statistics of Sprout

Start at: 2019-12-11 17:24:50
End at: 2019-12-11 17:25:20
Local clock offset: 0.301 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 132.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 132.615 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 0.57 Mbit/s)**
- **Flow 1 egress (mean 0.57 Mbit/s)**

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

- **Flow 1 (90th percentile 132.62 ms)**
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 14:57:13
End at: 2019-12-11 14:57:43
Local clock offset: -0.039 ms
Remote clock offset: -0.396 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.95 Mbit/s
95th percentile per-packet one-way delay: 135.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.95 Mbit/s
95th percentile per-packet one-way delay: 135.755 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 15:33:27
End at: 2019-12-11 15:33:57
Local clock offset: -0.111 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.60 Mbit/s
95th percentile per-packet one-way delay: 132.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.60 Mbit/s
95th percentile per-packet one-way delay: 132.941 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 16:09:58
End at: 2019-12-11 16:10:28
Local clock offset: -0.242 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-12-11 19:03:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 206.70 Mbit/s
  95th percentile per-packet one-way delay: 133.170 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 206.70 Mbit/s
  95th percentile per-packet one-way delay: 133.170 ms
  Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

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

Flow 1 ingress (mean 206.70 Mbit/s) vs Flow 1 egress (mean 206.70 Mbit/s)

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

Flow 1 (95th percentile 133.17 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 16:46:11
End at: 2019-12-11 16:46:41
Local clock offset: -0.321 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-12-11 19:03:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.75 Mbit/s
95th percentile per-packet one-way delay: 132.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.75 Mbit/s
95th percentile per-packet one-way delay: 132.934 ms
Loss rate: 0.00%
Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 17:22:07
End at: 2019-12-11 17:22:37
Local clock offset: 0.188 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-12-11 19:04:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.56 Mbit/s
95th percentile per-packet one-way delay: 134.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.56 Mbit/s
95th percentile per-packet one-way delay: 134.353 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 227.56 Mbit/s)  Flow 1 egress (mean 227.56 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

* Flow 1 (95th percentile 134.35 ms)
Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 14:25:45
End at: 2019-12-11 14:26:15
Local clock offset: -0.144 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-12-11 19:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.13 Mbit/s
95th percentile per-packet one-way delay: 133.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 335.13 Mbit/s
95th percentile per-packet one-way delay: 133.483 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

[Graph showing throughput and packet delay over time]
Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 15:01:07
End at: 2019-12-11 15:01:37
Local clock offset: 0.315 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2019-12-11 19:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.30 Mbit/s
95th percentile per-packet one-way delay: 144.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.30 Mbit/s
95th percentile per-packet one-way delay: 144.662 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

![Graph of Throughput](image1)

- Flow 1 ingress (mean 267.29 Mbit/s)
- Flow 1 egress (mean 267.30 Mbit/s)

![Graph of Packet One-Way Delay](image2)

- Flow 1 (95th percentile 144.66 ms)
Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 15:37:18
End at: 2019-12-11 15:37:48
Local clock offset: -0.093 ms
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2019-12-11 19:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.58 Mbit/s
95th percentile per-packet one-way delay: 141.558 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 396.58 Mbit/s
95th percentile per-packet one-way delay: 141.558 ms
Loss rate: 0.33%
Run 3: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 397.89 Mbit/s)
- Flow 1 egress (mean 396.58 Mbit/s)

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

- Flow 1 (95th percentile 141.56 ms)
Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 16:13:48
End at: 2019-12-11 16:14:18
Local clock offset: -0.283 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-12-11 19:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.42 Mbit/s
95th percentile per-packet one-way delay: 144.396 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 307.42 Mbit/s
95th percentile per-packet one-way delay: 144.396 ms
Loss rate: 0.29%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 16:50:03
End at: 2019-12-11 16:50:33
Local clock offset: 0.013 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-12-11 19:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.33 Mbit/s
95th percentile per-packet one-way delay: 139.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.33 Mbit/s
95th percentile per-packet one-way delay: 139.958 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2019-12-11 14:33:09
End at: 2019-12-11 14:33:39
Local clock offset: 0.233 ms
Remote clock offset: -0.462 ms

# Below is generated by plot.py at 2019-12-11 19:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 205.973 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 109.31 Mbit/s
95th percentile per-packet one-way delay: 205.973 ms
Loss rate: 0.01%
Run 1: Report of Verus — Data Link

![Graph showing throughput and delay over time for Flow 1.](image)

- Flow 1 ingress (mean 109.33 Mbit/s)
- Flow 1 egress (mean 109.31 Mbit/s)

- Flow 1 (95th percentile 205.97 ms)
Run 2: Statistics of Verus

Start at: 2019-12-11 15:08:47
End at: 2019-12-11 15:09:17
Local clock offset: ~0.06 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-12-11 19:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.11 Mbit/s
95th percentile per-packet one-way delay: 170.620 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.11 Mbit/s
95th percentile per-packet one-way delay: 170.620 ms
Loss rate: 0.01%
Run 3: Statistics of Verus

Start at: 2019-12-11 15:45:01
End at: 2019-12-11 15:45:31
Local clock offset: -0.191 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-12-11 19:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.39 Mbit/s
95th percentile per-packet one-way delay: 170.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.39 Mbit/s
95th percentile per-packet one-way delay: 170.745 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 81.39 Mbit/s)

Flow 1 egress (mean 81.39 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 170.75 ms)

220
Run 4: Statistics of Verus

Start at: 2019-12-11 16:21:28
End at: 2019-12-11 16:21:58
Local clock offset: 0.036 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-12-11 19:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.40 Mbit/s
95th percentile per-packet one-way delay: 280.979 ms
Loss rate: 9.27%
-- Flow 1:
Average throughput: 196.40 Mbit/s
95th percentile per-packet one-way delay: 280.979 ms
Loss rate: 9.27%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2019-12-11 16:57:31
End at: 2019-12-11 16:58:01
Local clock offset: -0.287 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-12-11 19:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 152.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.13 Mbit/s
95th percentile per-packet one-way delay: 152.556 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 14:52:56
End at: 2019-12-11 14:53:26
Local clock offset: -0.084 ms
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-12-11 19:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.21 Mbit/s
95th percentile per-packet one-way delay: 135.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.21 Mbit/s
95th percentile per-packet one-way delay: 135.651 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 231.21 Mbps)
- Flow 1 egress (mean 231.21 Mbps)

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

- Flow 1 (95th percentile 135.65 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 15:29:00
End at: 2019-12-11 15:29:30
Local clock offset: 0.256 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-12-11 19:10:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.49 Mbit/s
95th percentile per-packet one-way delay: 138.031 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 315.49 Mbit/s
95th percentile per-packet one-way delay: 138.031 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

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

- **Throughput Graph:**
  - Blue dashed line: Flow 1 ingress (mean 315.48 Mbit/s)
  - Blue solid line: Flow 1 egress (mean 315.49 Mbit/s)

- **Delay Graph:**
  - Blue line: Flow 1 (95th percentile 138.03 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 16:05:31
End at: 2019-12-11 16:06:01
Local clock offset: -0.258 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-12-11 19:10:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.33 Mbit/s
95th percentile per-packet one-way delay: 135.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 326.33 Mbit/s
95th percentile per-packet one-way delay: 135.559 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

- Throughput (Mbps)

  - Flow 1 ingress (mean 326.32 Mbps)
  - Flow 1 egress (mean 326.33 Mbps)

- Per packet one way delay (ms)

  - Flow 1 (95th percentile 135.56 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 16:41:42
End at: 2019-12-11 16:42:12
Local clock offset: -0.325 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-12-11 19:10:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.83 Mbit/s
95th percentile per-packet one-way delay: 141.889 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 324.83 Mbit/s
95th percentile per-packet one-way delay: 141.889 ms
Loss rate: 0.23%
Run 4: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 325.57 Mbit/s)  Flow 1 egress (mean 324.83 Mbit/s)

Per packet one way delay (ms)

Flow 1 (50th percentile 141.89 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 17:17:40
End at: 2019-12-11 17:18:10
Local clock offset: 0.215 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2019-12-11 19:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.01 Mbit/s
95th percentile per-packet one-way delay: 140.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 327.01 Mbit/s
95th percentile per-packet one-way delay: 140.555 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

![Graph of throughput and delay](image)

Flow 1 ingress (mean 327.00 Mbit/s)  Flow 1 egress (mean 327.01 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 140.56 ms)
Run 1: Statistics of WebRTC media

Start at: 2019-12-11 14:58:45
End at: 2019-12-11 14:59:15
Local clock offset: -0.03 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-12-11 19:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 133.191 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 133.191 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link

[Graph showing throughput and per-packet end-to-end delay over time for two flows: Flow 1 ingress and Flow 1 egress, with the latter indicating a mean 1.85 Mbps.]
Run 2: Statistics of WebRTC media

Start at: 2019-12-11 15:34:57
End at: 2019-12-11 15:35:27
Local clock offset: -0.216 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-12-11 19:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.206 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2019-12-11 16:11:28
End at: 2019-12-11 16:11:58
Local clock offset: -0.308 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-12-11 19:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.219 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2019-12-11 16:47:43
End at: 2019-12-11 16:48:13
Local clock offset: -0.307 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-12-11 19:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.216 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

---

Graph 1: Throughput (Mbps)

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

---

242
Run 5: Statistics of WebRTC media

Start at: 2019-12-11 17:23:39
End at: 2019-12-11 17:24:09
Local clock offset: 0.207 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-12-11 19:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 132.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 132.715 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link