Pantheon Report

Generated at 2019-07-13 01:45:47 (UTC).
Data path: GCE Iowa on ens4 (remote) → GCE London on ens4 (local).
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 4.15.0-1034-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 @ 2076e1149a241f3edb4365d686df3234bf9561f
third_party/fillp @ 0e5bb722943babcbcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e9a59383b32143cedbdf568e562f4
third_party/indigo @ 2601c92e4a9d68d39c4d4f00ecd6f90c077e64d
third_party/libutp @ b3465b942e8326f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce7731b7ad83da2095537730c746486ca4966
third_party/muses_dtree @ 8bd99f1ff2b107204a92b7249f0c35e15f00
third_party/pantheon-tunnel @ f866d3f58d27af9d42717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d6618b623c091a55f8ce872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac0d8fba9c4eb24f974ab
third_party/proto-quic @ 77961f1a8273a86b42f1bc8143ebc978f3ccff42
third_party/scream-reproduce @ f099118d1421aa3131bf1ff964974e1da3b1d2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea746c650a261149af26a29562593f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Iowa 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>521.50</td>
<td>149.45</td>
<td>0.54</td>
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<td>Copa</td>
<td>5</td>
<td>293.97</td>
<td>60.83</td>
<td>0.34</td>
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<td>TCP Cubic</td>
<td>5</td>
<td>506.85</td>
<td>74.15</td>
<td>0.36</td>
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<td>FillP</td>
<td>5</td>
<td>894.14</td>
<td>77.42</td>
<td>0.43</td>
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<td>829.75</td>
<td>79.73</td>
<td>0.42</td>
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<td>Indigo</td>
<td>5</td>
<td>232.06</td>
<td>48.93</td>
<td>0.33</td>
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<td>Indigo-MusesC3</td>
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<td>543.24</td>
<td>63.14</td>
<td>0.31</td>
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<td>596.94</td>
<td>72.23</td>
<td>0.38</td>
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<td>Indigo-MusesD</td>
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<td>102.04</td>
<td>0.46</td>
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<td>48.37</td>
<td>0.40</td>
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<td>560.34</td>
<td>62.24</td>
<td>0.40</td>
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<td>103.06</td>
<td>0.50</td>
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<td>Muses_DecisionTreeR0</td>
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<td>560.46</td>
<td>63.28</td>
<td>0.36</td>
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<td>5</td>
<td>404.14</td>
<td>149.99</td>
<td>2.71</td>
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<td>PCC-Expr</td>
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<td>277.36</td>
<td>140.63</td>
<td>1.70</td>
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<td>0.22</td>
<td>47.10</td>
<td>0.34</td>
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<td>9.58</td>
<td>47.39</td>
<td>0.33</td>
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<td>47.74</td>
<td>0.33</td>
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<td>431.17</td>
<td>58.61</td>
<td>0.32</td>
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<td>Verus</td>
<td>5</td>
<td>154.39</td>
<td>146.75</td>
<td>0.70</td>
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<td>PCC-Vivace</td>
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<td>50.70</td>
<td>0.37</td>
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<td>WebRTC media</td>
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<td>0.05</td>
<td>47.27</td>
<td>0.00</td>
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Run 1: Statistics of TCP BBR

Start at: 2019-07-12 20:48:07
End at: 2019-07-12 20:48:37
Local clock offset: 0.002 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-07-12 23:54:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.25 Mbit/s
95th percentile per-packet one-way delay: 142.120 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 529.25 Mbit/s
95th percentile per-packet one-way delay: 142.120 ms
Loss rate: 0.40%
Run 1: Report of TCP BBR — Data Link

![Graph 1](#)  
**Flow 1 ingress (mean 529.67 Mbit/s)**  
**Flow 1 egress (mean 529.23 Mbit/s)**

![Graph 2](#)  
**Flow 1 (95th percentile 142.12 ms)**
Run 2: Statistics of TCP BBR

Start at: 2019-07-12 21:23:05
Local clock offset: 0.001 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2019-07-12 23:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.32 Mbit/s
95th percentile per-packet one-way delay: 148.245 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 534.32 Mbit/s
95th percentile per-packet one-way delay: 148.245 ms
Loss rate: 0.81%
Run 2: Report of TCP BBR — Data Link

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**Graph 1:**
- *Y-axis:* Throughput (Mbps)
- *X-axis:* Time (s)
- *Legend:*
  - Dotted line: Flow 1 ingress (mean 536.98 Mbps)
  - Solid line: Flow 1 egress (mean 534.32 Mbps)

**Graph 2:**
- *Y-axis:* Per packet one way delay (ms)
- *X-axis:* Time (s)
- *Legend:* Flow 1 (95th percentile 148.25 ms)
Run 3: Statistics of TCP BBR

Start at: 2019-07-12 21:58:01
End at: 2019-07-12 21:58:31
Local clock offset: 0.026 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2019-07-12 23:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.49 Mbit/s
95th percentile per-packet one-way delay: 165.381 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 486.49 Mbit/s
95th percentile per-packet one-way delay: 165.381 ms
Loss rate: 0.53%
Run 4: Statistics of TCP BBR

Start at: 2019-07-12 22:32:49
End at: 2019-07-12 22:33:19
Local clock offset: 0.013 ms
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2019-07-12 23:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.05 Mbit/s
95th percentile per-packet one-way delay: 143.328 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 531.05 Mbit/s
95th percentile per-packet one-way delay: 143.328 ms
Loss rate: 0.43%
Run 4: Report of TCP BBR — Data Link

![Graph of Throughput (Mbps) over time](image1)

- **Flow 1 ingress (mean 531.66 Mbit/s)**
- **Flow 1 egress (mean 531.05 Mbit/s)**

![Graph of Round-trip time (ms) over time](image2)

- **Flow 1 (95th percentile 143.33 ms)**
Run 5: Statistics of TCP BBR

Start at: 2019-07-12 23:07:34
End at: 2019-07-12 23:08:04
Local clock offset: 0.035 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2019-07-12 23:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.41 Mbit/s
95th percentile per-packet one-way delay: 148.173 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 526.41 Mbit/s
95th percentile per-packet one-way delay: 148.173 ms
Loss rate: 0.54%
Run 5: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2019-07-12 21:05:16
End at: 2019-07-12 21:05:46
Local clock offset: -0.01 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-07-12 23:55:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.47 Mbit/s
95th percentile per-packet one-way delay: 56.760 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 310.47 Mbit/s
95th percentile per-packet one-way delay: 56.760 ms
Loss rate: 0.33%
Run 1: Report of Copa — Data Link

![Graph of throughput over time]

![Graph of packet delay over time]

Legend:
- Flow 1 ingress (mean 310.52 Mbit/s)
- Flow 1 egress (mean 310.47 Mbit/s)

Flow 1 (95th percentile 56.76 ms)
Run 2: Statistics of Copa

Start at: 2019-07-12 21:40:12
End at: 2019-07-12 21:40:42
Local clock offset: -0.028 ms
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2019-07-12 23:55:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.21 Mbit/s
95th percentile per-packet one-way delay: 58.530 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 308.21 Mbit/s
95th percentile per-packet one-way delay: 58.530 ms
Loss rate: 0.33%
Run 2: Report of Copa — Data Link

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

- Flow 1 ingress (mean 308.27 Mbit/s)
- Flow 1 egress (mean 308.21 Mbit/s)
- Flow 1 (95th percentile 58.53 ms)
Run 3: Statistics of Copa

Start at: 2019-07-12 22:15:10
End at: 2019-07-12 22:15:40
Local clock offset: 0.025 ms
Remote clock offset: -0.326 ms

# Below is generated by plot.py at 2019-07-12 23:55:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 57.238 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 57.238 ms
Loss rate: 0.31%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

End at: 2019-07-12 22:50:28
Local clock offset: 0.027 ms
Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2019-07-13 00:02:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.11 Mbit/s
95th percentile per-packet one-way delay: 70.341 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 253.11 Mbit/s
95th percentile per-packet one-way delay: 70.341 ms
Loss rate: 0.37%
Run 4: Report of Copa — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 253.24 Mbit/s)
- Flow 1 egress (mean 253.11 Mbit/s)

![Per-packet delay Graph](image2)

- Flow 1 (95th percentile 70.34 ms)
Run 5: Statistics of Copa

Start at: 2019-07-12 23:24:56
End at: 2019-07-12 23:25:26
Local clock offset: -0.02 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-07-13 00:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.31 Mbit/s
95th percentile per-packet one-way delay: 61.303 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 291.31 Mbit/s
95th percentile per-packet one-way delay: 61.303 ms
Loss rate: 0.34%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 291.40 Mbps)
- Flow 1 egress (mean 291.31 Mbps)

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

- Flow 1 (95th percentile 61.30 ms)
Run 1: Statistics of TCP Cubic

Start at: 2019-07-12 21:06:51
End at: 2019-07-12 21:07:21
Local clock offset: 0.027 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-07-13 00:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.97 Mbit/s
95th percentile per-packet one-way delay: 73.772 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 487.97 Mbit/s
95th percentile per-packet one-way delay: 73.772 ms
Loss rate: 0.44%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2019-07-12 21:41:47
End at: 2019-07-12 21:42:17
Local clock offset: -0.008 ms
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2019-07-13 00:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.46 Mbit/s
95th percentile per-packet one-way delay: 66.923 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 467.46 Mbit/s
95th percentile per-packet one-way delay: 66.923 ms
Loss rate: 0.41%
Run 2: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 467.91 Mbit/s)**
- **Flow 1 egress (mean 467.46 Mbit/s)**

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

- **Flow 1 (95th percentile 66.92 ms)**
Run 3: Statistics of TCP Cubic

Start at: 2019-07-12 22:16:44
End at: 2019-07-12 22:17:14
Local clock offset: 0.012 ms
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2019-07-13 00:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.78 Mbit/s
95th percentile per-packet one-way delay: 87.982 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 534.78 Mbit/s
95th percentile per-packet one-way delay: 87.982 ms
Loss rate: 0.35%
Run 3: Report of TCP Cubic — Data Link

![Graphs showing throughput and packet delay over time for TCP Cubic flows.]

- Throughput graph with two lines indicating Flow 1 ingress (mean 534.99 Mb/s) and Flow 1 egress (mean 534.78 Mb/s).
- Packet delay graph showing variability with Flow 1 having a 95th percentile delay of 87.98 ms.
Run 4: Statistics of TCP Cubic

End at: 2019-07-12 22:51:58
Local clock offset: 0.03 ms
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2019-07-13 00:03:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.13 Mbit/s
95th percentile per-packet one-way delay: 69.487 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 515.13 Mbit/s
95th percentile per-packet one-way delay: 69.487 ms
Loss rate: 0.29%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 23:26:29
End at: 2019-07-12 23:26:59
Local clock offset: -0.058 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-07-13 00:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.93 Mbit/s
95th percentile per-packet one-way delay: 72.607 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 528.93 Mbit/s
95th percentile per-packet one-way delay: 72.607 ms
Loss rate: 0.29%
Run 5: Report of TCP Cubic — Data Link

![TCP Cubic Throughput Chart](image1)

![TCP Cubic Latency Chart](image2)
Run 1: Statistics of FillP

End at: 2019-07-12 20:46:53
Local clock offset: -0.009 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-07-13 00:12:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 916.64 Mbit/s
95th percentile per-packet one-way delay: 59.343 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 916.64 Mbit/s
95th percentile per-packet one-way delay: 59.343 ms
Loss rate: 0.40%
Run 1: Report of FillP — Data Link

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

- Flow 1 ingress (mean 917.34 Mbps)
- Flow 1 egress (mean 916.64 Mbps)

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

- Flow 1 (95th percentile 59.34 ms)
Run 2: Statistics of FillP

End at: 2019-07-12 21:21:50
Local clock offset: -0.381 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-07-13 00:21:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 909.92 Mbit/s
95th percentile per-packet one-way delay: 81.392 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 909.92 Mbit/s
95th percentile per-packet one-way delay: 81.392 ms
Loss rate: 0.36%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2019-07-12 21:56:19
End at: 2019-07-12 21:56:49
Local clock offset: -0.051 ms
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2019-07-13 00:21:32
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 909.80 Mbit/s
  95th percentile per-packet one-way delay: 58.673 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 909.80 Mbit/s
  95th percentile per-packet one-way delay: 58.673 ms
  Loss rate: 0.39%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2019-07-12 22:31:08
End at: 2019-07-12 22:31:38
Local clock offset: 0.007 ms
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2019-07-13 00:21:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 860.39 Mbit/s
95th percentile per-packet one-way delay: 94.306 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 860.39 Mbit/s
95th percentile per-packet one-way delay: 94.306 ms
Loss rate: 0.50%
Run 4: Report of FillP — Data Link

![Graph showing throughput and latency over time for different traffic flows.](image-url)
Run 5: Statistics of FillP

Start at: 2019-07-12 23:05:53
End at: 2019-07-12 23:06:24
Local clock offset: -0.001 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2019-07-13 00:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 873.93 Mbit/s
95th percentile per-packet one-way delay: 93.407 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 873.93 Mbit/s
95th percentile per-packet one-way delay: 93.407 ms
Loss rate: 0.51%
Run 5: Report of FillP — Data Link

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

*Flow 1 ingress (mean 875.63 Mbps)  Flow 1 egress (mean 873.93 Mbps)*

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

*Flow 1 (95th percentile 93.41 ms)*
Run 1: Statistics of FillP-Sheep

Start at: 2019-07-12 20:38:17
End at: 2019-07-12 20:38:47
Local clock offset: 0.017 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-07-13 00:21:49
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 767.94 Mbit/s
  95th percentile per-packet one-way delay: 72.298 ms
  Loss rate: 0.40%
-- Flow 1:
  Average throughput: 767.94 Mbit/s
  95th percentile per-packet one-way delay: 72.298 ms
  Loss rate: 0.40%
Run 1: Report of FillP-Sheep — Data Link
Run 2: Statistics of FillP-Sheep

Start at: 2019-07-12 21:12:41
End at: 2019-07-12 21:13:11
Local clock offset: -0.005 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-07-13 00:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 812.18 Mbit/s
95th percentile per-packet one-way delay: 69.536 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 812.18 Mbit/s
95th percentile per-packet one-way delay: 69.536 ms
Loss rate: 0.37%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2019-07-12 21:47:37
End at: 2019-07-12 21:48:07
Local clock offset: 0.016 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-07-13 00:22:27
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 874.02 Mbit/s
  95th percentile per-packet one-way delay: 93.134 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 874.02 Mbit/s
  95th percentile per-packet one-way delay: 93.134 ms
  Loss rate: 0.41%
Run 3: Report of FillP-Sheep — Data Link

![Graph showing throughput over time](image)

**Throughput (Mb/s)**

- **Flow 1 Ingress (mean 874.88 Mb/s)**
- **Flow 1 Egress (mean 874.02 Mb/s)**

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

**Packet Delay (ms)**

- **Flow 1 (95th percentile 93.13 ms)**

50
Run 4: Statistics of FillP-Sheep

End at: 2019-07-12 22:23:09
Local clock offset: 0.394 ms
Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-07-13 00:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 851.78 Mbit/s
95th percentile per-packet one-way delay: 77.538 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 851.78 Mbit/s
95th percentile per-packet one-way delay: 77.538 ms
Loss rate: 0.40%
Run 4: Report of FillP-Sheep — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Round-Trip Time (ms)]
Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 22:57:17
End at: 2019-07-12 22:57:47
Local clock offset: 0.007 ms
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 842.82 Mbit/s
95th percentile per-packet one-way delay: 86.152 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 842.82 Mbit/s
95th percentile per-packet one-way delay: 86.152 ms
Loss rate: 0.50%
Run 5: Report of FillP-Sheep — Data Link

![Graph 1](image1)

*Flow 1 ingress (mean 844.36 Mbit/s)  Flow 1 egress (mean 842.82 Mbit/s)*

![Graph 2](image2)

*Flow 1 (95th percentile 86.15 ms)*
Run 1: Statistics of Indigo

Start at: 2019-07-12 21:11:13
End at: 2019-07-12 21:11:43
Local clock offset: -0.024 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.08 Mbit/s
95th percentile per-packet one-way delay: 48.766 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 234.08 Mbit/s
95th percentile per-packet one-way delay: 48.766 ms
Loss rate: 0.32%
Run 1: Report of Indigo — Data Link

- Throughput (Mbps)
- Time (s)

Flow 1 ingress (mean 234.07 Mbit/s)
Flow 1 egress (mean 234.08 Mbit/s)

Per packet one way delay (ms)

Flow 1 (90th percentile 48.77 ms)
Run 2: Statistics of Indigo

Start at: 2019-07-12 21:46:09
End at: 2019-07-12 21:46:39
Local clock offset: 0.004 ms
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.69 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 231.69 Mbit/s
95th percentile per-packet one-way delay: 50.909 ms
Loss rate: 0.32%
Run 2: Report of Indigo — Data Link

![Throughput vs Time Graph](image1)

![Packet Delay Graph](image2)

Flow 1 ingress (mean 231.69 Mbit/s)  
Flow 1 egress (mean 231.69 Mbit/s)

Flow 1 (95th percentile 50.91 ms)
Run 3: Statistics of Indigo

Local clock offset: 0.032 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.59 Mbit/s
95th percentile per-packet one-way delay: 48.562 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 232.59 Mbit/s
95th percentile per-packet one-way delay: 48.562 ms
Loss rate: 0.32%
Run 3: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 232.59 Mbit/s)
- Flow 1 egress (mean 232.59 Mbit/s)

Flow 1 (95th percentile 48.56 ms)
Run 4: Statistics of Indigo

End at: 2019-07-12 22:56:19
Local clock offset: 0.027 ms
Remote clock offset: -0.387 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.41 Mbit/s
95th percentile per-packet one-way delay: 47.721 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 229.41 Mbit/s
95th percentile per-packet one-way delay: 47.721 ms
Loss rate: 0.35%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2019-07-12 23:30:49
End at: 2019-07-12 23:31:19
Local clock offset: -0.042 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.54 Mbit/s
95th percentile per-packet one-way delay: 48.689 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 232.54 Mbit/s
95th percentile per-packet one-way delay: 48.689 ms
Loss rate: 0.32%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 20:49:42
End at: 2019-07-12 20:50:12
Local clock offset: ~0.035 ms
Remote clock offset: ~0.197 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.40 Mbit/s
95th percentile per-packet one-way delay: 58.618 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 554.40 Mbit/s
95th percentile per-packet one-way delay: 58.618 ms
Loss rate: 0.41%
Run 1: Report of Indigo-MusesC3 — Data Link
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-12 21:24:39
End at: 2019-07-12 21:25:09
Local clock offset: 0.002 ms
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2019-07-13 00:37:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 455.11 Mbit/s
95th percentile per-packet one-way delay: 62.756 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 455.11 Mbit/s
95th percentile per-packet one-way delay: 62.756 ms
Loss rate: 0.04%
Run 2: Report of Indigo-MusesC3 — Data Link

![Graph of Throughput](image1)

- Flow 1 ingress (mean 454.27 Mbit/s)
- Flow 1 egress (mean 455.11 Mbit/s)

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

- Flow 1 (95th percentile 62.76 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-12 21:59:34
End at: 2019-07-12 22:00:04
Local clock offset: -0.0 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-07-13 00:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.84 Mbit/s
95th percentile per-packet one-way delay: 63.867 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 567.84 Mbit/s
95th percentile per-packet one-way delay: 63.867 ms
Loss rate: 0.29%
Run 3: Report of Indigo-MusesC3 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 567.61 Mbit/s)
Flow 1 egress (mean 567.84 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 63.87 ms)
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 22:34:24
End at: 2019-07-12 22:34:54
Local clock offset: 0.4 ms
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2019-07-13 00:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.02 Mbit/s
95th percentile per-packet one-way delay: 63.317 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 554.02 Mbit/s
95th percentile per-packet one-way delay: 63.317 ms
Loss rate: 0.41%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph showing throughput and delay](image-url)
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 23:09:08
End at: 2019-07-12 23:09:38
Local clock offset: -0.011 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-07-13 00:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.81 Mbit/s
95th percentile per-packet one-way delay: 67.119 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 584.81 Mbit/s
95th percentile per-packet one-way delay: 67.119 ms
Loss rate: 0.40%
Run 5: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1 ingress (mean 585.21 Mbps)**
- **Flow 1 egress (mean 584.81 Mbps)**

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

- **Flow 1 (95th percentile 67.12 ms)**
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-12 20:42:36
End at: 2019-07-12 20:43:06
Local clock offset: -0.037 ms
Remote clock offset: -0.155 ms
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-12 21:17:05
End at: 2019-07-12 21:17:35
Local clock offset: -0.014 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-07-13 00:42:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.88 Mbit/s
95th percentile per-packet one-way delay: 71.847 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 597.88 Mbit/s
95th percentile per-packet one-way delay: 71.847 ms
Loss rate: 0.37%
Run 2: Report of Indigo-MusesC5 — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress (mean 598.09 Mbit/s)**
- **Flow 1 egress (mean 597.88 Mbit/s)**

**Packet one way delay (ms)**

- **Flow 1 (95th percentile 71.85 ms)**
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-12 21:52:03
End at: 2019-07-12 21:52:33
Local clock offset: -0.025 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2019-07-13 00:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.95 Mbit/s
95th percentile per-packet one-way delay: 72.348 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 596.95 Mbit/s
95th percentile per-packet one-way delay: 72.348 ms
Loss rate: 0.37%
Run 3: Report of Indigo-MusesC5 — Data Link
Run 4: Statistics of Indigo-MusesC5

End at: 2019-07-12 22:27:34
Local clock offset: 0.004 ms
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2019-07-13 00:43:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.14 Mbit/s
95th percentile per-packet one-way delay: 71.728 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 596.14 Mbit/s
95th percentile per-packet one-way delay: 71.728 ms
Loss rate: 0.36%
Run 4: Report of Indigo-MusesC5 — Data Link

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

- Flow 1 ingress (mean 596.28 Mbit/s)
- Flow 1 egress (mean 596.14 Mbit/s)

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

- Flow 1 (95th percentile 71.73 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 23:01:43
End at: 2019-07-12 23:02:13
Local clock offset: 0.034 ms
Remote clock offset: -0.373 ms

# Below is generated by plot.py at 2019-07-13 00:46:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.78 Mbit/s
95th percentile per-packet one-way delay: 73.016 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 596.78 Mbit/s
95th percentile per-packet one-way delay: 73.016 ms
Loss rate: 0.40%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-12 21:01:03
End at: 2019-07-12 21:01:33
Local clock offset: 0.009 ms
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-07-13 00:46:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.03 Mbit/s
95th percentile per-packet one-way delay: 77.747 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 520.03 Mbit/s
95th percentile per-packet one-way delay: 77.747 ms
Loss rate: 0.47%
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-12 21:36:01
End at: 2019-07-12 21:36:31
Local clock offset: 0.029 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-07-13 00:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.53 Mbit/s
95th percentile per-packet one-way delay: 75.027 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 517.53 Mbit/s
95th percentile per-packet one-way delay: 75.027 ms
Loss rate: 0.48%
Run 2: Report of Indigo-MusesD — Data Link

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

- **Throughput**: The graph illustrates the throughput in Mbps over time. The two curves represent different data flows: one for ingress (mean 518.29 Mbps) and one for egress (mean 517.53 Mbps).
- **Delay**: The second graph shows the per-packet one-way delay in ms. The data flow 1 is highlighted with a 95th percentile of 75.03 ms.
Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-12 22:10:57
End at: 2019-07-12 22:11:27
Local clock offset: 0.022 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2019-07-13 00:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.40 Mbit/s
95th percentile per-packet one-way delay: 68.032 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 519.40 Mbit/s
95th percentile per-packet one-way delay: 68.032 ms
Loss rate: 0.41%
Run 3: Report of Indigo-MusesD — Data Link

![Graph showing throughput and delay over time for data link.]
Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 22:45:47
End at: 2019-07-12 22:46:17
Local clock offset: 0.027 ms
Remote clock offset: -0.367 ms

# Below is generated by plot.py at 2019-07-13 00:47:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.46 Mbit/s
95th percentile per-packet one-way delay: 72.855 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 510.46 Mbit/s
95th percentile per-packet one-way delay: 72.855 ms
Loss rate: 0.26%
Run 4: Report of Indigo-MusesD — Data Link

![Graph showing throughput and packet one-way delay over time.](image-url)
Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 23:20:44
End at: 2019-07-12 23:21:14
Local clock offset: -0.017 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-07-13 00:51:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.57 Mbit/s
95th percentile per-packet one-way delay: 72.288 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 518.57 Mbit/s
95th percentile per-packet one-way delay: 72.288 ms
Loss rate: 0.40%
Run 5: Report of Indigo-MusesD — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingress and egress with mean rates of 518.92 Mbit/s and 518.57 Mbit/s respectively.](image)

![Graph showing per-packet one-way delay over time for Flow 1 with 95th percentile of 72.29 ms.](image)
Run 1: Statistics of Indigo-MusesT

Local clock offset: -0.009 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-07-13 00:54:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.79 Mbit/s
95th percentile per-packet one-way delay: 103.577 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 603.79 Mbit/s
95th percentile per-packet one-way delay: 103.577 ms
Loss rate: 0.38%
Run 1: Report of Indigo-MusesT — Data Link

---

**Throughput vs Time**

*Flow 1 ingress (mean 604.05 Mbit/s)*

*Flow 1 egress (mean 603.79 Mbit/s)*

---

**Per packet one way delay vs Time**

*Flow 1 (95th percentile 103.58 ms)*

---

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Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-12 21:30:17
End at: 2019-07-12 21:30:47
Local clock offset: ~0.03 ms
Remote clock offset: ~0.227 ms

# Below is generated by plot.py at 2019-07-13 00:54:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 590.01 Mbit/s
  95th percentile per-packet one-way delay: 99.899 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 590.01 Mbit/s
  95th percentile per-packet one-way delay: 99.899 ms
  Loss rate: 0.53%
Run 2: Report of Indigo-MusesT — Data Link

![Graph 1](#)  
Line chart showing throughput over time.

![Graph 2](#)  
Line chart showing per-packet one-way delay over time.

Flow 1 ingress (mean 591.13 Mbit/s)  
Flow 1 egress (mean 590.01 Mbit/s)  
Flow 1 (95th percentile 99.90 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-12 22:05:17
End at: 2019-07-12 22:05:47
Local clock offset: -0.024 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-07-13 00:57:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.53 Mbit/s
95th percentile per-packet one-way delay: 101.572 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 611.53 Mbit/s
95th percentile per-packet one-way delay: 101.572 ms
Loss rate: 0.43%
Run 3: Report of Indigo-MusesT — Data Link

Throughput (kbps)

Time (s)

Flow 1 ingress (mean 612.10 Mbit/s)  
Flow 1 egress (mean 611.53 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 101.57 ms)
Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 22:40:07
End at: 2019-07-12 22:40:37
Local clock offset: 0.025 ms
Remote clock offset: -0.357 ms

# Below is generated by plot.py at 2019-07-13 00:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 626.44 Mbit/s
95th percentile per-packet one-way delay: 99.952 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 626.44 Mbit/s
95th percentile per-packet one-way delay: 99.952 ms
Loss rate: 0.47%
Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 23:14:56
End at: 2019-07-12 23:15:26
Local clock offset: 0.023 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-07-13 00:57:44
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 632.59 Mbit/s
  95th percentile per-packet one-way delay: 105.220 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 632.59 Mbit/s
  95th percentile per-packet one-way delay: 105.220 ms
  Loss rate: 0.47%
Run 1: Statistics of LEDBAT

Start at: 2019-07-12 20:39:56
End at: 2019-07-12 20:40:26
Local clock offset: -0.029 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-07-13 00:57:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 47.900 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 47.900 ms
Loss rate: 0.01%
Run 1: Report of LEDBAT — Data Link

![Throughput Graph](image)

- **Flow 1 ingress (mean 35.43 Mbit/s)**
- **Flow 1 egress (mean 35.54 Mbit/s)**

![Per-packet round-trip delay](image)

- **Flow 1 (95th percentile 47.90 ms)**

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Run 2: Statistics of LEDBAT

Start at: 2019-07-12 21:14:20
End at: 2019-07-12 21:14:50
Local clock offset: -0.059 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2019-07-13 00:57:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.09 Mbit/s
95th percentile per-packet one-way delay: 48.750 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 36.09 Mbit/s
95th percentile per-packet one-way delay: 48.750 ms
Loss rate: 0.13%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2019-07-12 21:49:18
End at: 2019-07-12 21:49:48
Local clock offset: 0.341 ms
Remote clock offset: -0.278 ms

# Below is generated by plot.py at 2019-07-13 00:57:44
# Datalink statistics
--- Total of 1 flow:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 48.004 ms
Loss rate: 0.62%
--- Flow 1:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 48.004 ms
Loss rate: 0.62%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2019-07-12 22:24:19
End at: 2019-07-12 22:24:49
Local clock offset: 0.038 ms
Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-07-13 00:57:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 48.907 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 48.907 ms
Loss rate: 0.63%
Run 4: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 41.12 Mbit/s)
- Flow 1 egress (mean 40.99 Mbit/s)

![Graph showing packet loss over time.]

- Flow 1 (95th percentile 48.91 ms)
Run 5: Statistics of LEDBAT

Start at: 2019-07-12 22:58:57
End at: 2019-07-12 22:59:27
Local clock offset: 0.009 ms
Remote clock offset: -0.374 ms

# Below is generated by plot.py at 2019-07-13 00:57:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 48.265 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 48.265 ms
Loss rate: 0.62%
Run 5: Report of LEDBAT — Data Link

![Graph showing throughput over time with two lines indicating ingress and egress data rates.]

![Graph showing packet delay over time with a line indicating the 95th percentile delay.]

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Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 20:41:07
End at: 2019-07-12 20:41:37
Local clock offset: -0.005 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-07-13 00:59:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.71 Mbit/s
95th percentile per-packet one-way delay: 62.602 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 523.71 Mbit/s
95th percentile per-packet one-way delay: 62.602 ms
Loss rate: 0.64%
Run 1: Report of Muses_DecisionTree — Data Link

![Throughput graph]

![Latency graph]
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 21:15:31
End at: 2019-07-12 21:16:01
Local clock offset: 0.039 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2019-07-13 01:02:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.46 Mbit/s
95th percentile per-packet one-way delay: 62.979 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 579.46 Mbit/s
95th percentile per-packet one-way delay: 62.979 ms
Loss rate: 0.39%
Run 2: Report of Muses - DecisionTree — Data Link

![Chart 1: Throughput (Mbps)]

- Flow 1 ingress (mean 579.86 Mbit/s)
- Flow 1 egress (mean 579.46 Mbit/s)

![Chart 2: Pkt/err delay (ms)]

- Flow 1 (95th percentile 62.98 ms)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 21:50:29
End at: 2019-07-12 21:50:59
Local clock offset: -0.022 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-07-13 01:02:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.60 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 567.60 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.52%
Run 3: Report of Muses.DecisionTree — Data Link

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

- **Flow 1 ingress (mean 568.78 Mbit/s)**
- **Flow 1 egress (mean 567.60 Mbit/s)**

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

- **Flow 1 (95th percentile 65.88 ms)**

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Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 22:25:30
End at: 2019-07-12 22:26:00
Local clock offset: 0.027 ms
Remote clock offset: -0.337 ms

# Below is generated by plot.py at 2019-07-13 01:04:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.30 Mbit/s
95th percentile per-packet one-way delay: 57.326 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 560.30 Mbit/s
95th percentile per-packet one-way delay: 57.326 ms
Loss rate: 0.33%
Run 4: Report of Muses Decision Tree — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingress and egress.]
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-07-12 23:00:09
End at: 2019-07-12 23:00:39
Local clock offset: -0.344 ms
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2019-07-13 01:05:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.61 Mbit/s
95th percentile per-packet one-way delay: 62.415 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 570.61 Mbit/s
95th percentile per-packet one-way delay: 62.415 ms
Loss rate: 0.11%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 21:09:44
End at: 2019-07-12 21:10:14
Local clock offset: 0.051 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-07-13 01:05:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 454.64 Mbit/s
95th percentile per-packet one-way delay: 107.477 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 454.64 Mbit/s
95th percentile per-packet one-way delay: 107.477 ms
Loss rate: 0.25%
Run 1: Report of Muses_DecisionTreeH0 — Data Link

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

**Flow 1 ingress (mean 455.40 Mbit/s)**

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

**Flow 1 (95th percentile 107.48 ms)**
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 21:44:39
End at: 2019-07-12 21:45:09
Local clock offset: -0.058 ms
Remote clock offset: -0.259 ms

# Below is generated by plot.py at 2019-07-13 01:06:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.46 Mbit/s
95th percentile per-packet one-way delay: 92.207 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 497.46 Mbit/s
95th percentile per-packet one-way delay: 92.207 ms
Loss rate: 0.63%
Run 2: Report of Muses_DecisionTreeH0 — Data Link

---

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

**Legend:**
- Dashed line: Flow 1 ingress (mean 499.02 Mbit/s)
- Solid line: Flow 1 egress (mean 497.46 Mbit/s)

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

**Legend:**
- Flow 1 (95th percentile 92.21 ms)
Run 3: Statistics of Muses\_DecisionTreeH0

End at: 2019-07-12 22:20:11
Local clock offset: 0.024 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-07-13 01:06:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 469.86 Mbit/s
95th percentile per-packet one-way delay: 98.128 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 469.86 Mbit/s
95th percentile per-packet one-way delay: 98.128 ms
Loss rate: 0.47%
Run 3: Report of Muses DecisionTreeH0 — Data Link

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

- **Flow 1 ingress** (mean: 470.58 Mbps)
- **Flow 1 egress** (mean: 469.86 Mbps)

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

- **Flow 1** (95th percentile: 98.13 ms)
Run 4: Statistics of Muses\_DecisionTreeHO

Start at: 2019-07-12 22:54:18
End at: 2019-07-12 22:54:48
Local clock offset: 0.062 ms
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2019-07-13 01:08:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.44 Mbit/s
95th percentile per-packet one-way delay: 97.300 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 493.44 Mbit/s
95th percentile per-packet one-way delay: 97.300 ms
Loss rate: 0.60%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

![Throughput vs Time Chart](chart1.png)

- **Flow 1 ingress** (mean 494.90 Mbit/s)
- **Flow 1 egress** (mean 493.44 Mbit/s)

![Packet Delay vs Time Chart](chart2.png)

- **Flow 1** (95th percentile 97.30 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-12 23:29:22
End at: 2019-07-12 23:29:52
Local clock offset: -0.047 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2019-07-13 01:09:29
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 416.01 Mbit/s
  95th percentile per-packet one-way delay: 120.196 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 416.01 Mbit/s
  95th percentile per-packet one-way delay: 120.196 ms
  Loss rate: 0.55%
Run 5: Report of Muses DecisionTreeH0 — Data Link

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

![Graph 2: Per Packet One Way Delay vs Time](image2)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 21:02:34
End at: 2019-07-12 21:03:04
Local clock offset: -0.004 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2019-07-13 01:12:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.34 Mbit/s
95th percentile per-packet one-way delay: 60.812 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 576.34 Mbit/s
95th percentile per-packet one-way delay: 60.812 ms
Loss rate: 0.35%
Run 1: Report of Muses_DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 21:37:31
End at: 2019-07-12 21:38:01
Local clock offset: 0.012 ms
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2019-07-13 01:14:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.45 Mbit/s
95th percentile per-packet one-way delay: 61.448 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 558.45 Mbit/s
95th percentile per-packet one-way delay: 61.448 ms
Loss rate: 0.38%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per packet one way delay (ms)]
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-12 22:12:28
End at: 2019-07-12 22:12:58
Local clock offset: -0.024 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-07-13 01:14:47
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 563.25 Mbit/s
  95th percentile per-packet one-way delay: 62.500 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 563.25 Mbit/s
  95th percentile per-packet one-way delay: 62.500 ms
  Loss rate: 0.35%
Run 3: Report of Muses_DecimalTreeR0 — Data Link

![Graph of throughput over time](chart1.png)

- Flow 1 ingress (mean 563.42 Mbit/s)
- Flow 1 egress (mean 563.25 Mbit/s)

![Graph of packet delay over time](chart2.png)

- Flow 1 (95th percentile 62.50 ms)
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2019-07-12 22:47:17
End at: 2019-07-12 22:47:47
Local clock offset: 0.019 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2019-07-13 01:14:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 530.17 Mbit/s
95th percentile per-packet one-way delay: 66.061 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 530.17 Mbit/s
95th percentile per-packet one-way delay: 66.061 ms
Loss rate: 0.38%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

![Graph showing throughput and packet delay over time for Flow 1 (ingress and egress)]
Run 5: Statistics of Muses\_DecisionTreeR0

End at: 2019-07-12 23:22:45
Local clock offset: -0.012 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-07-13 01:16:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.10 Mbit/s
95th percentile per-packet one-way delay: 65.563 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 574.10 Mbit/s
95th percentile per-packet one-way delay: 65.563 ms
Loss rate: 0.35%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

---

**Throughput (Mb/s)**

- Flow 1 ingress (mean 574.30 Mb/s)
- Flow 1 egress (mean 574.10 Mb/s)

---

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

- Flow 1 (95th percentile 65.56 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2019-07-12 20:53:52
End at: 2019-07-12 20:54:22
Local clock offset: -0.0 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-07-13 01:19:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 385.22 Mbit/s
95th percentile per-packet one-way delay: 165.394 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 385.22 Mbit/s
95th percentile per-packet one-way delay: 165.394 ms
Loss rate: 1.64%


Run 1: Report of PCC-Allegro — Data Link

![Graph showing network performance metrics over time]

- **Throughput (Mbps)**
- **Time (s)**
- **Flow 1 ingress (mean 390.40 Mbit/s)**
- **Flow 1 egress (mean 385.22 Mbit/s)**

![Graph showing packet delay over time]

- **Per packet one-way delay (ms)**
- **Time (s)**
- **Flow 1 (95th percentile 165.39 ms)**
Run 2: Statistics of PCC-Allegro

Start at: 2019-07-12 21:28:45
End at: 2019-07-12 21:29:15
Local clock offset: 0.365 ms
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-07-13 01:21:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.35 Mbit/s
95th percentile per-packet one-way delay: 130.207 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 382.35 Mbit/s
95th percentile per-packet one-way delay: 130.207 ms
Loss rate: 0.33%
Run 2: Report of PCC-Allegro — Data Link

![Graphs showing data link performance metrics.](image)
Run 3: Statistics of PCC-Allegro

Start at: 2019-07-12 22:03:45
End at: 2019-07-12 22:04:15
Local clock offset: 0.023 ms
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-07-13 01:23:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.89 Mbit/s
95th percentile per-packet one-way delay: 111.682 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 404.89 Mbit/s
95th percentile per-packet one-way delay: 111.682 ms
Loss rate: 0.41%
Run 3: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 405.27 Mbit/s)  Flow 1 egress (mean 404.89 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 111.60 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 22:38:34
End at: 2019-07-12 22:39:04
Local clock offset: 0.396 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2019-07-13 01:27:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.69 Mbit/s
95th percentile per-packet one-way delay: 167.594 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 403.69 Mbit/s
95th percentile per-packet one-way delay: 167.594 ms
Loss rate: 3.44%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

End at: 2019-07-12 23:13:50
Local clock offset: -0.03 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-07-13 01:30:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.54 Mbit/s
95th percentile per-packet one-way delay: 175.086 ms
Loss rate: 7.75%
-- Flow 1:
Average throughput: 444.54 Mbit/s
95th percentile per-packet one-way delay: 175.086 ms
Loss rate: 7.75%
Run 5: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2019-07-12 20:56:57
End at: 2019-07-12 20:57:27
Local clock offset: -0.031 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-07-13 01:30:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.47 Mbit/s
95th percentile per-packet one-way delay: 150.635 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 266.47 Mbit/s
95th percentile per-packet one-way delay: 150.635 ms
Loss rate: 0.69%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2019-07-12 21:31:51
End at: 2019-07-12 21:32:21
Local clock offset: -0.002 ms
Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2019-07-13 01:30:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.96 Mbit/s
95th percentile per-packet one-way delay: 159.081 ms
Loss rate: 5.46%
-- Flow 1:
Average throughput: 280.96 Mbit/s
95th percentile per-packet one-way delay: 159.081 ms
Loss rate: 5.46%
Run 2: Report of PCC-Expr — Data Link

![Graph of throughput and packet delay](image-url)
Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 22:06:51
End at: 2019-07-12 22:07:21
Local clock offset: 0.04 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-07-13 01:30:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.97 Mbit/s
95th percentile per-packet one-way delay: 143.141 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 251.97 Mbit/s
95th percentile per-packet one-way delay: 143.141 ms
Loss rate: 0.76%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2019-07-12 22:41:42
End at: 2019-07-12 22:42:12
Local clock offset: 0.018 ms
Remote clock offset: -0.359 ms

# Below is generated by plot.py at 2019-07-13 01:30:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.41 Mbit/s
95th percentile per-packet one-way delay: 150.486 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 278.41 Mbit/s
95th percentile per-packet one-way delay: 150.486 ms
Loss rate: 1.27%
Run 4: Report of PCC-Expr — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 281.10 Mbps)  Flow 1 egress (mean 278.41 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 150.49 ms)
Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 23:16:32
End at: 2019-07-12 23:17:02
Local clock offset: -0.027 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.99 Mbit/s
95th percentile per-packet one-way delay: 99.810 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 308.99 Mbit/s
95th percentile per-packet one-way delay: 99.810 ms
Loss rate: 0.32%
Run 5: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 309.01 Mbit/s)**
- **Flow 1 egress (mean 308.99 Mbit/s)**

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

- **Flow 1 (95th percentile 99.81 ms)**
Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 20:59:56
End at: 2019-07-12 21:00:26
Local clock offset: -0.003 ms
Remote clock offset: -0.214 ms
Run 1: Report of QUIC Cubic — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 2: Statistics of QUIC Cubic

Start at: 2019-07-12 21:34:50
End at: 2019-07-12 21:35:20
Local clock offset: 0.027 ms
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 47.371 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 47.371 ms
Loss rate: 0.57%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 22:09:46
End at: 2019-07-12 22:10:16
Local clock offset: 0.022 ms
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.53 Mbit/s
95th percentile per-packet one-way delay: 46.470 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 65.53 Mbit/s
95th percentile per-packet one-way delay: 46.470 ms
Loss rate: 0.50%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 22:44:36
End at: 2019-07-12 22:45:06
Local clock offset: 0.06 ms
Remote clock offset: -0.346 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 47.306 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 47.306 ms
Loss rate: 0.45%
Run 4: Report of QUIC Cubic — Data Link

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

- **Throughput**: The graph displays the throughput over time, with two lines indicating the ingoing and outgoing data rates. The legend shows that Flow 1 has a mean ingress rate of 74.32 Mbit/s and an egress rate of 74.22 Mbit/s.

- **Packet Delay**: The second graph shows the packet delay distribution over time, highlighting the 95th percentile delay of 47.31 ms.

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Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 23:19:33
End at: 2019-07-12 23:20:03
Local clock offset: -0.071 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 47.298 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 47.298 ms
Loss rate: 0.44%
Run 5: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 70.64 Mbit/s)**
- **Flow 1 egress (mean 70.55 Mbit/s)**

![Graph showing packet delay](image)

- **Flow 1 (95th percentile 47.30 ms)**
Run 1: Statistics of SCReAM

Start at: 2019-07-12 20:45:15
End at: 2019-07-12 20:45:45
Local clock offset: -0.389 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.251 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.251 ms
Loss rate: 0.38%
Run 1: Report of SCReAM — Data Link

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

- **Throughput (Mbps)**
- **Time (s)**

- **Flow 1 ingress (mean 0.22 Mbit/s)**
- **Flow 1 egress (mean 0.22 Mbit/s)**

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

- **Flow 1 (95th percentile 46.25 ms)**
Run 2: Statistics of SCReAM

Start at: 2019-07-12 21:20:12
End at: 2019-07-12 21:20:42
Local clock offset: -0.001 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.539 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.539 ms
Loss rate: 0.39%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

End at: 2019-07-12 21:55:42
Local clock offset: 0.012 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.530 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.530 ms
Loss rate: 0.26%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2019-07-12 22:30:00
End at: 2019-07-12 22:30:30
Local clock offset: 0.014 ms
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.413 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.413 ms
  Loss rate: 0.39%
Run 4: Report of SCReAM — Data Link

![Graph showing network data](image1)

![Graph showing per-packet one-way delay](image2)
Run 5: Statistics of SCReAM

Start at: 2019-07-12 23:04:46
End at: 2019-07-12 23:05:16
Local clock offset: 0.022 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 46.745 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 46.745 ms
  Loss rate: 0.26%
Run 5: Report of SCReAM — Data Link

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

- **Flow 1 ingress (mean 0.22 Mbit/s)**
- **Flow 1 egress (mean 0.22 Mbit/s)**

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

- **Flow 1 (95th percentile 46.74 ms)**
Run 1: Statistics of Sprout

Start at: 2019-07-12 20:52:43
End at: 2019-07-12 20:53:13
Local clock offset: -0.385 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 47.361 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 47.361 ms
Loss rate: 0.30%
Run 1: Report of Sprout — Data Link

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

![Graph 2: Packet Delay vs Time](image2)
Run 2: Statistics of Sprout

End at: 2019-07-12 21:28:06
Local clock offset: -0.023 ms
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 47.057 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 47.057 ms
Loss rate: 0.35%
Run 2: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 9.61 Mbit/s)**
- **Flow 1 egress (mean 9.61 Mbit/s)**

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

- **Flow 1 95th percentile 47.06 ms**
Run 3: Statistics of Sprout

Start at: 2019-07-12 22:02:36
End at: 2019-07-12 22:03:06
Local clock offset: 0.012 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 47.723 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 47.723 ms
Loss rate: 0.34%
Run 3: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 9.57 Mbit/s)**
- **Flow 1 egress (mean 9.56 Mbit/s)**

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

- **Flow 1 (99th percentile 47.72 ms)**
Run 4: Statistics of Sprout

Start at: 2019-07-12 22:37:26
End at: 2019-07-12 22:37:56
Local clock offset: 0.035 ms
Remote clock offset: -0.362 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 9.62 Mbit/s
  95th percentile per-packet one-way delay: 46.990 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 9.62 Mbit/s
  95th percentile per-packet one-way delay: 46.990 ms
  Loss rate: 0.34%
Run 4: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 9.62 Mbit/s)**
- **Flow 1 egress (mean 9.62 Mbit/s)**

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

- **Flow 1 95th percentile 46.99 ms**
Run 5: Statistics of Sprout

Start at: 2019-07-12 23:12:12
End at: 2019-07-12 23:12:42
Local clock offset: -0.005 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-07-13 01:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 47.796 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.67 Mbit/s
95th percentile per-packet one-way delay: 47.796 ms
Loss rate: 0.33%
Run 1: Statistics of TaoVA-100x

Start at: 2019-07-12 20:51:14
End at: 2019-07-12 20:51:44
Local clock offset: 0.007 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2019-07-13 01:34:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.61 Mbit/s
95th percentile per-packet one-way delay: 48.144 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 248.61 Mbit/s
95th percentile per-packet one-way delay: 48.144 ms
Loss rate: 0.34%
Run 1: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 248.67 Mbit/s)
- Flow 1 egress (mean 248.61 Mbit/s)

Flow 1 (95th percentile 48.14 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2019-07-12 21:26:07
End at: 2019-07-12 21:26:37
Local clock offset: -0.029 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-07-13 01:35:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.05 Mbit/s
95th percentile per-packet one-way delay: 47.998 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 246.05 Mbit/s
95th percentile per-packet one-way delay: 47.998 ms
Loss rate: 0.33%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2019-07-12 22:01:07
End at: 2019-07-12 22:01:37
Local clock offset: -0.318 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2019-07-13 01:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.48 Mbit/s
95th percentile per-packet one-way delay: 47.175 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 252.48 Mbit/s
95th percentile per-packet one-way delay: 47.175 ms
Loss rate: 0.32%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 252.50 Mbit/s)  Flow 1 egress (mean 252.48 Mbit/s)

First packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 47.17 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 22:35:56
End at: 2019-07-12 22:36:26
Local clock offset: 0.045 ms
Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2019-07-13 01:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.46 Mbit/s
95th percentile per-packet one-way delay: 47.930 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 249.46 Mbit/s
95th percentile per-packet one-way delay: 47.930 ms
Loss rate: 0.33%
Run 4: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 249.50 Mbit/s)
- Flow 1 egress (mean 249.46 Mbit/s)

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

- Flow 1 (95th percentile 47.93 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 23:10:42
End at: 2019-07-12 23:11:12
Local clock offset: 0.005 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-07-13 01:35:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.54 Mbit/s
95th percentile per-packet one-way delay: 47.459 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 254.54 Mbit/s
95th percentile per-packet one-way delay: 47.459 ms
Loss rate: 0.33%
Run 5: Report of TaoVA-100x — Data Link

![Graph showing throughput over time with two lines indicating flow ingress and egress with average speeds]

![Graph showing packet one-way delay over time with a line indicating flow 1 with 95th percentile at 47.46 ms]
Run 1: Statistics of TCP Vegas

Start at: 2019-07-12 20:43:54
End at: 2019-07-12 20:44:24
Local clock offset: 0.371 ms
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2019-07-13 01:35:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.77 Mbit/s
95th percentile per-packet one-way delay: 71.606 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 293.77 Mbit/s
95th percentile per-packet one-way delay: 71.606 ms
Loss rate: 0.29%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2019-07-12 21:18:40
End at: 2019-07-12 21:19:10
Local clock offset: -0.038 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-07-13 01:41:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.16 Mbit/s
95th percentile per-packet one-way delay: 62.156 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 538.16 Mbit/s
95th percentile per-packet one-way delay: 62.156 ms
Loss rate: 0.35%
Run 2: Report of TCP Vegas — Data Link

![Graph of throughput and latency over time]

- Flow 1 ingress (mean 538.33 Mbit/s)
- Flow 1 egress (mean 538.16 Mbit/s)

![Graph of packet delay over time]

- Flow 1 (95th percentile 62.16 ms)
Run 3: Statistics of TCP Vegas

Start at: 2019-07-12 21:53:37
End at: 2019-07-12 21:54:07
Local clock offset: -0.009 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2019-07-13 01:42:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.83 Mbit/s
95th percentile per-packet one-way delay: 63.168 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 556.83 Mbit/s
95th percentile per-packet one-way delay: 63.168 ms
Loss rate: 0.34%
Run 3: Report of TCP Vegas — Data Link

The diagram shows the throughput (Mbps) over time for two flows: Flow 1 ingress (mean 556.95 Mbps) and Flow 1 egress (mean 556.83 Mbps). The graph also includes a second plot showing the per-packet one-way delay (ms) for Flow 1 (95th percentile 63.17 ms).
Run 4: Statistics of TCP Vegas

End at: 2019-07-12 22:29:08
Local clock offset: 0.033 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-07-13 01:42:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.67 Mbit/s
95th percentile per-packet one-way delay: 47.607 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 305.67 Mbit/s
95th percentile per-packet one-way delay: 47.607 ms
Loss rate: 0.33%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 23:03:17
End at: 2019-07-12 23:03:47
Local clock offset: 0.026 ms
Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2019-07-13 01:43:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 461.42 Mbit/s
95th percentile per-packet one-way delay: 48.533 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 461.42 Mbit/s
95th percentile per-packet one-way delay: 48.533 ms
Loss rate: 0.31%
Run 5: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 461.42 Mbit/s)
- Flow 1 egress (mean 461.42 Mbit/s)

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

- Flow 1 (95th percentile 48.53 ms)
Run 1: Statistics of Verus

Start at: 2019-07-12 21:08:22
End at: 2019-07-12 21:08:52
Local clock offset: 0.021 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2019-07-13 01:43:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.09 Mbit/s
95th percentile per-packet one-way delay: 199.806 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 159.09 Mbit/s
95th percentile per-packet one-way delay: 199.806 ms
Loss rate: 1.80%
Run 1: Report of Verus — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 162.49 Mbit/s)
  - Flow 1 egress (mean 159.09 Mbit/s)

- Per packet one way delay (ms)
  - Flow 1 (95th percentile 199.81 ms)
Run 2: Statistics of Verus

Start at: 2019-07-12 21:43:16
End at: 2019-07-12 21:43:46
Local clock offset: 0.006 ms
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-07-13 01:43:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.26 Mbit/s
95th percentile per-packet one-way delay: 155.995 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 173.26 Mbit/s
95th percentile per-packet one-way delay: 155.995 ms
Loss rate: 1.01%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2019-07-12 22:18:17
End at: 2019-07-12 22:18:47
Local clock offset: 0.038 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2019-07-13 01:43:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.01 Mbit/s
95th percentile per-packet one-way delay: 165.619 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 182.01 Mbit/s
95th percentile per-packet one-way delay: 165.619 ms
Loss rate: 0.57%
Run 3: Report of Verus — Data Link

![Graph 1: Throughput vs Time]

![Graph 2: Packet Delay vs Time]

Flow 1 ingress (mean 181.63 Mbit/s) — Flow 1 egress (mean 182.01 Mbit/s)

Flow 1 (95th percentile 165.62 ms)
Run 4: Statistics of Verus

Start at: 2019-07-12 22:53:00
End at: 2019-07-12 22:53:30
Local clock offset: 0.026 ms
Remote clock offset: -0.379 ms

# Below is generated by plot.py at 2019-07-13 01:43:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.03 Mbit/s
95th percentile per-packet one-way delay: 151.938 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 123.03 Mbit/s
95th percentile per-packet one-way delay: 151.938 ms
Loss rate: 0.13%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2019-07-12 23:28:02
End at: 2019-07-12 23:28:32
Local clock offset: -0.093 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-07-13 01:45:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.57 Mbit/s
95th percentile per-packet one-way delay: 60.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.57 Mbit/s
95th percentile per-packet one-way delay: 60.404 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

![Graph of Throughput with Time](image1)

![Graph of Packet Delay with Time](image2)
Run 1: Statistics of PCC-Vivace

Start at: 2019-07-12 20:58:27
End at: 2019-07-12 20:58:57
Local clock offset: -0.017 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2019-07-13 01:45:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.55 Mbit/s
95th percentile per-packet one-way delay: 48.823 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 322.55 Mbit/s
95th percentile per-packet one-way delay: 48.823 ms
Loss rate: 0.36%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

End at: 2019-07-12 21:33:53
Local clock offset: 0.023 ms
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2019-07-13 01:45:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.49 Mbit/s
95th percentile per-packet one-way delay: 51.184 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 293.49 Mbit/s
95th percentile per-packet one-way delay: 51.184 ms
Loss rate: 0.32%
Run 2: Report of PCC-Vivace — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 3: Statistics of PCC-Vivace

Start at: 2019-07-12 22:08:20
End at: 2019-07-12 22:08:50
Local clock offset: -0.008 ms
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2019-07-13 01:45:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.93 Mbit/s
95th percentile per-packet one-way delay: 47.367 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 271.93 Mbit/s
95th percentile per-packet one-way delay: 47.367 ms
Loss rate: 0.34%
Run 3: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress** (mean 271.99 Mbit/s)
- **Flow 1 egress** (mean 271.93 Mbit/s)

![Graph 2: Packet Processing Delay](image2)

- **Flow 1** (95th percentile 47.37 ms)
Run 4: Statistics of PCC-Vivace

End at: 2019-07-12 22:43:43
Local clock offset: 0.049 ms
Remote clock offset: -0.318 ms

# Below is generated by plot.py at 2019-07-13 01:45:42
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 238.33 Mbit/s
  95th percentile per-packet one-way delay: 47.258 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 238.33 Mbit/s
  95th percentile per-packet one-way delay: 47.258 ms
  Loss rate: 0.41%
Run 4: Report of PCC-Vivace — Data Link

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

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

Flow 1 ingress (mean 238.57 Mbit/s)  Flow 1 egress (mean 238.33 Mbit/s)

Flow 1 (95th percentile 47.26 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 23:18:06
End at: 2019-07-12 23:18:36
Local clock offset: -0.026 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-07-13 01:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.62 Mbit/s
95th percentile per-packet one-way delay: 58.859 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 294.62 Mbit/s
95th percentile per-packet one-way delay: 58.859 ms
Loss rate: 0.40%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2019-07-12 21:04:09
End at: 2019-07-12 21:04:39
Local clock offset: 0.044 ms
Remote clock offset: -0.197 ms
Run 1: Report of WebRTC media — Data Link

![Graph of WebRTC media data]

- Flow 1 ingress (mean 0.00 Mbit/s)
- Flow 1 egress (mean 0.00 Mbit/s)

![Graph of per packet one way delay]

Flow 1 (95th percentile 47.90 ms)
Run 2: Statistics of WebRTC media

Start at: 2019-07-12 21:39:05
End at: 2019-07-12 21:39:35
Local clock offset: -0.031 ms
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2019-07-13 01:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2019-07-12 22:14:02
End at: 2019-07-12 22:14:33
Local clock offset: 0.039 ms
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2019-07-13 01:45:44
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.555 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.555 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Local clock offset: 0.062 ms
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2019-07-13 01:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.381 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay](image-url)
Run 5: Statistics of WebRTC media

Start at: 2019-07-12 23:23:49
End at: 2019-07-12 23:24:19
Local clock offset: -0.054 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-07-13 01:45:44
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 46.777 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 46.777 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link