Pantheon Report

Generated at 2018-05-26 02:33:05 (UTC).
Data path: GCE London Ethernet (local) → GCE Iowa Ethernet (remote).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against time.google.com and have been applied
to correct the timestamps in logs.

Git summary:
branch: master @ 0088822873ea99180f63545a341ef069f40e6e9
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929996eaa5a9c169a7f381fe1b6e5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdfb90c077e64d
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1af358fa0d66d18b62c091a55f0c872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ad08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143e978f3c5f42
third_party/scream-reproduce @ f099118d1421aa3131b1f11ff1964974e1da3d3b2
third_party/sprout @ c8386696682f0c19f6baf9aff92a596da46d48c1f
third_party/verus @ 1bb447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2bb0f86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d4e4735770d143a1fa2851
test from GCE London to GCE Iowa, 10 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>10</td>
<td>224.56</td>
<td>55.65</td>
<td>0.01</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>181.69</td>
<td>63.71</td>
<td>0.00</td>
</tr>
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<td>TCP Cubic</td>
<td>10</td>
<td>186.46</td>
<td>57.76</td>
<td>0.01</td>
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<td>FillP</td>
<td>10</td>
<td>806.97</td>
<td>122.78</td>
<td>3.94</td>
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<td>Indigo</td>
<td>10</td>
<td>234.12</td>
<td>50.53</td>
<td>0.00</td>
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<tr>
<td>LEDBAT</td>
<td>10</td>
<td>31.58</td>
<td>51.61</td>
<td>0.01</td>
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<td>PCC-Allegro</td>
<td>10</td>
<td>585.12</td>
<td>108.06</td>
<td>0.40</td>
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<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>251.53</td>
<td>127.95</td>
<td>2.31</td>
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<tr>
<td>QUIC Cubic</td>
<td>6</td>
<td>51.31</td>
<td>50.34</td>
<td>0.00</td>
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<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>50.55</td>
<td>0.00</td>
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<td>Sprout</td>
<td>10</td>
<td>7.17</td>
<td>51.20</td>
<td>0.00</td>
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<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>224.71</td>
<td>51.82</td>
<td>0.00</td>
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<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>135.13</td>
<td>53.73</td>
<td>0.01</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>248.01</td>
<td>119.34</td>
<td>1.24</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>363.40</td>
<td>56.12</td>
<td>0.04</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>0.05</td>
<td>50.85</td>
<td>0.00</td>
</tr>
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</table>
Run 1: Statistics of TCP BBR

Local clock offset: -0.564 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-05-26 01:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.79 Mbit/s
95th percentile per-packet one-way delay: 56.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.79 Mbit/s
95th percentile per-packet one-way delay: 56.653 ms
Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link

Graph 1: Throughput (Mbps) vs. Time (s)

- Flow 1 ingress (mean 225.79 Mbit/s)
- Flow 1 egress (mean 225.79 Mbit/s)

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

- Flow 1 (95th percentile 56.65 ms)
Run 2: Statistics of TCP BBR

Local clock offset: -0.106 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 55.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 55.341 ms
Loss rate: 0.00%
Run 2: Report of TCP BBR — Data Link

![Graph showing network performance metrics]

- **Flow 1 ingress (mean 226.88 Mbit/s)**
- **Flow 1 egress (mean 226.88 Mbit/s)**

![Graph showing packet delay]

- **Flow 1 (95th percentile 55.34 ms)**
Run 3: Statistics of TCP BBR

Local clock offset: -0.569 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.33 Mbit/s
95th percentile per-packet one-way delay: 57.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.33 Mbit/s
95th percentile per-packet one-way delay: 57.875 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

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

- **Flow 1 ingress** (mean 223.33 Mbps)
- **Flow 1 egress** (mean 223.33 Mbps)

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

- **Flow 1** (95th percentile 57.88 ms)
Run 4: Statistics of TCP BBR

Local clock offset: -0.587 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.64 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.64 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

End at: 2018-05-25 23:10:12
Local clock offset: -0.575 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.67 Mbit/s
95th percentile per-packet one-way delay: 54.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.67 Mbit/s
95th percentile per-packet one-way delay: 54.610 ms
Loss rate: 0.00%
Run 5: Report of TCP BBR — Data Link

![Throughput and Delay Graphs]

- **Throughput**
  - Flow 1 ingress (mean 225.66 Mbit/s)
  - Flow 1 egress (mean 225.67 Mbit/s)

- **Delay**
  - Flow 1 (95th percentile 54.61 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-05-25 23:30:08
End at: 2018-05-25 23:30:38
Local clock offset: 0.198 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 225.87 Mbit/s
  95th percentile per-packet one-way delay: 54.332 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 225.87 Mbit/s
  95th percentile per-packet one-way delay: 54.332 ms
  Loss rate: 0.00%
Run 6: Report of TCP BBR — Data Link

![Graph of Throughput Over Time](image1)

- Flow 1 ingress (mean 225.86 Mbit/s)
- Flow 1 egress (mean 225.87 Mbit/s)

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

- Flow 1 (95th percentile 54.33 ms)
Run 7: Statistics of TCP BBR

End at: 2018-05-25 23:51:10
Local clock offset: 0.22 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 56.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 56.230 ms
Loss rate: 0.00%
Run 7: Report of TCP BBR — Data Link

![Graph of Throughput vs Time](image)

- Flow 1 ingress (mean 221.03 Mbit/s)
- Flow 1 egress (mean 221.03 Mbit/s)

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

- Flow 1 (95th percentile 56.73 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-05-26 00:11:06
End at: 2018-05-26 00:11:36
Local clock offset: -0.176 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 01:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.17 Mbit/s
95th percentile per-packet one-way delay: 55.081 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 223.17 Mbit/s
95th percentile per-packet one-way delay: 55.081 ms
Loss rate: 0.12%
Run 8: Report of TCP BBR — Data Link

![Graph of throughput and round-trip time](image-url)

**Throughput (Mbps)**

- **Flow 1 ingress (mean 223.69 Mbps)**
- **Flow 1 egress (mean 223.17 Mbps)**

**Round-trip time (ms)**

- **Flow 1 (95th percentile 55.08 ms)**
Run 9: Statistics of TCP BBR

Start at: 2018-05-26 00:31:35
End at: 2018-05-26 00:32:05
Local clock offset: 0.12 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 01:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.84 Mbit/s
95th percentile per-packet one-way delay: 55.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.84 Mbit/s
95th percentile per-packet one-way delay: 55.593 ms
Loss rate: 0.00%
Run 9: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 222.84 Mbit/s)
- Flow 1 egress (mean 222.84 Mbit/s)

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

- Flow 1 (95th percentile 55.59 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-05-26 00:52:07
End at: 2018-05-26 00:52:37
Local clock offset: -0.236 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-05-26 01:14:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.43 Mbit/s
95th percentile per-packet one-way delay: 57.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.43 Mbit/s
95th percentile per-packet one-way delay: 57.548 ms
Loss rate: 0.00%
Run 1: Statistics of Copa

Local clock offset: -0.152 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-05-26 01:16:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.35 Mbit/s
95th percentile per-packet one-way delay: 62.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.35 Mbit/s
95th percentile per-packet one-way delay: 62.130 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Local clock offset: -0.503 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 01:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.89 Mbit/s
95th percentile per-packet one-way delay: 56.956 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.89 Mbit/s
95th percentile per-packet one-way delay: 56.956 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

![Graph showing throughput over time](image1)

- **Flow 1 ingress** (mean 272.89 Mbit/s)
- **Flow 1 egress** (mean 272.89 Mbit/s)

![Graph showing packet delay over time](image2)

- **Flow 1** (95th percentile 56.96 ms)
Run 3: Statistics of Copa

Local clock offset: -0.172 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-05-26 01:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.26 Mbit/s
95th percentile per-packet one-way delay: 82.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.26 Mbit/s
95th percentile per-packet one-way delay: 82.385 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

![Graph showing throughput and packet delay over time.](image-url)
Run 4: Statistics of Copa

Local clock offset: -0.211 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 01:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.52 Mbit/s
95th percentile per-packet one-way delay: 53.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.52 Mbit/s
95th percentile per-packet one-way delay: 53.439 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 126.54 Mbit/s)**
- **Flow 1 egress (mean 126.52 Mbit/s)**

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

- **Flow 1 (95th percentile 53.44 ms)**
Run 5: Statistics of Copa

Local clock offset: -0.621 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-05-26 01:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.43 Mbit/s
95th percentile per-packet one-way delay: 56.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.43 Mbit/s
95th percentile per-packet one-way delay: 56.188 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Graph representing throughput over time with two lines indicating Flow 1 ingress and egress traffic.]

![Graph representing packet delay over time with one line indicating Flow 1's 95th percentile delay.]

Flow 1 ingress (mean 164.44 Mbit/s)  Flow 1 egress (mean 164.43 Mbit/s)

Flow 1 (95th percentile 56.19 ms)
Run 6: Statistics of Copa

Local clock offset: -0.173 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-05-26 01:19:37
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 242.09 Mbit/s
  95th percentile per-packet one-way delay: 65.813 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 242.09 Mbit/s
  95th percentile per-packet one-way delay: 65.813 ms
  Loss rate: 0.00%
Run 6: Report of Copa — Data Link

![Graph of throughput and packet delay over time for flow 1 ingress and egress, showing variability in data link performance.]

- **Throughput:** Data link throughput varies significantly over time, peaking above 400 Mbps and dropping below 100 Mbps.
- **Packet Delay:** Packet delay shows spikes, indicating potential network congestion or latency issues.

These graphs illustrate the dynamic nature of the data link performance during the run, emphasizing the need for adaptive network management strategies.
Run 7: Statistics of Copa

Local clock offset: 0.201 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-05-26 01:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.57 Mbit/s
95th percentile per-packet one-way delay: 58.568 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 132.57 Mbit/s
95th percentile per-packet one-way delay: 58.568 ms
Loss rate: 0.03%
Run 7: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

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

Local clock offset: -0.191 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-05-26 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.93 Mbit/s
95th percentile per-packet one-way delay: 62.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.93 Mbit/s
95th percentile per-packet one-way delay: 62.540 ms
Loss rate: 0.00%
Run 8: Report of Copa — Data Link

[Graphs showing throughput and per-packet one-way delay over time]

Flow 1 ingress (mean 209.93 Mbit/s)
Flow 1 egress (mean 209.93 Mbit/s)
Flow 1 (95th percentile 62.54 ms)
Run 9: Statistics of Copa

Start at: 2018-05-26 00:16:11
End at: 2018-05-26 00:16:41
Local clock offset: -0.195 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-05-26 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.77 Mbit/s
95th percentile per-packet one-way delay: 70.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.77 Mbit/s
95th percentile per-packet one-way delay: 70.488 ms
Loss rate: 0.00%
Run 9: Report of Copa — Data Link

![Throughput Graph](image)

**Throughput (Mbps)**

- Flow 1 ingress (mean 171.78 Mbps)
- Flow 1 egress (mean 171.77 Mbps)

![Delay Graph](image)

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

- Flow 1 (95th percentile 70.49 ms)
Run 10: Statistics of Copa

Start at: 2018-05-26 00:36:45
End at: 2018-05-26 00:37:15
Local clock offset: 0.131 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.10 Mbit/s
95th percentile per-packet one-way delay: 68.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.10 Mbit/s
95th percentile per-packet one-way delay: 68.581 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link

![Graph showing throughput and delay over time for flow 1 ingress and egress]
Run 1: Statistics of TCP Cubic

End at: 2018-05-25 21:41:54
Local clock offset: -0.241 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-26 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.73 Mbit/s
95th percentile per-packet one-way delay: 58.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.73 Mbit/s
95th percentile per-packet one-way delay: 58.147 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 22:02:09
End at: 2018-05-25 22:02:39
Local clock offset: -0.552 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-26 01:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.33 Mbit/s
95th percentile per-packet one-way delay: 59.093 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 176.33 Mbit/s
95th percentile per-packet one-way delay: 59.093 ms
Loss rate: 0.05%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Local clock offset: -0.594 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-05-26 01:22:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.57 Mbit/s
95th percentile per-packet one-way delay: 59.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.57 Mbit/s
95th percentile per-packet one-way delay: 59.602 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link

![Throughput Graph](image)

- Flow 1 ingress (mean 228.57 Mbit/s)
- Flow 1 egress (mean 228.57 Mbit/s)

![Delay Graph](image)

- Flow 1 (95th percentile 59.60 ms)
Run 4: Statistics of TCP Cubic

Local clock offset: -0.189 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-05-26 01:22:27
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 233.62 Mbit/s
  95th percentile per-packet one-way delay: 57.993 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 233.62 Mbit/s
  95th percentile per-packet one-way delay: 57.993 ms
  Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

![Throughput Graph](image1)

- **Flow 1 ingress (mean 233.63 Mbit/s)**
- **Flow 1 egress (mean 233.62 Mbit/s)**

![Delay Graph](image2)

- **Flow 1 (95th percentile 57.99 ms)**

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Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 23:03:45
End at: 2018-05-25 23:04:15
Local clock offset: -0.201 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-05-26 01:22:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.73 Mbit/s
95th percentile per-packet one-way delay: 56.219 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 165.73 Mbit/s
95th percentile per-packet one-way delay: 56.219 ms
Loss rate: 0.03%
Run 5: Report of TCP Cubic — Data Link

![Graph of Throughput (Mbps) over time showing two flows: Flow 1 ingress (mean 165.79 Mbps) and Flow 1 egress (mean 165.73 Mbps).]

![Graph of Per packet one way delay (ms) over time showing Flow 1 with a 95th percentile of 56.22 ms.]
Run 6: Statistics of TCP Cubic

Local clock offset: -0.567 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-05-26 01:22:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.71 Mbit/s
95th percentile per-packet one-way delay: 56.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.71 Mbit/s
95th percentile per-packet one-way delay: 56.418 ms
Loss rate: 0.00%
Run 6: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 169.71 Mbit/s)**
- **Flow 1 egress (mean 169.71 Mbit/s)**

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

- **Flow 1 (95th percentile 56.42 ms)**
Run 7: Statistics of TCP Cubic

End at: 2018-05-25 23:45:07
Local clock offset: -0.184 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-05-26 01:22:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.02 Mbit/s
95th percentile per-packet one-way delay: 58.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.02 Mbit/s
95th percentile per-packet one-way delay: 58.782 ms
Loss rate: 0.00%
Run 7: Report of TCP Cubic — Data Link
Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 00:05:02
End at: 2018-05-26 00:05:32
Local clock offset: -0.191 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-05-26 01:22:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.86 Mbit/s
95th percentile per-packet one-way delay: 54.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.86 Mbit/s
95th percentile per-packet one-way delay: 54.547 ms
Loss rate: 0.00%
Run 8: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 152.86 Mbit/s)
- Flow 1 egress (mean 152.86 Mbit/s)

Flow 1 (95th percentile 54.55 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 00:25:34
End at: 2018-05-26 00:26:04
Local clock offset: -0.579 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 01:22:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.76 Mbit/s
95th percentile per-packet one-way delay: 58.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.76 Mbit/s
95th percentile per-packet one-way delay: 58.585 ms
Loss rate: 0.00%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 00:46:05
End at: 2018-05-26 00:46:35
Local clock offset: -0.216 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-05-26 01:23:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.29 Mbit/s
95th percentile per-packet one-way delay: 58.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.29 Mbit/s
95th percentile per-packet one-way delay: 58.242 ms
Loss rate: 0.00%
Run 10: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 159.29 Mbit/s)**
- **Flow 1 egress (mean 159.29 Mbit/s)**

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

- **Flow 1 (95th percentile 58.24 ms)**

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Run 1: Statistics of FillP

End at: 2018-05-25 21:40:19
Local clock offset: 0.163 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 01:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 781.07 Mbit/s
95th percentile per-packet one-way delay: 124.577 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 781.07 Mbit/s
95th percentile per-packet one-way delay: 124.577 ms
Loss rate: 4.63%
Run 1: Report of FillP — Data Link

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

- Blue dashed line: Flow 1 ingress (mean 819.04 Mb/s)
- Blue line: Flow 1 egress (mean 781.07 Mb/s)

![Graph 2: Per-Socket Delay vs. Time](image2)

- Blue line: Flow 1 (95th percentile 124.58 ms)
Run 2: Statistics of FillP

Start at: 2018-05-25 22:00:33
End at: 2018-05-25 22:01:03
Local clock offset: -0.532 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-05-26 01:37:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 786.89 Mbit/s
95th percentile per-packet one-way delay: 124.046 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 786.89 Mbit/s
95th percentile per-packet one-way delay: 124.046 ms
Loss rate: 3.59%
Run 2: Report of FillP — Data Link

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

- **Flow 1 ingress** (mean 816.15 Mbps) vs. **Flow 1 egress** (mean 786.89 Mbps)

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

- **Flow 1** (95th percentile 124.05 ms)
Run 3: Statistics of FillP

Local clock offset: -0.393 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-05-26 01:37:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 788.19 Mbit/s
95th percentile per-packet one-way delay: 127.058 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 788.19 Mbit/s
95th percentile per-packet one-way delay: 127.058 ms
Loss rate: 4.11%
Run 3: Report of FillP — Data Link

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

- Flow 1 ingress (mean 821.96 Mbit/s)
- Flow 1 egress (mean 788.19 Mbit/s)

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

- Flow 1 (95th percentile 127.06 ms)
Run 4: Statistics of FillP

Local clock offset: -0.212 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 01:37:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 742.74 Mbit/s
95th percentile per-packet one-way delay: 134.069 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 742.74 Mbit/s
95th percentile per-packet one-way delay: 134.069 ms
Loss rate: 5.88%
Run 4: Report of FillP — Data Link

![Graph of Throughput](image1)

- **Flow 1 ingress** (mean 789.20 Mbit/s)
- **Flow 1 egress** (mean 742.74 Mbit/s)

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

- **Flow 1** (95th percentile 134.07 ms)
Run 5: Statistics of FillP

Start at: 2018-05-25 23:02:09
End at: 2018-05-25 23:02:39
Local clock offset: 0.14 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-05-26 01:38:13
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 829.30 Mbit/s
  95th percentile per-packet one-way delay: 120.464 ms
  Loss rate: 3.99%
  -- Flow 1:
  Average throughput: 829.30 Mbit/s
  95th percentile per-packet one-way delay: 120.464 ms
  Loss rate: 3.99%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Local clock offset: -0.548 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-26 01:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 747.88 Mbit/s
95th percentile per-packet one-way delay: 127.927 ms
Loss rate: 5.92%
-- Flow 1:
Average throughput: 747.88 Mbit/s
95th percentile per-packet one-way delay: 127.927 ms
Loss rate: 5.92%
Run 6: Report of FillP — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress](image-url)

- Flow 1 ingress (mean 794.54 Mbit/s)
- Flow 1 egress (mean 747.88 Mbit/s)

![Graph showing per-packet one-way delay for Flow 1](image-url)

- Flow 1 (95th percentile 127.93 ms)
Run 7: Statistics of FillP

Local clock offset: -0.16 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-26 01:39:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 899.30 Mbit/s
95th percentile per-packet one-way delay: 115.444 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 899.30 Mbit/s
95th percentile per-packet one-way delay: 115.444 ms
Loss rate: 1.62%
Run 7: Report of FillP — Data Link

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

- Flow 1 ingress (mean 914.10 Mbps)
- Flow 1 egress (mean 899.30 Mbps)

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

- Flow 1 (95th percentile 115.44 ms)
Run 8: Statistics of FillP

Start at: 2018-05-26 00:03:25
End at: 2018-05-26 00:03:55
Local clock offset: -0.173 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-26 01:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 866.88 Mbit/s
95th percentile per-packet one-way delay: 112.561 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 866.88 Mbit/s
95th percentile per-packet one-way delay: 112.561 ms
Loss rate: 1.49%
Run 8: Report of FillP — Data Link
Run 9: Statistics of FillP

Start at: 2018-05-26 00:23:56
End at: 2018-05-26 00:24:26
Local clock offset: -0.275 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 839.83 Mbit/s
95th percentile per-packet one-way delay: 118.377 ms
Loss rate: 3.90%
-- Flow 1:
Average throughput: 839.83 Mbit/s
95th percentile per-packet one-way delay: 118.377 ms
Loss rate: 3.90%
Run 9: Report of FillP — Data Link
Run 10: Statistics of FillP

Start at: 2018-05-26 00:44:28
End at: 2018-05-26 00:44:59
Local clock offset: -0.226 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 787.63 Mbit/s
95th percentile per-packet one-way delay: 123.245 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 787.63 Mbit/s
95th percentile per-packet one-way delay: 123.245 ms
Loss rate: 4.28%
Run 10: Report of FillP — Data Link

![Graph of throughput and delay over time]

Throughput (Mbps): Flow 1 ingress (mean 822.89 Mbps)  
Flow 1 egress (mean 787.63 Mbps)

Per-packet one-way delay (ms): Flow 1 (95th percentile 123.25 ms)
Run 1: Statistics of Indigo

Start at: 2018-05-25 21:36:01
Local clock offset: -0.154 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.03 Mbit/s
95th percentile per-packet one-way delay: 50.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.03 Mbit/s
95th percentile per-packet one-way delay: 50.161 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 219.03 Mbit/s)
- Flow 1 egress (mean 219.03 Mbit/s)

- Flow 1 (95th percentile 50.16 ms)
Run 2: Statistics of Indigo

End at: 2018-05-25 21:57:08
Local clock offset: -0.553 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.54 Mbit/s
95th percentile per-packet one-way delay: 51.142 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.54 Mbit/s
95th percentile per-packet one-way delay: 51.142 ms
Loss rate: 0.00%
Run 3: Statistics of Indigo

Local clock offset: -0.557 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.18 Mbit/s
95th percentile per-packet one-way delay: 50.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.18 Mbit/s
95th percentile per-packet one-way delay: 50.793 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

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

Flow 1 ingress (mean 248.18 Mbit/s)  Flow egress (mean 248.18 Mbit/s)

![Graph 2: Packet delay (ms)](image2)

Flow 1 (95th percentile 50.79 ms)
Run 4: Statistics of Indigo

Local clock offset: -0.17 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.65 Mbit/s
95th percentile per-packet one-way delay: 50.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.65 Mbit/s
95th percentile per-packet one-way delay: 50.378 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Local clock offset: 0.199 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.84 Mbit/s
95th percentile per-packet one-way delay: 50.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 245.84 Mbit/s
95th percentile per-packet one-way delay: 50.240 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 245.85 Mbit/s)**
- **Flow 1 egress (mean 245.84 Mbit/s)**

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

- **Flow 1 (95th percentile 50.24 ms)**
Run 6: Statistics of Indigo

End at: 2018-05-25 23:19:08
Local clock offset: -0.195 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.68 Mbit/s
95th percentile per-packet one-way delay: 49.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.68 Mbit/s
95th percentile per-packet one-way delay: 49.779 ms
Loss rate: 0.00%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Local clock offset: -0.151 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.86 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.86 Mbit/s
95th percentile per-packet one-way delay: 50.777 ms
Loss rate: 0.00%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

End at: 2018-05-26 00:00:03
Local clock offset: 0.175 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.59 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.59 Mbit/s
95th percentile per-packet one-way delay: 50.460 ms
Loss rate: 0.00%
Run 8: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 226.59 Mbit/s)
- Flow 1 egress (mean 226.59 Mbit/s)

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

- Flow 1 (95th percentile 50.46 ms)
Run 9: Statistics of Indigo

Start at: 2018-05-26 00:20:03
End at: 2018-05-26 00:20:33
Local clock offset: -0.232 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.69 Mbit/s
95th percentile per-packet one-way delay: 50.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.69 Mbit/s
95th percentile per-packet one-way delay: 50.823 ms
Loss rate: 0.00%
Run 9: Report of Indigo — Data Link
Run 10: Statistics of Indigo

Start at: 2018-05-26 00:40:34
End at: 2018-05-26 00:41:04
Local clock offset: -0.264 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.14 Mbit/s
95th percentile per-packet one-way delay: 50.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.14 Mbit/s
95th percentile per-packet one-way delay: 50.788 ms
Loss rate: 0.00%
Run 10: Report of Indigo — Data Link

[Graphs showing throughput and packet delay over time]
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 21:45:09
End at: 2018-05-25 21:45:39
Local clock offset: -0.191 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.54 Mbit/s
95th percentile per-packet one-way delay: 50.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.54 Mbit/s
95th percentile per-packet one-way delay: 50.865 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with 95th percentile delay for Flow 1.]

Flow 1 ingress (mean 18.54 Mbit/s)  Flow 1 egress (mean 18.54 Mbit/s)
Run 2: Statistics of LEDBAT

Local clock offset: -0.5 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 51.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 51.458 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

![Graph 1: Throughput vs Time (Mbps/s)]
- **Flow 1 ingress (mean 35.15 Mbps/s)**
- **Flow 1 egress (mean 35.15 Mbps/s)**

![Graph 2: Per-packet end-to-end delay (ms)]
- **Flow 1 (95th percentile 51.46 ms)**
Run 3: Statistics of LEDBAT

Local clock offset: -0.51 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 52.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 52.325 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 35.31 Mbit/s)
- Flow 1 egress (mean 35.31 Mbit/s)

![Graph 2: Packet Delay vs Time]

- Flow 1 (95th percentile 52.33 ms)
Run 4: Statistics of LEDBAT

Local clock offset: -0.603 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 52.001 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 52.001 ms
Loss rate: 0.05%
Run 4: Report of LEDBAT — Data Link

![Graphs showing throughput and packet delay over time.](image-url)
Run 5: Statistics of LEDBAT

End at: 2018-05-25 23:07:56
Local clock offset: -0.531 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 51.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 51.081 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 35.70 Mbit/s)**
- **Flow 1 egress (mean 36.70 Mbit/s)**

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

- **Flow 1 (95th percentile 51.08 ms)**
Run 6: Statistics of LEDBAT

Local clock offset: 0.211 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 51.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 51.227 ms
Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Local clock offset: -0.577 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 52.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 52.084 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link

[Graph showing throughput over time for two different flows: Flow 1 ingress (mean 35.73 Mbit/s) and Flow 1 egress (mean 35.73 Mbit/s).]

[Graph showing packet round trip delay over time for Flow 1 (95th percentile 52.08 ms).]
Run 8: Statistics of LEDBAT

Start at: 2018-05-26 00:08:43
End at: 2018-05-26 00:09:13
Local clock offset: 0.175 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 51.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 51.274 ms
Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link

![Graph 1](image1.png)

- **Flow 1 ingress** (mean 24.76 Mbit/s)
- **Flow 1 egress** (mean 24.75 Mbit/s)

![Graph 2](image2.png)

- **Flow 1 (95th percentile 51.27 ms)**
Run 9: Statistics of LEDBAT

Start at: 2018-05-26 00:29:15
End at: 2018-05-26 00:29:46
Local clock offset: -0.204 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 51.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.64 Mbit/s
95th percentile per-packet one-way delay: 51.493 ms
Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 23.64 Mbit/s)
- Flow 1 egress (mean 23.64 Mbit/s)

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

- Flow 1 (95th percentile 51.49 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-05-26 00:49:49
End at: 2018-05-26 00:50:19
Local clock offset: -0.246 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-05-26 01:53:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 52.333 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 35.24 Mbit/s
95th percentile per-packet one-way delay: 52.333 ms
Loss rate: 0.06%
Run 10: Report of LEDBAT — Data Link

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

Flow 1 ingress (mean 35.26 Mbit/s)  Flow 1 egress (mean 35.24 Mbit/s)

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

Flow 1 (95th percentile 52.33 ms)
Run 1: Statistics of PCC-Allegro

Local clock offset: -0.192 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 01:54:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.42 Mbit/s
95th percentile per-packet one-way delay: 157.756 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 607.42 Mbit/s
95th percentile per-packet one-way delay: 157.756 ms
Loss rate: 0.66%
Run 1: Report of PCC-Allegro — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 611.50 Mbit/s)
- Flow 1 egress (mean 607.42 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 157.76 ms)
Run 2: Statistics of PCC-Allegro

End at: 2018-05-25 22:11:00
Local clock offset: -0.128 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-05-26 01:54:36
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 589.28 Mbit/s
  95th percentile per-packet one-way delay: 132.428 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 589.28 Mbit/s
  95th percentile per-packet one-way delay: 132.428 ms
  Loss rate: 0.63%
Run 2: Report of PCC-Allegro — Data Link

![Throughput vs Time Graph]

**Throughput (Mbps)**

- Flow 1 ingress (mean 593.04 Mbit/s)
- Flow 1 egress (mean 589.28 Mbit/s)

![Delay vs Time Graph]

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

- Flow 1 (95th percentile 132.43 ms)
Run 3: Statistics of PCC-Allegro

Local clock offset: -0.212 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-26 01:54:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.34 Mbit/s
95th percentile per-packet one-way delay: 105.251 ms
Loss rate: 0.33%

-- Flow 1:
Average throughput: 583.34 Mbit/s
95th percentile per-packet one-way delay: 105.251 ms
Loss rate: 0.33%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 585.30 Mbit/s)
- Flow 1 egress (mean 583.34 Mbit/s)

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

- Flow 1 (95th percentile 105.25 ms)
Run 4: Statistics of PCC-Allegro

Local clock offset: ~0.241 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-05-26 01:54:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.59 Mbit/s
95th percentile per-packet one-way delay: 70.557 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 587.59 Mbit/s
95th percentile per-packet one-way delay: 70.557 ms
Loss rate: 0.19%
Run 4: Report of PCC-Allegro — Data Link

![Throughput and Packet Delay Graphs]

- Flow 1 ingress (mean 588.67 Mb/s)
- Flow 1 egress (mean 587.59 Mb/s)
- Flow 1 (95th percentile 70.56 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 23:12:05
Local clock offset: -0.208 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-05-26 01:54:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.38 Mbit/s
95th percentile per-packet one-way delay: 85.319 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 575.38 Mbit/s
95th percentile per-packet one-way delay: 85.319 ms
Loss rate: 0.28%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

End at: 2018-05-25 23:33:02
Local clock offset: -0.156 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-05-26 01:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.99 Mbit/s
95th percentile per-packet one-way delay: 104.116 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 612.99 Mbit/s
95th percentile per-packet one-way delay: 104.116 ms
Loss rate: 0.17%
Run 6: Report of PCC-Allegro — Data Link

![Throughput Time Graph]

![Round-Trip Time Graph]
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 23:53:00
Local clock offset: -0.21 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 02:02:05
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 565.83 Mbit/s
  95th percentile per-packet one-way delay: 83.530 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 565.83 Mbit/s
  95th percentile per-packet one-way delay: 83.530 ms
  Loss rate: 0.30%
Run 7: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 567.54 Mbit/s)
- Flow 1 egress (mean 565.83 Mbit/s)

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

- Flow 1 (95th percentile: 83.53 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 00:13:27
End at: 2018-05-26 00:13:57
Local clock offset: -0.233 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-05-26 02:02:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 551.45 Mbit/s
95th percentile per-packet one-way delay: 128.374 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 551.45 Mbit/s
95th percentile per-packet one-way delay: 128.374 ms
Loss rate: 0.71%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-26 00:33:59
End at: 2018-05-26 00:34:29
Local clock offset: -0.584 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-26 02:03:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.94 Mbit/s
95th percentile per-packet one-way delay: 114.710 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 588.94 Mbit/s
95th percentile per-packet one-way delay: 114.710 ms
Loss rate: 0.22%
Run 9: Report of PCC-Allegro — Data Link

![Throughput Graph](image)

- **Flow 1 ingress (mean 590.22 Mbit/s)**
- **Flow 1 egress (mean 588.94 Mbit/s)**

![Packet Loss Graph](image)

- **Flow 1 (95th percentile 114.71 ms)**
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 00:54:28
End at: 2018-05-26 00:54:58
Local clock offset: -0.187 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-05-26 02:03:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.00 Mbit/s
95th percentile per-packet one-way delay: 98.548 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 589.00 Mbit/s
95th percentile per-packet one-way delay: 98.548 ms
Loss rate: 0.55%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 21:34:34
End at: 2018-05-25 21:35:04
Local clock offset: -0.597 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-05-26 02:03:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.89 Mbit/s
95th percentile per-packet one-way delay: 156.543 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 266.89 Mbit/s
95th percentile per-packet one-way delay: 156.543 ms
Loss rate: 0.70%
Run 1: Report of PCC-Expr — Data Link

![Graph showing throughput and delay over time for Flow 1]
Run 2: Statistics of PCC-Expr

Local clock offset: -0.592 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-26 02:03:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.00 Mbit/s
95th percentile per-packet one-way delay: 180.140 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 286.00 Mbit/s
95th percentile per-packet one-way delay: 180.140 ms
Loss rate: 3.67%
Run 2: Report of PCC-Expr — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 296.89 Mbps)**
- **Flow 1 egress (mean 286.00 Mbps)**

---

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

- **Flow 1 (95th percentile 180.14 ms)**

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Run 3: Statistics of PCC-Expr

Local clock offset: 0.187 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-05-26 02:03:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 301.36 Mbit/s
95th percentile per-packet one-way delay: 172.195 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 301.36 Mbit/s
95th percentile per-packet one-way delay: 172.195 ms
Loss rate: 2.55%
Run 3: Report of PCC-Expr — Data Link

![Throughput graph](image1)

![Round-trip time graph](image2)
Run 4: Statistics of PCC-Expr

End at: 2018-05-25 22:36:43
Local clock offset: -0.587 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-26 02:07:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.23 Mbit/s
95th percentile per-packet one-way delay: 201.743 ms
Loss rate: 14.15%
-- Flow 1:
Average throughput: 352.23 Mbit/s
95th percentile per-packet one-way delay: 201.743 ms
Loss rate: 14.15%
Run 4: Report of PCC-Expr — Data Link

![Throughput Graph](image1)

- **Flow 1 ingress (mean 410.31 Mbit/s)**
- **Flow 1 egress (mean 352.23 Mbit/s)**

![Delay Graph](image2)

- **Flow 1 (95th percentile 201.74 ms)**
Run 5: Statistics of PCC-Expr

Local clock offset: -0.565 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-05-26 02:07:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.25 Mbit/s
95th percentile per-packet one-way delay: 51.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.25 Mbit/s
95th percentile per-packet one-way delay: 51.194 ms
Loss rate: 0.00%
Run 5: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 188.25 Mbit/s)
- Flow 1 egress (mean 188.25 Mbit/s)

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

- Flow 1 (95th percentile 51.19 ms)
Run 6: Statistics of PCC-Expr

Local clock offset: -0.162 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-05-26 02:07:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.76 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.76 Mbit/s
95th percentile per-packet one-way delay: 50.612 ms
Loss rate: 0.00%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

End at: 2018-05-25 23:38:09
Local clock offset: -0.178 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-05-26 02:09:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.32 Mbit/s
95th percentile per-packet one-way delay: 134.253 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 231.32 Mbit/s
95th percentile per-packet one-way delay: 134.253 ms
Loss rate: 0.07%
Run 8: Statistics of PCC-Expr

Local clock offset: -0.129 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-05-26 02:09:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.96 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 166.96 Mbit/s
95th percentile per-packet one-way delay: 50.763 ms
Loss rate: 0.01%
Run 8: Report of PCC-Expr — Data Link
Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 00:18:35
End at: 2018-05-26 00:19:05
Local clock offset: 0.133 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 02:11:26
# Datalink statistics
-- Total of 1 flow:
 Average throughput: 268.79 Mbit/s
 95th percentile per-packet one-way delay: 174.767 ms
 Loss rate: 1.91%
-- Flow 1:
 Average throughput: 268.79 Mbit/s
 95th percentile per-packet one-way delay: 174.767 ms
 Loss rate: 1.91%
Run 9: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 274.02 Mbit/s)
- Flow 1 egress (mean 268.79 Mbit/s)
Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 00:39:06
End at: 2018-05-26 00:39:36
Local clock offset: -0.242 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.73 Mbit/s
95th percentile per-packet one-way delay: 107.325 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 268.73 Mbit/s
95th percentile per-packet one-way delay: 107.325 ms
Loss rate: 0.03%
Run 10: Report of PCC-Expr — Data Link

---

**Throughput (Mbps)**

- Flow 1 ingress (mean 268.79 Mbit/s)
- Flow 1 egress (mean 268.73 Mbit/s)

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

- Flow 1 (95th percentile 107.33 ms)

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Run 1: Statistics of QUIC Cubic

Local clock offset: -0.191 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 44.55 Mbit/s
  95th percentile per-packet one-way delay: 50.247 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 44.55 Mbit/s
  95th percentile per-packet one-way delay: 50.247 ms
  Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

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

**Legend:**
- Flow 1 ingress (mean 44.55 Mbit/s)
- Flow 1 egress (mean 44.55 Mbit/s)

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

**Legend:**
- Flow 1 (95th percentile 50.25 ms)
Run 2: Statistics of QUIC Cubic

End at: 2018-05-25 22:09:54
Local clock offset: -0.109 ms
Remote clock offset: -0.156 ms
Run 2: Report of QUIC Cubic — Data Link

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

![Graph 2: Packet Delay vs Time](image2)
Run 3: Statistics of QUIC Cubic

Local clock offset: 0.195 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 50.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 50.237 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Local clock offset: -0.205 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

![Graph 2: Per packet one way delay (ms)](image2)
Run 5: Statistics of QUIC Cubic

Local clock offset: -0.207 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 40.66 Mbit/s
  95th percentile per-packet one-way delay: 50.542 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 40.66 Mbit/s
  95th percentile per-packet one-way delay: 50.542 ms
  Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Local clock offset: -0.545 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 72.44 Mbit/s
  95th percentile per-packet one-way delay: 50.046 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 72.44 Mbit/s
  95th percentile per-packet one-way delay: 50.046 ms
  Loss rate: 0.00%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Local clock offset: -0.167 ms
Remote clock offset: 0.058 ms
Run 7: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 0.06 Mbit/s)**
- **Flow 1 egress (mean 0.06 Mbit/s)**

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

- **Flow 1 (95th percentile 49.23 ms)**
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-26 00:12:22
End at: 2018-05-26 00:12:52
Local clock offset: -0.187 ms
Remote clock offset: -0.002 ms
Run 8: Report of QUIC Cubic — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with mean 0.06 Mbps.]

![Graph showing one-way delay for Flow 1 with 95th percentile at 50.62 ms.]

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Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 00:32:51
End at: 2018-05-26 00:33:21
Local clock offset: -0.266 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 50.683 ms
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-26 00:53:23
End at: 2018-05-26 00:53:53
Local clock offset: -0.227 ms
Remote clock offset: -0.084 ms
Run 10: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)

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

- Flow 1 (95th percentile 48.99 ms)
Run 1: Statistics of SCReAM

Local clock offset: -0.582 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.241 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

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

![Graph showing round-trip delay over time](image2)

*Flow 1 (95th percentile 51.24 ms)*
Run 2: Statistics of SCReAM

End at: 2018-05-25 22:03:52
Local clock offset: -0.177 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph showing network traffic and delay over time.](image1)

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

![Graph showing packet delay over time.](image2)

- Flow 1 (95th percentile 50.66 ms)
Run 3: Statistics of SCReAM

Local clock offset: 0.228 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.337 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.337 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph showing throughput and packet loss over time](image1)

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

![Graph showing packet loss over time](image2)

- Flow 1 (95th percentile 50.34 ms)
Run 4: Statistics of SCReAM

End at: 2018-05-25 22:45:03
Local clock offset: -0.173 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.868 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Local clock offset: 0.204 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

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

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

- Flow 1 (95th percentile 50.50 ms)
Run 6: Statistics of SCReAM

Local clock offset: 0.189 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.520 ms
Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link

![Graph 1](image1)

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

![Graph 2](image2)

- Flow 1 (95th percentile 49.52 ms)
Run 7: Statistics of SCReAM

Start at: 2018-05-25 23:45:51
Local clock offset: -0.183 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-05-26 00:06:15
End at: 2018-05-26 00:06:45
Local clock offset: -0.194 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

[Graph showing throughput over time with two plots: one for Flow 1 ingress (mean 0.22 Mbit/s) and one for Flow 1 egress (mean 0.22 Mbit/s).]

[Graph showing per-packet one-way delay (ms) over time with two plots: one for Flow 1 (95th percentile 51.01 ms).]
Run 9: Statistics of SCReAM

Start at: 2018-05-26 00:26:46
End at: 2018-05-26 00:27:16
Local clock offset: -0.223 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.804 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

![Graph showing network performance metrics]

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

![Graph showing packet delay distribution]

- **Flow 1 (95th percentile 49.80 ms)**
Run 10: Statistics of SCReAM

Start at: 2018-05-26 00:47:17
End at: 2018-05-26 00:47:47
Local clock offset: -0.254 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.719 ms
Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

```
Flow 1 ingress (mean 0.22 Mbit/s)  Flow 1 egress (mean 0.22 Mbit/s)
```

```
Flow 1 (95th percentile 50.72 ms)
```
Run 1: Statistics of Sprout

Local clock offset: -0.198 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 7.79 Mbit/s
  95th percentile per-packet one-way delay: 50.757 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.79 Mbit/s
  95th percentile per-packet one-way delay: 50.757 ms
  Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Local clock offset: -0.569 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 51.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 51.774 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 7.36 Mb/s)**
- **Flow 1 egress (mean 7.36 Mb/s)**

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

- **Flow 1 (95th percentile 51.77 ms)**

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Run 3: Statistics of Sprout

Start at: 2018-05-25 22:20:02
Local clock offset: -0.55 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

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

- **Flow 1 ingress** (mean 7.63 Mbit/s)
- **Flow 1 egress** (mean 7.63 Mbit/s)

- **Per-packet one-way delay** (95th percentile 51.94 ms)
Run 4: Statistics of Sprout

Local clock offset: -0.245 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.34 Mbit/s
95th percentile per-packet one-way delay: 50.508 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-05-25 23:01:03
End at: 2018-05-25 23:01:33
Local clock offset: 0.192 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 50.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 50.944 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Local clock offset: -0.182 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 50.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 50.931 ms
Loss rate: 0.00%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Local clock offset: -0.217 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-05-26 00:02:19
End at: 2018-05-26 00:02:49
Local clock offset: -0.196 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 51.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 51.294 ms
Loss rate: 0.00%
Run 8: Report of Sprout — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with 7.60 Mbit/s mean].

![Graph showing per-packet end-to-end delay for Flow 1 with 95th percentile of 51.29 ms].
Run 9: Statistics of Sprout

Start at: 2018-05-26 00:22:50
End at: 2018-05-26 00:23:20
Local clock offset: -0.266 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 51.343 ms
Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

[Graph showing throughput over time with annotations for flow ingress and egress (mean 7.30 Mbit/s)]

[Graph showing average packet delay over time with annotation for flow 1 95th percentile 51.34 ms]
Run 10: Statistics of Sprout

Start at: 2018-05-26 00:43:22
End at: 2018-05-26 00:43:52
Local clock offset: -0.26 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-05-26 02:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 51.317 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 51.317 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link

![Graph of Throughput (Mbps) over time]

- **Flow 1 ingress** (mean 7.03 Mbps)
- **Flow 1 egress** (mean 7.03 Mbps)

![Graph of Average Packet Data Way Delay (ms) over time]

- *Flow 1 (95th percentile 51.32 ms)*
Run 1: Statistics of TaoVA-100x

End at: 2018-05-25 21:44:15
Local clock offset: -0.159 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-26 02:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.57 Mbit/s
95th percentile per-packet one-way delay: 50.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.57 Mbit/s
95th percentile per-packet one-way delay: 50.388 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Local clock offset: -0.508 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 02:14:37
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 202.77 Mbit/s
  95th percentile per-packet one-way delay: 58.978 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 202.77 Mbit/s
  95th percentile per-packet one-way delay: 58.978 ms
  Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

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

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

Flow 1 ingress (mean 202.77 Mbit/s)  Flow 1 egress (mean 202.77 Mbit/s)

Flow 1 (95th percentile 58.98 ms)
Run 3: Statistics of TaoVA-100x

Local clock offset: -0.14 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-05-26 02:14:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.85 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.85 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Local clock offset: -0.291 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-05-26 02:14:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 227.21 Mbit/s
  95th percentile per-packet one-way delay: 50.601 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 227.21 Mbit/s
  95th percentile per-packet one-way delay: 50.601 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 227.21 Mbit/s)
  - Flow 1 egress (mean 227.21 Mbit/s)

- Per-packet one-way delay (ms)
  - Flow 1 (95th percentile 50.60 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 23:06:03
End at: 2018-05-25 23:06:33
Local clock offset: -0.489 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-05-26 02:14:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.24 Mbit/s
95th percentile per-packet one-way delay: 53.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.24 Mbit/s
95th percentile per-packet one-way delay: 53.394 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Local clock offset: -0.122 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-05-26 02:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 50.801 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link

Throughput (Mbps) over time:

- Flow 1 ingress (mean 223.52 Mbps)
- Flow 1 egress (mean 223.52 Mbps)

Per-packet one-way delay (ms) over time:

- Flow 1 (95th percentile 50.80 ms)
Run 7: Statistics of TaoVA-100x

Local clock offset: -0.163 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 02:19:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 254.95 Mbit/s
  95th percentile per-packet one-way delay: 50.246 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 254.95 Mbit/s
  95th percentile per-packet one-way delay: 50.246 ms
  Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 254.94 Mbit/s)
- Flow 1 egress (mean 254.95 Mbit/s)

![Packet Delay Graph]

- Flow 1 (95th percentile 50.25 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 00:07:20
End at: 2018-05-26 00:07:50
Local clock offset: -0.179 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-26 02:19:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.16 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.16 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 00:27:51
End at: 2018-05-26 00:28:21
Local clock offset: 0.142 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 02:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 50.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 50.238 ms
Loss rate: 0.00%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 00:48:23
End at: 2018-05-26 00:48:53
Local clock offset: -0.208 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.35 Mbit/s
95th percentile per-packet one-way delay: 52.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.35 Mbit/s
95th percentile per-packet one-way delay: 52.339 ms
Loss rate: 0.00%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

End at: 2018-05-25 21:46:45
Local clock offset: -0.239 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.56 Mbit/s
95th percentile per-packet one-way delay: 58.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.56 Mbit/s
95th percentile per-packet one-way delay: 58.837 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Local clock offset: 0.221 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.33 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 128.33 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

![Graph of throughput and latency over time for Flow 1 ingress and egress with mean of 128.32 Mbps and 128.33 Mbps respectively.]

- **Flow 1 ingress (mean 128.32 Mbps)**
- **Flow 1 egress (mean 128.33 Mbps)**

![Graph of per-packet round-trip delay for Flow 1 with 95th percentile of 50.86 ms.]

*Flow 1 (95th percentile 50.86 ms)*
Run 3: Statistics of TCP Vegas

Local clock offset: -0.568 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.70 Mbit/s
95th percentile per-packet one-way delay: 51.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.70 Mbit/s
95th percentile per-packet one-way delay: 51.943 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

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

![Graph 2: Packet Loss vs Time](image2)
Run 4: Statistics of TCP Vegas

Local clock offset: -0.601 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.98 Mbit/s
95th percentile per-packet one-way delay: 59.268 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 226.98 Mbit/s
95th percentile per-packet one-way delay: 59.268 ms
Loss rate: 0.04%
Run 4: Report of TCP Vegas — Data Link

[Graph showing throughput and packet loss over time]

Flow 1 ingress (mean 227.07 Mbit/s) | Flow 1 egress (mean 226.98 Mbit/s)

[Graph showing packet loss distribution]

Flow 1 (95th percentile 59.27 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 23:08:34
Local clock offset: -0.604 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 51.771 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 52.76 Mbit/s
95th percentile per-packet one-way delay: 51.771 ms
Loss rate: 0.03%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Local clock offset: -0.175 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

End at: 2018-05-25 23:50:00
Local clock offset: -0.174 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-05-26 02:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 51.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 51.480 ms
Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

Graph 1: Throughput (Mbps/s) vs Time (s)
- Flow 1 ingress (mean 84.29 Mbps/s)
- Flow 1 egress (mean 84.28 Mbps/s)

Graph 2: Packet delay (ms) vs Time (s)
- Flow 1 (95th percentile 51.48 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 00:09:50
End at: 2018-05-26 00:10:20
Local clock offset: 0.151 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-05-26 02:21:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.89 Mbit/s
95th percentile per-packet one-way delay: 58.942 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 230.89 Mbit/s
95th percentile per-packet one-way delay: 58.942 ms
Loss rate: 0.00%
Run 8: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 230.93 Mbit/s)
- Flow 1 egress (mean 230.89 Mbit/s)
- Flow 1 (95th percentile 58.94 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 00:30:22
End at: 2018-05-26 00:30:52
Local clock offset: -0.196 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-26 02:21:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.73 Mbit/s
95th percentile per-packet one-way delay: 51.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.73 Mbit/s
95th percentile per-packet one-way delay: 51.127 ms
Loss rate: 0.00%
Run 9: Report of TCP Vegas — Data Link

![Graph showing throughput over time for Flow 1 ingress (mean 163.74 Mbit/s) and Flow 1 egress (mean 163.73 Mbit/s).]

![Graph showing per-packet one-way delay for Flow 1 (95th percentile 51.13 ms).]
Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 00:50:56
End at: 2018-05-26 00:51:26
Local clock offset: 0.136 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-26 02:21:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 103.37 Mbit/s
95th percentile per-packet one-way delay: 51.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.37 Mbit/s
95th percentile per-packet one-way delay: 51.917 ms
Loss rate: 0.00%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

End at: 2018-05-25 21:51:50
Local clock offset: -0.154 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-05-26 02:21:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.64 Mbit/s
95th percentile per-packet one-way delay: 99.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.64 Mbit/s
95th percentile per-packet one-way delay: 99.975 ms
Loss rate: 0.00%
Run 2: Statistics of Verus

Local clock offset: -0.159 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-05-26 02:24:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.40 Mbit/s
95th percentile per-packet one-way delay: 89.645 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 286.40 Mbit/s
95th percentile per-packet one-way delay: 89.645 ms
Loss rate: 2.06%
Run 2: Report of Verus — Data Link

![Graph: Throughput vs Time](image1)

- Flow 1 ingress (mean 292.55 Mbit/s)
- Flow 1 egress (mean 286.40 Mbit/s)

![Graph: Delay vs Time](image2)

- Flow 1 (95th percentile 89.64 ms)
Run 3: Statistics of Verus

End at: 2018-05-25 22:33:02
Local clock offset: 0.151 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-05-26 02:24:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.70 Mbit/s
95th percentile per-packet one-way delay: 97.957 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 257.70 Mbit/s
95th percentile per-packet one-way delay: 97.957 ms
Loss rate: 2.09%
Run 3: Report of Verus — Data Link

![Graph showing throughput](image1)

- Flow 1 ingress (mean 263.20 Mbit/s)
- Flow 1 egress (mean 257.70 Mbit/s)

![Graph showing per-packet one-way delay](image2)

- Flow 1 (95th percentile 97.96 ms)
Run 4: Statistics of Verus

Local clock offset: -0.192 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-26 02:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.13 Mbit/s
95th percentile per-packet one-way delay: 82.942 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 245.13 Mbit/s
95th percentile per-packet one-way delay: 82.942 ms
Loss rate: 1.51%
Run 4: Report of Verus — Data Link

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**Throughout (Mbps)**

![Throughput Graph](image1)

- Flow 1 ingress (mean 248.94 Mbit/s)
- Flow 1 egress (mean 245.13 Mbit/s)

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

![Delay Graph](image2)

- Flow 1 (95th percentile 82.94 ms)

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Run 5: Statistics of Verus

Local clock offset: 0.203 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-05-26 02:24:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.29 Mbit/s
95th percentile per-packet one-way delay: 102.613 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 218.29 Mbit/s
95th percentile per-packet one-way delay: 102.613 ms
Loss rate: 0.01%
Run 5: Report of Verus — Data Link

![Graphs showing throughput and per packet delay](image-url)
Run 6: Statistics of Verus

Local clock offset: -0.18 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-05-26 02:25:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.80 Mbit/s
95th percentile per-packet one-way delay: 105.994 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 238.80 Mbit/s
95th percentile per-packet one-way delay: 105.994 ms
Loss rate: 1.02%
Run 6: Report of Verus — Data Link

[Graph showing throughput and packet delay over time with annotations for Flow 1 ingress and egress.]
Run 7: Statistics of Verus

Local clock offset: 0.164 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-26 02:25:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.84 Mbit/s
95th percentile per-packet one-way delay: 93.573 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 244.84 Mbit/s
95th percentile per-packet one-way delay: 93.573 ms
Loss rate: 1.03%
Run 7: Report of Verus — Data Link

[Graphs showing throughput and packet delay over time for flow 1, with labels for ingress and egress mean values.]
Run 8: Statistics of Verus

Start at: 2018-05-26 00:14:50
End at: 2018-05-26 00:15:20
Local clock offset: 0.133 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-05-26 02:25:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.86 Mbit/s
95th percentile per-packet one-way delay: 182.697 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 257.86 Mbit/s
95th percentile per-packet one-way delay: 182.697 ms
Loss rate: 0.60%
Run 8: Report of Verus — Data Link

![Graph of Throughput vs Time](image1)

- **Flow 1 ingress (mean 259.70 Mbit/s)**
- **Flow 1 egress (mean 257.86 Mbit/s)**

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

- **Flow 1 (95th percentile 182.70 ms)**
Run 9: Statistics of Verus

Start at: 2018-05-26 00:35:23
End at: 2018-05-26 00:35:53
Local clock offset: 0.091 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-05-26 02:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.53 Mbit/s
95th percentile per-packet one-way delay: 218.417 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 265.53 Mbit/s
95th percentile per-packet one-way delay: 218.417 ms
Loss rate: 3.87%
Run 9: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 276.21 Mbit/s)  Flow 1 egress (mean 265.53 Mbit/s)

Per packet drug way delay (ms)

Time (s)

Flow 1 (95th percentile 218.42 ms)
Run 10: Statistics of Verus

Start at: 2018-05-26 00:55:54
End at: 2018-05-26 00:56:24
Local clock offset: -0.243 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-26 02:27:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 274.91 Mbit/s
95th percentile per-packet one-way delay: 119.600 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 274.91 Mbit/s
95th percentile per-packet one-way delay: 119.600 ms
Loss rate: 0.23%
Run 10: Report of Verus — Data Link

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

- Flow 1 ingress (mean 275.56 Mbit/s)
- Flow 1 egress (mean 274.91 Mbit/s)

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

- Flow 1 (95th percentile 119.60 ms)
Run 1: Statistics of PCC-Vivace

Local clock offset: -0.185 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-26 02:29:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.40 Mbit/s
95th percentile per-packet one-way delay: 52.249 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 302.40 Mbit/s
95th percentile per-packet one-way delay: 52.249 ms
Loss rate: 0.28%
Run 1: Report of PCC-Vivace — Data Link

![Graph showing throughput and delay](image)

**Throughput (Mbps):**
- Flow 1 ingress (mean 303.55 Mbps)
- Flow 1 egress (mean 302.40 Mbps)

**Packet delay (ms):**
- Flow 1 (95th percentile 52.25 ms)
Run 2: Statistics of PCC-Vivace

Local clock offset: -0.557 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 02:30:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.01 Mbit/s
95th percentile per-packet one-way delay: 53.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 380.01 Mbit/s
95th percentile per-packet one-way delay: 53.083 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Local clock offset: -0.526 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-05-26 02:30:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.55 Mbit/s
95th percentile per-packet one-way delay: 72.840 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 366.55 Mbit/s
95th percentile per-packet one-way delay: 72.840 ms
Loss rate: 0.07%
Run 3: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps) over time (s) for Flow 1 ingress and egress.]

![Graph 2: RTT (ms) for Flow 1 with a 95th percentile of 72.84 ms.]
Run 4: Statistics of PCC-Vivace

Local clock offset: -0.266 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-26 02:31:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 405.16 Mbit/s
95th percentile per-packet one-way delay: 60.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 405.16 Mbit/s
95th percentile per-packet one-way delay: 60.086 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph of Throughput (Mbps)](image)

Flow 1 ingress (mean 405.15 Mbit/s)  Flow 1 egress (mean 405.16 Mbit/s)

![Graph of Per Packet One Way Delay (ms)](image)

Flow 1 (95th percentile 60.09 ms)
Run 5: Statistics of PCC-Vivace

End at: 2018-05-25 23:00:08
Local clock offset: -0.189 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-05-26 02:31:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.58 Mbit/s
95th percentile per-packet one-way delay: 52.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 309.58 Mbit/s
95th percentile per-packet one-way delay: 52.900 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 399.59 Mbit/s)
- Flow 1 egress (mean 399.58 Mbit/s)

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

- Flow 1 (95th percentile 52.90 ms)
Run 6: Statistics of PCC-Vivace

Local clock offset: 0.19 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 02:32:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 407.84 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 407.84 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
Run 7: Statistics of PCC-Vivace

End at: 2018-05-25 23:40:52
Local clock offset: -0.16 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-26 02:32:24
# Datalink statistics

-- Total of 1 flow:
Average throughput: 393.38 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 393.38 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 0.00%
Run 7: Report of PCC-Vivace — Data Link

![Graph 1](image1)

*Flow 1 ingress (mean 393.37 Mbit/s) — Flow 1 egress (mean 393.38 Mbit/s)*

![Graph 2](image2)

*Flow 1 [95th percentile 53.97 ms]*
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 00:00:52
End at: 2018-05-26 00:01:22
Local clock offset: -0.174 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 02:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.28 Mbit/s
95th percentile per-packet one-way delay: 51.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 330.28 Mbit/s
95th percentile per-packet one-way delay: 51.863 ms
Loss rate: 0.00%
Run 8: Report of PCC-Vivace — Data Link
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 00:21:22
End at: 2018-05-26 00:21:52
Local clock offset: -0.21 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-05-26 02:32:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.02 Mbit/s
95th percentile per-packet one-way delay: 51.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 369.02 Mbit/s
95th percentile per-packet one-way delay: 51.188 ms
Loss rate: 0.00%
Run 9: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 369.01 Mbit/s)**
- **Flow 1 egress (mean 369.02 Mbit/s)**

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Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 00:41:54
End at: 2018-05-26 00:42:24
Local clock offset: -0.227 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.74 Mbit/s
95th percentile per-packet one-way delay: 62.547 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 369.74 Mbit/s
95th percentile per-packet one-way delay: 62.547 ms
Loss rate: 0.06%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Local clock offset: -0.169 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

End at: 2018-05-25 21:54:34
Local clock offset: -0.551 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.665 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 0.05 Mbit/s)**
- **Flow 1 egress (mean 0.05 Mbit/s)**

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

- **Flow 1 (95th percentile 53.66 ms)**
Run 3: Statistics of WebRTC media

Local clock offset: -0.16 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.385 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.385 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 0.05 Mbit/s)**
- **Flow 1 egress (mean 0.05 Mbit/s)**

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

- **Flow 1 (95th percentile 50.38 ms)**
Run 4: Statistics of WebRTC media

Start at: 2018-05-25 22:35:08
Local clock offset: -0.236 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.487 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing Throughput and Packet One-Way Delay]

**Throughput (Mbps)**

- Flow 1 ingress (mean 0.05 Mbps)
- Flow 1 egress (mean 0.05 Mbps)

**Packet One-Way Delay (ms)**

- Flow 1 (95th percentile 50.49 ms)
Run 5: Statistics of WebRTC media

Local clock offset: -0.162 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graph showing WebRTC media throughput and delay](chart.png)
Run 6: Statistics of WebRTC media

Local clock offset: -0.167 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
 Average throughput: 0.05 Mbit/s
 95th percentile per-packet one-way delay: 50.829 ms
 Loss rate: 0.00%
-- Flow 1:
 Average throughput: 0.05 Mbit/s
 95th percentile per-packet one-way delay: 50.829 ms
 Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-05-25 23:36:34
Local clock offset: -0.18 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 0.05 Mbps)**
- **Flow 1 egress (mean 0.05 Mbps)**

![Graph of Packet Loss Delay (ms) over time](image2)

- **Flow 1 (95th percentile 50.60 ms)**
Run 8: Statistics of WebRTC media

Local clock offset: 0.184 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 49.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 49.840 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

[Graph showing throughput over time for Flow 1 ingress and egress]

[Graph showing packet error rate over time for Flow 1]
Run 9: Statistics of WebRTC media

Start at: 2018-05-26 00:17:30
End at: 2018-05-26 00:18:00
Local clock offset: -0.266 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link

![Graphs showing throughput and packet delay over time]
Run 10: Statistics of WebRTC media

Start at: 2018-05-26 00:38:01
End at: 2018-05-26 00:38:31
Local clock offset: 0.144 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.502 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.502 ms
  Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for two flows: Flow 1 ingress (mean 0.05 Mbit/s) and Flow 1 egress (mean 0.05 Mbit/s).]