Pantheon Report

Generated at 2018-06-07 16:11:31 (UTC).
Data path: GCE Iowa Ethernet (remote) → GCE London Ethernet (local).
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 @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cfcf
third_party/pantheon-tunnel @ 6f038ed312594366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1a6c956fa066d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8aad08fab92c4eb24f974ab
third_party/proto-quic @ 77961faa82733a86b42f1bc8143ebc978f3ccf42
third_party/scream-reproduce @ f099118d1421a313bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92af9a596a406d48c1f
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ db447e7a74c6cc60a261149af2629562939f9a94
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Iowa to GCE London, 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></td>
<td></td>
<td>flow 1</td>
<td>flow 1</td>
<td>flow 1</td>
</tr>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>223.85</td>
<td>56.32</td>
<td>0.35</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>124.83</td>
<td>52.08</td>
<td>0.38</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>170.53</td>
<td>58.28</td>
<td>0.35</td>
</tr>
<tr>
<td>FillP</td>
<td>10</td>
<td>584.73</td>
<td>221.91</td>
<td>0.71</td>
</tr>
<tr>
<td>Indigo</td>
<td>9</td>
<td>202.79</td>
<td>50.49</td>
<td>0.35</td>
</tr>
<tr>
<td>LEDBAT</td>
<td>10</td>
<td>33.80</td>
<td>51.52</td>
<td>0.68</td>
</tr>
<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>340.70</td>
<td>73.01</td>
<td>0.40</td>
</tr>
<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>247.52</td>
<td>51.64</td>
<td>0.37</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>9</td>
<td>69.76</td>
<td>50.75</td>
<td>0.43</td>
</tr>
<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>50.34</td>
<td>0.28</td>
</tr>
<tr>
<td>Sprout</td>
<td>10</td>
<td>6.43</td>
<td>50.92</td>
<td>0.39</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>208.05</td>
<td>50.71</td>
<td>0.38</td>
</tr>
<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>125.44</td>
<td>53.18</td>
<td>0.29</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>237.31</td>
<td>118.96</td>
<td>0.50</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>331.67</td>
<td>53.00</td>
<td>0.39</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>9</td>
<td>1.96</td>
<td>50.49</td>
<td>0.39</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-07 11:28:09
End at: 2018-06-07 11:28:39
Local clock offset: -0.064 ms
Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2018-06-07 15:01:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.77 Mbit/s
95th percentile per-packet one-way delay: 57.937 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 223.77 Mbit/s
95th percentile per-packet one-way delay: 57.937 ms
Loss rate: 0.35%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

End at: 2018-06-07 11:48:42
Local clock offset: 0.011 ms
Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-06-07 15:01:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.25 Mbit/s
95th percentile per-packet one-way delay: 56.071 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 224.25 Mbit/s
95th percentile per-packet one-way delay: 56.071 ms
Loss rate: 0.35%
Run 2: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 224.27 Mbps)
- Flow 1 egress (mean 224.25 Mbps)

![Graph 2: Two-way delays (ms)](image2)

- Flow 1 (95th percentile 56.07 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-06-07 12:08:08
End at: 2018-06-07 12:08:38
Local clock offset: -0.365 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-07 15:01:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.87 Mbit/s
95th percentile per-packet one-way delay: 58.488 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 224.87 Mbit/s
95th percentile per-packet one-way delay: 58.488 ms
Loss rate: 0.34%
Run 3: Report of TCP BBR — Data Link

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

Start at: 2018-06-07 12:28:34
End at: 2018-06-07 12:29:04
Local clock offset: -0.359 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-07 15:01:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.50 Mbit/s
95th percentile per-packet one-way delay: 58.031 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 224.50 Mbit/s
95th percentile per-packet one-way delay: 58.031 ms
Loss rate: 0.34%
Run 5: Statistics of TCP BBR

End at: 2018-06-07 12:49:01
Local clock offset: -0.386 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-07 15:01:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.53 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 222.53 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.35%
Run 5: Report of TCP BBR — Data Link

![Throughput Graph]

![Delay Graph]
Run 6: Statistics of TCP BBR

Start at: 2018-06-07 13:08:51
End at: 2018-06-07 13:09:21
Local clock offset: 0.385 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-07 15:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.33 Mbit/s
95th percentile per-packet one-way delay: 56.735 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 226.33 Mbit/s
95th percentile per-packet one-way delay: 56.735 ms
Loss rate: 0.34%
Run 6: Report of TCP BBR — Data Link

![Graph of throughput and packet delay](image-url)
Run 7: Statistics of TCP BBR

End at: 2018-06-07 13:29:34
Local clock offset: -0.028 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-06-07 15:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.79 Mbit/s
95th percentile per-packet one-way delay: 51.920 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 224.79 Mbit/s
95th percentile per-packet one-way delay: 51.920 ms
Loss rate: 0.36%
Run 7: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time for Flow 1.](image1)

![Graph showing packet delay distribution for Flow 1.](image2)
Run 8: Statistics of TCP BBR

Local clock offset: -0.447 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-06-07 15:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.02 Mbit/s
95th percentile per-packet one-way delay: 58.246 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 224.02 Mbit/s
95th percentile per-packet one-way delay: 58.246 ms
Loss rate: 0.34%
Run 8: Report of TCP BBR — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 224.04 Mb/s)
Flow 1 egress (mean 224.02 Mb/s)

Round-trip time (ms)

Time (s)

Flow 1 (95th percentile 58.25 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-07 14:09:10
End at: 2018-06-07 14:09:40
Local clock offset: -0.05 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-07 15:05:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.40 Mbit/s
95th percentile per-packet one-way delay: 56.403 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 221.40 Mbit/s
95th percentile per-packet one-way delay: 56.403 ms
Loss rate: 0.35%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-06-07 14:29:20
End at: 2018-06-07 14:29:50
Local clock offset: -0.667 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-07 15:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.04 Mbit/s
95th percentile per-packet one-way delay: 58.263 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 222.04 Mbit/s
95th percentile per-packet one-way delay: 58.263 ms
Loss rate: 0.36%
Run 10: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

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

- Flow 1 ingress (mean 222.14 Mbps)
- Flow 1 egress (mean 222.04 Mbps)

Flow 1 (95th percentile 58.26 ms)
Run 1: Statistics of Copa

Start at: 2018-06-07 11:32:42
End at: 2018-06-07 11:33:12
Local clock offset: -0.017 ms
Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2018-06-07 15:05:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.44 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 137.44 Mbit/s
95th percentile per-packet one-way delay: 51.010 ms
Loss rate: 0.29%
Run 1: Report of Copa — Data Link

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

- Flow 1 ingress (mean 137.38 Mbit/s)
- Flow 1 egress (mean 137.44 Mbit/s)

- Flow 1 (95th percentile 51.01 ms)
Run 2: Statistics of Copa

Start at: 2018-06-07 11:52:56
End at: 2018-06-07 11:53:26
Local clock offset: 0.017 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-07 15:05:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.06 Mbit/s
95th percentile per-packet one-way delay: 52.314 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 131.06 Mbit/s
95th percentile per-packet one-way delay: 52.314 ms
Loss rate: 0.57%
Run 2: Report of Copa — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 131.38 Mbps)**
- **Flow 1 egress (mean 131.06 Mbps)**

---

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

- **Flow 1 (95th percentile 52.31 ms)**
Run 3: Statistics of Copa

Start at: 2018-06-07 12:12:54
Local clock offset: 0.37 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-07 15:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.20 Mbit/s
95th percentile per-packet one-way delay: 51.449 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 160.20 Mbit/s
95th percentile per-packet one-way delay: 51.449 ms
Loss rate: 0.41%
Run 3: Report of Copa — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 160.34 Mbit/s)
- **Flow 1 egress** (mean 160.29 Mbit/s)

---

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

- **Flow 1** (95th percentile 51.45 ms)
Run 4: Statistics of Copa

Start at: 2018-06-07 12:33:20
End at: 2018-06-07 12:33:50
Local clock offset: -0.002 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-07 15:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 52.974 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 52.974 ms
Loss rate: 0.60%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 91.05 Mbps)
- Flow 1 egress (mean 90.80 Mbps)

![Graph 2: Per-packet end-to-end delay (ms)](image2)

- Flow 1 (95th percentile 52.97 ms)
Run 5: Statistics of Copa

Start at: 2018-06-07 12:53:17
End at: 2018-06-07 12:53:47
Local clock offset: -0.006 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-07 15:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.35 Mbit/s
95th percentile per-packet one-way delay: 52.159 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 128.35 Mbit/s
95th percentile per-packet one-way delay: 52.159 ms
Loss rate: 0.50%
Run 5: Report of Copa — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 128.53 Mbit/s)  Flow 1 egress (mean 128.35 Mbit/s)

Per-packet one way delay (ms)

Flow 1 (95th percentile 52.18 ms)
Run 6: Statistics of Copa

End at: 2018-06-07 13:14:08
Local clock offset: -0.002 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 15:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.54 Mbit/s
95th percentile per-packet one-way delay: 53.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.54 Mbit/s
95th percentile per-packet one-way delay: 53.650 ms
Loss rate: 0.00%
Run 6: Report of Copa — Data Link

![Graph of data link throughput over time]

![Graph of packet delay over time]

Flow 1 ingress (mean 122.58 Mbit/s)  Flow 1 egress (mean 122.54 Mbit/s)

Flow 1 (95th percentile 53.65 ms)
Run 7: Statistics of Copa

End at: 2018-06-07 13:34:21
Local clock offset: -0.035 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-07 15:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 102.33 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 102.33 Mbit/s
95th percentile per-packet one-way delay: 50.674 ms
Loss rate: 0.38%
Run 7: Report of Copa — Data Link
Run 8: Statistics of Copa

End at: 2018-06-07 13:54:20
Local clock offset: -0.091 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-06-07 15:09:24
# Datalink statistics
   -- Total of 1 flow:
      Average throughput: 134.06 Mbit/s
      95th percentile per-packet one-way delay: 52.880 ms
      Loss rate: 0.18%
   -- Flow 1:
      Average throughput: 134.06 Mbit/s
      95th percentile per-packet one-way delay: 52.880 ms
      Loss rate: 0.18%
Run 8: Report of Copa — Data Link

![Graph](image)

Flow 1 ingress (mean 134.13 Mbit/s)  Flow 1 egress (mean 134.06 Mbit/s)

![Graph](image)

Flow 1 (95th percentile 52.88 ms)
Run 9: Statistics of Copa

End at: 2018-06-07 14:14:25
Local clock offset: -0.222 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 15:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.30 Mbit/s
95th percentile per-packet one-way delay: 52.875 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 130.30 Mbit/s
95th percentile per-packet one-way delay: 52.875 ms
Loss rate: 0.52%
Run 9: Report of Copa — Data Link
Run 10: Statistics of Copa

Start at: 2018-06-07 14:34:07
End at: 2018-06-07 14:34:37
Local clock offset: -0.697 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 15:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.24 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 111.24 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.38%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 11:36:11
End at: 2018-06-07 11:36:41
Local clock offset: -0.035 ms
Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2018-06-07 15:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.17 Mbit/s
95th percentile per-packet one-way delay: 57.540 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 152.17 Mbit/s
95th percentile per-packet one-way delay: 57.540 ms
Loss rate: 0.30%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 11:56:30
End at: 2018-06-07 11:57:00
Local clock offset: -0.01 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 15:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.81 Mbit/s
95th percentile per-packet one-way delay: 57.009 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 141.81 Mbit/s
95th percentile per-packet one-way delay: 57.009 ms
Loss rate: 0.33%
Run 2: Report of TCP Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 141.80 Mbit/s)  Flow 1 egress (mean 141.81 Mbit/s)

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

Time (s)

Flow 1 (95th percentile 57.01 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 12:16:33
End at: 2018-06-07 12:17:03
Local clock offset: 0.007 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 15:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.12 Mbit/s
95th percentile per-packet one-way delay: 57.768 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 171.12 Mbit/s
95th percentile per-packet one-way delay: 57.768 ms
Loss rate: 0.28%
Run 3: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 171.02 Mbit/s)
- Flow 1 egress (mean 171.12 Mbit/s)

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

- Flow 1 (95th percentile 57.77 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 12:36:47
End at: 2018-06-07 12:37:17
Local clock offset: 0.386 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 15:09:37
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 166.59 Mbit/s
  95th percentile per-packet one-way delay: 58.057 ms
  Loss rate: 0.31%
-- Flow 1:
  Average throughput: 166.59 Mbit/s
  95th percentile per-packet one-way delay: 58.057 ms
  Loss rate: 0.31%
Run 4: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time for Flow 1 with mean 166.54 Mbps and 166.59 Mbps for ingress and egress respectively.]

![Graph showing packet delay over time for Flow 1 with 95th percentile of 58.06 ms.]

51
Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 12:56:51
End at: 2018-06-07 12:57:22
Local clock offset: -0.335 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-07 15:11:11
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 187.58 Mbit/s
  95th percentile per-packet one-way delay: 59.963 ms
  Loss rate: 0.24%
-- Flow 1:
  Average throughput: 187.58 Mbit/s
  95th percentile per-packet one-way delay: 59.963 ms
  Loss rate: 0.24%
Run 5: Report of TCP Cubic — Data Link

![Throughput Graph]

![Packet Delay Graph]
Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 13:17:10
End at: 2018-06-07 13:17:40
Local clock offset: 0.039 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.98 Mbit/s
95th percentile per-packet one-way delay: 61.388 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 228.98 Mbit/s
95th percentile per-packet one-way delay: 61.388 ms
Loss rate: 0.36%
Run 6: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 229.06 Mbps)**
- **Flow 1 egress (mean 228.98 Mbps)**

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

- **Flow 1 (95th percentile 61.39 ms)**
Run 7: Statistics of TCP Cubic

Local clock offset: -0.058 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-07 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.36 Mbit/s
95th percentile per-packet one-way delay: 58.133 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 193.36 Mbit/s
95th percentile per-packet one-way delay: 58.133 ms
Loss rate: 0.26%
Run 7: Report of TCP Cubic — Data Link

![Throughput Graph](image1)

![Packet Delay Graph](image2)

Flow 1 ingress (mean 193.23 Mbit/s) — Flow 1 egress (mean 193.36 Mbit/s)

Flow 1 (95th percentile 58.13 ms)
Run 8: Statistics of TCP Cubic

End at: 2018-06-07 13:57:51
Local clock offset: -0.108 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-07 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.36 Mbit/s
95th percentile per-packet one-way delay: 58.388 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 157.36 Mbit/s
95th percentile per-packet one-way delay: 58.388 ms
Loss rate: 0.53%
Run 8: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 157.69 Mbit/s)
- Flow 1 egress (mean 157.36 Mbit/s)

![Graph of RTT (ms) over Time (s)]

- Flow 1 (95th percentile 58.39 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 14:17:31
End at: 2018-06-07 14:18:01
Local clock offset: -0.207 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.98 Mbit/s
95th percentile per-packet one-way delay: 58.025 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 169.98 Mbit/s
95th percentile per-packet one-way delay: 58.025 ms
Loss rate: 0.48%
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 170.26 Mbit/s)  Flow 1 egress (mean 169.98 Mbit/s)

Flow 1 (95th percentile 58.02 ms)
Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 14:37:35
End at: 2018-06-07 14:38:05
Local clock offset: -0.225 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-07 15:11:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.38 Mbit/s
95th percentile per-packet one-way delay: 56.543 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 136.38 Mbit/s
95th percentile per-packet one-way delay: 56.543 ms
Loss rate: 0.38%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2018-06-07 11:44:15
End at: 2018-06-07 11:44:45
Local clock offset: -0.028 ms
Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-06-07 15:23:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 717.90 Mbit/s
95th percentile per-packet one-way delay: 222.151 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 717.90 Mbit/s
95th percentile per-packet one-way delay: 222.151 ms
Loss rate: 0.82%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2018-06-07 12:04:23
End at: 2018-06-07 12:04:53
Local clock offset: -0.019 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-06-07 15:23:46
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 191.63 Mbit/s
  95th percentile per-packet one-way delay: 221.623 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 191.63 Mbit/s
  95th percentile per-packet one-way delay: 221.623 ms
  Loss rate: 0.00%
Run 2: Report of FillP — Data Link

![Throughput vs Time](image1)

- Flow 1 ingress (mean 191.14 Mbit/s)
- Flow 1 egress (mean 191.63 Mbit/s)

![Latency vs Time](image2)

- Flow 1 (95th percentile 221.62 ms)
Run 3: Statistics of FillP

Start at: 2018-06-07 12:24:32
End at: 2018-06-07 12:25:02
Local clock offset: -0.365 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-07 15:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 670.54 Mbit/s
95th percentile per-packet one-way delay: 221.517 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 670.54 Mbit/s
95th percentile per-packet one-way delay: 221.517 ms
Loss rate: 0.62%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2018-06-07 12:44:37
End at: 2018-06-07 12:45:07
Local clock offset: 0.013 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-07 15:24:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 486.81 Mbit/s
95th percentile per-packet one-way delay: 212.298 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 486.81 Mbit/s
95th percentile per-packet one-way delay: 212.298 ms
Loss rate: 1.05%
Run 4: Report of FillP — Data Link

![Diagram of Throughput vs Time]

![Diagram of Packet Delay vs Time]

- Flow 1 ingress (mean 490.31 Mbit/s)
- Flow 1 egress (mean 486.81 Mbit/s)
- Flow 1 (95th percentile 212.30 ms)
Run 5: Statistics of FillP

Start at: 2018-06-07 13:04:51
End at: 2018-06-07 13:05:21
Local clock offset: 0.021 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 15:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 666.95 Mbit/s
95th percentile per-packet one-way delay: 224.092 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 666.95 Mbit/s
95th percentile per-packet one-way delay: 224.092 ms
Loss rate: 1.14%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Local clock offset: 0.007 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-07 15:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 642.40 Mbit/s
95th percentile per-packet one-way delay: 219.064 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 642.40 Mbit/s
95th percentile per-packet one-way delay: 219.064 ms
Loss rate: 0.35%
Run 6: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 642.47 Mbit/s)**
- **Flow 1 egress (mean 642.40 Mbit/s)**

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

- **Flow 1 (95th percentile 219.06 ms)**
Run 7: Statistics of FillP

Start at: 2018-06-07 13:45:05
End at: 2018-06-07 13:45:35
Local clock offset: -0.012 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-06-07 15:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.56 Mbit/s
95th percentile per-packet one-way delay: 221.121 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 615.56 Mbit/s
95th percentile per-packet one-way delay: 221.121 ms
Loss rate: 0.77%
Run 7: Report of FillP — Data Link

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

Flow 1 ingress (mean 618.25 Mbit/s)  Flow 1 egress (mean 615.56 Mbit/s)

![Graph of Per Packet One Way Delay (ms) over Time (s)]

Flow 1 (95th percentile 221.12 ms)
Run 8: Statistics of FillP

Start at: 2018-06-07 14:05:09
End at: 2018-06-07 14:05:39
Local clock offset: -0.418 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 15:24:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 670.31 Mbit/s
95th percentile per-packet one-way delay: 223.053 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 670.31 Mbit/s
95th percentile per-packet one-way delay: 223.053 ms
Loss rate: 0.97%
Run 8: Report of FillP — Data Link

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

- Flow 1 ingress (mean 674.62 Mbit/s)
- Flow 1 egress (mean 670.31 Mbit/s)
Run 9: Statistics of FillP

Start at: 2018-06-07 14:25:18
End at: 2018-06-07 14:25:48
Local clock offset: -0.777 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-07 15:27:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 673.34 Mbit/s
  95th percentile per-packet one-way delay: 234.848 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 673.34 Mbit/s
  95th percentile per-packet one-way delay: 234.848 ms
  Loss rate: 0.84%
Run 9: Report of FillP — Data Link

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

- Flow 1 ingress (mean 676.10 Mbps)
- Flow 1 egress (mean 673.34 Mbps)

Flow 1 (95th percentile: 234.85 ms)
Run 10: Statistics of FillP

Start at: 2018-06-07 14:45:21
End at: 2018-06-07 14:45:51
Local clock offset: -0.465 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.89 Mbit/s
95th percentile per-packet one-way delay: 219.377 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 511.89 Mbit/s
95th percentile per-packet one-way delay: 219.377 ms
Loss rate: 0.58%
Run 10: Report of FillP — Data Link

---

**Throughput (Mbps)**

- Flow 1 ingress (mean 513.13 Mbit/s)
- Flow 1 egress (mean 511.89 Mbit/s)

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

- Flow 1 (95th percentile 219.38 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-07 11:30:30
End at: 2018-06-07 11:31:00
Local clock offset: -0.027 ms
Remote clock offset: 0.245 ms
Run 1: Report of Indigo — Data Link

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

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

![Graph showing packet delay distribution.]

- **Flow 1** (95th percentile 50.23 ms)
Run 2: Statistics of Indigo

Start at: 2018-06-07 11:50:32
End at: 2018-06-07 11:51:02
Local clock offset: -0.013 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.00 Mbit/s
95th percentile per-packet one-way delay: 50.282 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 179.00 Mbit/s
95th percentile per-packet one-way delay: 50.282 ms
Loss rate: 0.32%
Run 2: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 178.98 Mbps)
- **Flow 1 egress** (mean 179.00 Mbps)

![Graph 2: Packet per Flow Delay (ms)]

- **Flow 1** (95th percentile 50.28 ms)
Run 3: Statistics of Indigo

Start at: 2018-06-07 12:10:29
End at: 2018-06-07 12:10:59
Local clock offset: 0.011 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.94 Mbit/s
95th percentile per-packet one-way delay: 50.260 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 197.94 Mbit/s
95th percentile per-packet one-way delay: 50.260 ms
Loss rate: 0.29%
Run 3: Report of Indigo — Data Link

The first graph shows the throughput (Mbps) over time (s) for two flows: Flow 1 ingress (mean 197.85 Mbit/s) and Flow 1 egress (mean 197.94 Mbit/s).

The second graph illustrates the per-packet one-way delay (ms) for Flow 1, with a 95th percentile of 50.26 ms.
Run 4: Statistics of Indigo

Start at: 2018-06-07 12:30:55
End at: 2018-06-07 12:31:25
Local clock offset: 0.01 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.74 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 202.74 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 0.40%
Run 4: Report of Indigo — Data Link

![Graph showing throughput over time with labels for Flow 1 ingress and egress data rates.]

![Graph showing packet latency with label for Flow 1 95th percentile latency.]

91
Run 5: Statistics of Indigo

Start at: 2018-06-07 12:50:52
End at: 2018-06-07 12:51:22
Local clock offset: 0.011 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.32 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 198.32 Mbit/s
95th percentile per-packet one-way delay: 50.893 ms
Loss rate: 0.31%
Run 5: Report of Indigo — Data Link

![Graph showing throughput and latency over time](image-url)
Run 6: Statistics of Indigo

Start at: 2018-06-07 13:11:12
End at: 2018-06-07 13:11:42
Local clock offset: 0.452 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 218.87 Mbit/s
  95th percentile per-packet one-way delay: 50.505 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 218.87 Mbit/s
  95th percentile per-packet one-way delay: 50.505 ms
  Loss rate: 0.34%
Run 6: Report of Indigo — Data Link

---

**Throughput (Mbps):**

- **Flow 1 ingress (mean 218.86 Mbps)**
- **Flow 1 egress (mean 218.87 Mbps)**

**Delay (ms):**

- **Flow 1 (95th percentile 50.51 ms)**
Run 7: Statistics of Indigo

Local clock offset: -0.019 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.04 Mbit/s
95th percentile per-packet one-way delay: 49.750 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 211.04 Mbit/s
95th percentile per-packet one-way delay: 49.750 ms
Loss rate: 0.38%
Run 7: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 211.13 Mbit/s)**
- **Flow 1 egress (mean 211.04 Mbit/s)**

- **Flow 1 (95th percentile 49.75 ms)**
Run 8: Statistics of Indigo

End at: 2018-06-07 13:51:54
Local clock offset: -0.071 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.45 Mbit/s
95th percentile per-packet one-way delay: 50.947 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 207.45 Mbit/s
95th percentile per-packet one-way delay: 50.947 ms
Loss rate: 0.36%
Run 8: Report of Indigo — Data Link

![Throughput Graph](image1)

*Flow 1 ingress (mean 207.50 Mbit/s)  Flow 1 egress (mean 207.45 Mbit/s)*

![Delay Graph](image2)

*Flow 1 (95th percentile 50.95 ms)*
Run 9: Statistics of Indigo

Start at: 2018-06-07 14:11:31
End at: 2018-06-07 14:12:01
Local clock offset: -0.059 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.43 Mbit/s
95th percentile per-packet one-way delay: 51.136 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 192.43 Mbit/s
95th percentile per-packet one-way delay: 51.136 ms
Loss rate: 0.39%
Run 9: Report of Indigo — Data Link

![Graph 1]

Flow 1 ingress (mean 192.53 Mbit/s)  
Flow 1 egress (mean 192.43 Mbit/s)

![Graph 2]

Flow 1 (95th percentile 51.14 ms)
Run 10: Statistics of Indigo

Start at: 2018-06-07 14:31:41
End at: 2018-06-07 14:32:11
Local clock offset: 0.286 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.33 Mbit/s
95th percentile per.packet one-way delay: 50.035 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 217.33 Mbit/s
95th percentile per.packet one-way delay: 50.035 ms
Loss rate: 0.32%
Run 10: Report of Indigo — Data Link

![Graph depicting network traffic](image)

Flow 1 ingress (mean 217.27 Mbit/s)  
Flow 1 egress (mean 217.33 Mbit/s)
Run 1: Statistics of LEDBAT

Start at: 2018-06-07 11:31:35
End at: 2018-06-07 11:32:05
Local clock offset: -0.019 ms
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 0.67%
Run 1: Report of LEDBAT — Data Link

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

*Flow 1 ingress (mean 34.88 Mbit/s)*
*Flow 1 egress (mean 34.76 Mbit/s)*

*Flow 1 95th percentile 50.50 ms*
Run 2: Statistics of LEDBAT

Start at: 2018-06-07 11:51:48
End at: 2018-06-07 11:52:18
Local clock offset: ~0.036 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 33.09 Mbit/s
  95th percentile per-packet one-way delay: 51.050 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 33.09 Mbit/s
  95th percentile per-packet one-way delay: 51.050 ms
  Loss rate: 0.69%
Run 2: Report of LEDBAT — Data Link

![Graph 1: Throughput vs Time]

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

Legend:
- Flow 1 ingress (mean 33.21 Mbit/s)
- Flow 1 egress (mean 33.09 Mbit/s)
- Flow 1 (95th percentile 51.05 ms)
Run 3: Statistics of LEDBAT

Start at: 2018-06-07 12:11:46
End at: 2018-06-07 12:12:16
Local clock offset: 0.021 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.67%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

End at: 2018-06-07 12:32:43
Local clock offset: 0.006 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 51.660 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 33.21 Mbit/s
95th percentile per-packet one-way delay: 51.660 ms
Loss rate: 0.69%
Run 4: Report of LEDBAT — Data Link

![Graph 1](image1.png)

*Flow 1 ingress (mean 33.32 Mbit/s)  Flow 1 egress (mean 33.21 Mbit/s)*

![Graph 2](image2.png)

*Flow 1 (95th percentile 51.66 ms)*
Run 5: Statistics of LEDBAT

Start at: 2018-06-07 12:52:09
End at: 2018-06-07 12:52:39
Local clock offset: 0.004 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 52.053 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 52.053 ms
Loss rate: 0.66%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Start at: 2018-06-07 13:12:31
End at: 2018-06-07 13:13:01
Local clock offset: 0.047 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 51.521 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 51.521 ms
Loss rate: 0.66%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Local clock offset: -0.426 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 50.377 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 50.377 ms
Loss rate: 0.68%
Run 7: Report of LEDBAT — Data Link

![Graph showing data link performance metrics.]

- **Flow 1 ingress (mean 33.71 Mbit/s)**
- **Flow 1 egress (mean 33.59 Mbit/s)**

![Graph showing packet round-trip time.]

- **Flow 1 (95th percentile 50.38 ms)**
Run 8: Statistics of LEDBAT

Start at: 2018-06-07 13:52:42
End at: 2018-06-07 13:53:12
Local clock offset: 0.28 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 52.177 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 52.177 ms
Loss rate: 0.68%
Run 8: Report of LEDBAT — Data Link

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

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

Flow 1 ingress (mean 34.72 Mbit/s)  
Flow 1 egress (mean 34.61 Mbit/s)
Run 9: Statistics of LEDBAT

Start at: 2018-06-07 14:12:48
End at: 2018-06-07 14:13:18
Local clock offset: -0.162 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 52.341 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 52.341 ms
Loss rate: 0.68%
Run 9: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 34.11 Mbps)
- Flow 1 egress (mean 33.99 Mbps)

![Graph 2: Average packet round-trip delay (ms) vs Time (s)]

- Flow 1 (95th percentile 52.34 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-06-07 14:33:00
End at: 2018-06-07 14:33:30
Local clock offset: 0.735 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-07 15:31:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 51.989 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 51.989 ms
Loss rate: 0.73%
Run 10: Report of LEDBAT — Data Link

The graphs show the throughput (Mbps) over time for two flows:
- Flow 1 ingress (mean 29.34 Mbps)
- Flow 1 egress (mean 29.22 Mbps)

The second graph illustrates the PER (Packet Error Rate) over time for Flow 1, with 99th percentile delay at 51.99 ms.
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 11:38:50
End at: 2018-06-07 11:39:20
Local clock offset: -0.047 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-07 15:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.75 Mbit/s
95th percentile per-packet one-way delay: 58.770 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 333.75 Mbit/s
95th percentile per-packet one-way delay: 58.770 ms
Loss rate: 0.36%
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 11:59:09
End at: 2018-06-07 11:59:39
Local clock offset: -0.008 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-07 15:35:13
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 351.01 Mbit/s
  95th percentile per-packet one-way delay: 71.861 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 351.01 Mbit/s
  95th percentile per-packet one-way delay: 71.861 ms
  Loss rate: 0.37%
Run 2: Report of PCC-Allegro — Data Link

---

**Throughput (Mbps)**

- Flow 1 ingress (mean 351.12 Mbit/s)
- Flow 1 egress (mean 351.01 Mbit/s)

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

- Flow 1 (95th percentile 71.86 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 12:19:12
End at: 2018-06-07 12:19:42
Local clock offset: 0.001 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 15:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.70 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 361.70 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 0.41%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 361.96 Mbit/s)
- Flow 1 egress (mean 361.79 Mbit/s)

![Graph of Fine-grained one-way delay (ms) vs Time (s)]

- Flow 1 (95th percentile 63.37 ms)
Run 4: Statistics of PCC-Allegro

End at: 2018-06-07 12:39:52
Local clock offset: 0.004 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 15:35:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.34 Mbit/s
95th percentile per-packet one-way delay: 75.453 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 332.34 Mbit/s
95th percentile per-packet one-way delay: 75.453 ms
Loss rate: 0.46%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 12:59:31
End at: 2018-06-07 13:00:01
Local clock offset: 0.029 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-07 15:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.96 Mbit/s
95th percentile per-packet one-way delay: 78.272 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 343.96 Mbit/s
95th percentile per-packet one-way delay: 78.272 ms
Loss rate: 0.44%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Local clock offset: 0.012 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-07 15:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.35 Mbit/s
95th percentile per-packet one-way delay: 76.452 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 329.35 Mbit/s
95th percentile per-packet one-way delay: 76.452 ms
Loss rate: 0.48%
Run 6: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

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

Flow 1 ingress (mean 329.80 Mbps)  Flow 1 egress (mean 329.35 Mbps)

Flow 1 (95th percentile 76.45 ms)
Run 7: Statistics of PCC-Allegro

End at: 2018-06-07 13:40:20
Local clock offset: -0.07 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-07 15:36:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.02 Mbit/s
95th percentile per-packet one-way delay: 71.933 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 335.02 Mbit/s
95th percentile per-packet one-way delay: 71.933 ms
Loss rate: 0.39%
Run 7: Report of PCC-Allegro — Data Link
Run 8: Statistics of PCC-Allegro

End at: 2018-06-07 14:00:26
Local clock offset: -0.091 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-07 15:37:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.84 Mbit/s
95th percentile per-packet one-way delay: 82.610 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 342.84 Mbit/s
95th percentile per-packet one-way delay: 82.610 ms
Loss rate: 0.40%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 14:20:04
End at: 2018-06-07 14:20:34
Local clock offset: -0.123 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-07 15:39:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.12 Mbit/s
95th percentile per-packet one-way delay: 64.600 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 320.12 Mbit/s
95th percentile per-packet one-way delay: 64.600 ms
Loss rate: 0.38%
Run 9: Report of PCC-Allegro — Data Link

![Graph of Throughput](image1)

![Graph of Packet Delay](image2)

---

141
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 14:40:07
End at: 2018-06-07 14:40:37
Local clock offset: 0.623 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 15:40:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.91 Mbit/s
95th percentile per-packet one-way delay: 86.781 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 356.91 Mbit/s
95th percentile per-packet one-way delay: 86.781 ms
Loss rate: 0.36%
Run 10: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 356.97 Mbit/s)
- Flow 1 egress (mean 356.91 Mbit/s)

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

- Flow 1 (95th percentile 86.78 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 11:41:15
End at: 2018-06-07 11:41:45
Local clock offset: -0.013 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2018-06-07 15:43:42
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 283.66 Mbit/s
  95th percentile per-packet one-way delay: 53.210 ms
  Loss rate: 0.36%
-- Flow 1:
  Average throughput: 283.66 Mbit/s
  95th percentile per-packet one-way delay: 53.210 ms
  Loss rate: 0.36%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 12:01:32
End at: 2018-06-07 12:02:02
Local clock offset: -0.368 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 15:43:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.16 Mbit/s
95th percentile per-packet one-way delay: 50.290 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 237.16 Mbit/s
95th percentile per-packet one-way delay: 50.290 ms
Loss rate: 0.35%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

End at: 2018-06-07 12:22:06
Local clock offset: 0.033 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-07 15:44:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.89 Mbit/s
95th percentile per-packet one-way delay: 56.117 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 289.89 Mbit/s
95th percentile per-packet one-way delay: 56.117 ms
Loss rate: 0.36%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 12:41:45
End at: 2018-06-07 12:42:15
Local clock offset: 0.009 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-06-07 15:44:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.78 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 215.78 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.37%
Run 4: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 215.87 Mbit/s)**
- **Flow 1 egress (mean 215.78 Mbit/s)**
Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 13:01:54
End at: 2018-06-07 13:02:24
Local clock offset: -0.007 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-07 15:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.31 Mbit/s
95th percentile per-packet one-way delay: 51.475 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 275.31 Mbit/s
95th percentile per-packet one-way delay: 51.475 ms
Loss rate: 0.37%
Run 5: Report of PCC-Expr — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 275.41 Mbit/s)
- Flow 1 egress (mean 275.31 Mbit/s)

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

- Flow 1 (95th percentile 51.48 ms)
Run 6: Statistics of PCC-Expr

Local clock offset: -0.372 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-07 15:45:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.67 Mbit/s
95th percentile per-packet one-way delay: 49.985 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 233.67 Mbit/s
95th percentile per-packet one-way delay: 49.985 ms
Loss rate: 0.39%
Run 6: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress** (mean 233.80 Mbit/s)
- **Flow 1 egress** (mean 233.67 Mbit/s)

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

- **Flow 1 (95th percentile 49.98 ms)**
Run 7: Statistics of PCC-Expr

Local clock offset: -0.059 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-06-07 15:46:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.54 Mbit/s
95th percentile per-packet one-way delay: 51.009 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 213.54 Mbit/s
95th percentile per-packet one-way delay: 51.009 ms
Loss rate: 0.40%
Run 7: Report of PCC-Expr — Data Link

![Graph 1: Throughput](image)

- **Flow 1 ingress** (mean 213.68 Mbit/s)
- **Flow 1 egress** (mean 213.54 Mbit/s)

![Graph 2: Packet Delay](image)

Flow 1 (95th percentile 51.01 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 14:02:20
End at: 2018-06-07 14:02:50
Local clock offset: -0.478 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-07 15:48:54
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 234.48 Mbit/s
  95th percentile per-packet one-way delay: 50.603 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 234.48 Mbit/s
  95th percentile per-packet one-way delay: 50.603 ms
  Loss rate: 0.38%
Run 8: Report of PCC-Expr — Data Link
Run 9: Statistics of PCC-Expr

End at: 2018-06-07 14:22:56
Local clock offset: -0.23 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 15:49:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.50 Mbit/s
95th percentile per-packet one-way delay: 51.765 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 242.50 Mbit/s
95th percentile per-packet one-way delay: 51.765 ms
Loss rate: 0.35%
Run 9: Report of PCC-Expr — Data Link

\[\text{Throughput (Mbps)}\]

\[\text{Time (s)}\]

\[\text{Flow 1 ingress (mean 242.52 Mbps)}\]  \[\text{Flow 1 egress (mean 242.50 Mbps)}\]

\[\text{Per packet one-way delay (ms)}\]

\[\text{Flow 1 (95th percentile 51.77 ms)}\]
Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 14:42:31
End at: 2018-06-07 14:43:01
Local clock offset: 0.086 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 249.25 Mbit/s
  95th percentile per-packet one-way delay: 50.949 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 249.25 Mbit/s
  95th percentile per-packet one-way delay: 50.949 ms
  Loss rate: 0.37%
Run 10: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 249.32 Mbps)
- Flow 1 egress (mean 249.23 Mbps)

![Graph 2: Delay (ms)](image2)

- Flow 1 (95th percentile 50.95 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 11:47:06
End at: 2018-06-07 11:47:37
Local clock offset: -0.422 ms
Remote clock offset: 0.105 ms
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 12:06:58
End at: 2018-06-07 12:07:29
Local clock offset: 0.001 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 50.229 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 50.229 ms
Loss rate: 0.41%
Run 2: Report of QUIC Cubic — Data Link

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

![Graph 2: Packet delivery ratio](image2)

Legend:
- Flow 1 ingress (mean 76.61 Mbit/s)
- Flow 1 egress (mean 76.56 Mbit/s)
- Flow 1 (95th percentile 50.23 ms)
Run 3: Statistics of QUIC Cubic

Local clock offset: 0.382 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 50.606 ms
Loss rate: 0.44%

-- Flow 1:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 50.606 ms
Loss rate: 0.44%
Run 3: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 64.53 Mbit/s)**
- **Flow 1 egress (mean 64.47 Mbit/s)**
Run 4: Statistics of QUIC Cubic

End at: 2018-06-07 12:47:52  
Local clock offset: 0.368 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 15:50:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.49 Mbit/s  
95th percentile per-packet one-way delay: 51.023 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 69.49 Mbit/s  
95th percentile per-packet one-way delay: 51.023 ms  
Loss rate: 0.44%
Run 4: Report of QUIC Cubic — Data Link

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

Flow 1 ingress (mean 69.56 Mbit/s)  Flow 1 egress (mean 69.49 Mbit/s)

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

Flow 1 (95th percentile 51.02 ms)
Run 5: Statistics of QUIC Cubic

End at: 2018-06-07 13:08:11
Local clock offset: 0.076 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.08 Mbit/s
95th percentile per-packet one-way delay: 50.664 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 76.08 Mbit/s
95th percentile per-packet one-way delay: 50.664 ms
Loss rate: 0.39%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Local clock offset: 0.383 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 72.14 Mbit/s
  95th percentile per-packet one-way delay: 51.088 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 72.14 Mbit/s
  95th percentile per-packet one-way delay: 51.088 ms
  Loss rate: 0.41%
Run 6: Report of QUIC Cubic — Data Link

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

Flow 1 ingress (mean 72.19 Mbit/s)  Flow 1 egress (mean 72.14 Mbit/s)

Flow 1 (95th percentile 51.09 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 13:47:54
Local clock offset: -0.031 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.37%
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 14:08:02
End at: 2018-06-07 14:08:32
Local clock offset: -0.076 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.04 Mbit/s
95th percentile per-packet one-way delay: 49.826 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 53.04 Mbit/s
95th percentile per-packet one-way delay: 49.826 ms
Loss rate: 0.51%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 14:28:11
End at: 2018-06-07 14:28:41
Local clock offset: -0.438 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 50.199 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 50.199 ms
Loss rate: 0.46%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 14:48:06
End at: 2018-06-07 14:48:36
Local clock offset: -0.379 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 52.460 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 52.460 ms
Loss rate: 0.45%
Run 10: Report of QUIC Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 63.40 Mbit/s)  Flow 1 egress (mean 63.32 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 52.46 ms)
Run 1: Statistics of SCReAM

Start at: 2018-06-07 11:35:06
End at: 2018-06-07 11:35:36
Local clock offset: -0.039 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.350 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.350 ms
Loss rate: 0.25%
Run 1: Report of SCReAM — Data Link

![Graph showing network performance metrics such as throughput and packet delay over time.]

1. Throughput (Mbps)

2. Time (s)

3. Flow 1 ingress (mean 0.22 Mbps) — Flow 1 egress (mean 0.22 Mbps)

4. Per packet one way delay (ms)

5. Time (s)

6. Flow 1 (95th percentile 50.35 ms)
Run 2: Statistics of SCReAM

Local clock offset: 0.003 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.279 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.279 ms
Loss rate: 0.26%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

End at: 2018-06-07 12:15:58
Local clock offset: -0.348 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.684 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.684 ms
Loss rate: 0.26%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-06-07 12:35:41
End at: 2018-06-07 12:36:11
Local clock offset: -0.019 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.250 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.250 ms
Loss rate: 0.26%
Run 4: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 50.25 ms)
Run 5: Statistics of SCReAM

End at: 2018-06-07 12:56:16
Local clock offset: 0.007 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.706 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.706 ms
Loss rate: 0.26%
Run 5: Report of SCReAM — Data Link

![Graph 1: Throughput vs Time]

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

![Graph 2: Packet Delay vs Time]

- Flow 1 (95th percentile 49.31 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-07 13:16:05
End at: 2018-06-07 13:16:35
Local clock offset: 0.059 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.38%
Run 6: Report of SCReAM — Data Link

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

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

- **Flow 1 ingress (mean 0.22 Mb/s)**
- **Flow 1 egress (mean 0.22 Mb/s)**
Run 7: Statistics of SCReAM

End at: 2018-06-07 13:36:43
Local clock offset: -0.033 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.26%
Run 7: Report of SCReAM — Data Link

![Graph of throughput over time](image1)

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

![Graph of per-packet one-way delay over time](image2)

- **Flow 1 (95th percentile 50.45 ms)**
Run 8: Statistics of SCReAM

Start at: 2018-06-07 13:56:16
End at: 2018-06-07 13:56:46
Local clock offset: -0.04 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.740 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.740 ms
Loss rate: 0.26%
Run 8: Report of SCReAM — Data Link

![Graph 1: Throughput over Time](Image)
- Flow 1 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.22 Mbit/s)

![Graph 2: Packet delivery over Time](Image)
- Flow 1 (95th percentile 49.74 ms)
Run 9: Statistics of SCReAM

Start at: 2018-06-07 14:16:26
End at: 2018-06-07 14:16:56
Local clock offset: ~0.318 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.539 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.539 ms
Loss rate: 0.39%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-06-07 14:36:29  
End at: 2018-06-07 14:36:59  
Local clock offset: 0.024 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-07 15:50:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.472 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.472 ms  
Loss rate: 0.26%
Run 10: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 50.47 ms)
Run 1: Statistics of Sprout

Start at: 2018-06-07 11:40:09
End at: 2018-06-07 11:40:39
Local clock offset: -0.02 ms
Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 49.775 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 49.775 ms
Loss rate: 0.36%
Run 2: Statistics of Sprout

Start at: 2018-06-07 12:00:26
End at: 2018-06-07 12:00:56
Local clock offset: 0.023 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 50.869 ms
Loss rate: 0.43%
Run 2: Report of Sprout — Data Link

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

**Graph 1:**
- **Throughput (Mbps):** The graph plots throughput against time (s) with two distinct lines representing different flows.
- **Legend:**
  - Dashed line: Flow 1 ingress (mean 6.10 Mbit/s)
  - Solid line: Flow 1 egress (mean 6.10 Mbit/s)

**Graph 2:**
- **Per-packet one-way delay (ms):** The graph plots per-packet delay against time (s) with a distinct line representing Flow 1.
- **Legend:**
  - Dotted line: Flow 1 (90th percentile 50.87 ms)
Run 3: Statistics of Sprout

Start at: 2018-06-07 12:20:30
End at: 2018-06-07 12:21:00
Local clock offset: 0.02 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.54%
Run 3: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 6.05 Mbit/s)
- Flow 1 egress (mean 6.05 Mbit/s)

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

- Flow 1 (95th percentile 50.95 ms)
Run 4: Statistics of Sprout

Start at: 2018-06-07 12:40:39
End at: 2018-06-07 12:41:09
Local clock offset: -0.381 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 51.145 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 51.145 ms
Loss rate: 0.37%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-06-07 13:00:48
End at: 2018-06-07 13:01:18
Local clock offset: 0.396 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 52.056 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 52.056 ms
Loss rate: 0.19%
Run 5: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 5.95 Mbit/s)
- Flow 1 egress (mean 5.95 Mbit/s)

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

- Flow 1 95th percentile 52.06 ms
Run 6: Statistics of Sprout

Local clock offset: 0.054 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 50.633 ms
Loss rate: 0.25%
Run 6: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 7.40 Mbps)
- Flow 1 egress (mean 7.41 Mbps)

![Graph 2: RTT (ms)](image2)

- Flow 1 (95th percentile 50.63 ms)
Run 7: Statistics of Sprout

End at: 2018-06-07 13:41:37
Local clock offset: -0.074 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 50.232 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 50.232 ms
Loss rate: 0.42%
Run 7: Report of Sprout — Data Link

![Graph 1](#)

- **Flow 1 ingress (mean 7.21 Mbit/s)**
- **Flow 1 egress (mean 7.21 Mbit/s)**

![Graph 2](#)

- **Flow 1 (95th percentile 50.23 ms)**
Run 8: Statistics of Sprout

Start at: 2018-06-07 14:01:14
End at: 2018-06-07 14:01:44
Local clock offset: -0.456 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 51.201 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 51.201 ms
Loss rate: 0.39%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

End at: 2018-06-07 14:21:50
Local clock offset: -0.173 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 51.231 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 51.231 ms
Loss rate: 0.50%
Run 9: Report of Sprout — Data Link

![Graph of data link throughput and delay over time]

- Flow 1 ingress (mean 6.70 Mbit/s)
- Flow 1 egress (mean 6.68 Mbit/s)

![Graph of packet drop rate delay over time]

- Flow 1 95th percentile 51.23 ms
Run 10: Statistics of Sprout

Start at: 2018-06-07 14:41:25
End at: 2018-06-07 14:41:55
Local clock offset: 0.69 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-07 15:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 51.147 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 51.147 ms
Loss rate: 0.41%
Run 10: Report of Sprout — Data Link

[Graphs showing network performance metrics such as throughput and packet delay over time.]

Flow 1 ingress (mean 5.94 Mbit/s)  Flow 1 egress (mean 5.93 Mbit/s)

Flow 1 95th percentile 51.15 ms
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 11:37:24
End at: 2018-06-07 11:37:54
Local clock offset: 0.343 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2018-06-07 15:54:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.42 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 222.42 Mbit/s
95th percentile per-packet one-way delay: 50.780 ms
Loss rate: 0.37%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 11:57:42
End at: 2018-06-07 11:58:12
Local clock offset: 0.01 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-07 15:55:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.62 Mbit/s
95th percentile per-packet one-way delay: 50.112 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 250.62 Mbit/s
95th percentile per-packet one-way delay: 50.112 ms
Loss rate: 0.33%
Run 2: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 250.59 Mbit/s)  Flow 1 egress (mean 250.62 Mbit/s)

Packet loss rate (per second)

Time (s)

Flow 1 (95th percentile 50.11 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 12:17:46
End at: 2018-06-07 12:18:16
Local clock offset: 0.013 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-07 15:55:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.78 Mbit/s
95th percentile per-packet one-way delay: 50.745 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 246.78 Mbit/s
95th percentile per-packet one-way delay: 50.745 ms
Loss rate: 0.35%
Run 3: Report of TaoVA-100x — Data Link

![Data Link Graph]

Flow 1 ingress (mean 246.81 Mbit/s)  
Flow 1 egress (mean 246.78 Mbit/s)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 12:38:00
End at: 2018-06-07 12:38:30
Local clock offset: 0.002 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-07 15:55:16
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 204.40 Mbit/s
  95th percentile per-packet one-way delay: 50.840 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 204.40 Mbit/s
  95th percentile per-packet one-way delay: 50.840 ms
  Loss rate: 0.43%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 12:58:06
End at: 2018-06-07 12:58:36
Local clock offset: 0.019 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 15:55:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.96 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 229.96 Mbit/s
95th percentile per-packet one-way delay: 50.943 ms
Loss rate: 0.37%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

End at: 2018-06-07 13:18:56
Local clock offset: 0.05 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-07 15:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.32 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 239.32 Mbit/s
95th percentile per-packet one-way delay: 50.978 ms
Loss rate: 0.37%
Run 6: Report of TaoVA-100x — Data Link

Diagram 1: Throughput (Mbps) vs Time (s)

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

Flow 1 ingress (mean 239.40 Mbit/s) — Flow 1 egress (mean 239.32 Mbit/s)

Flow 1 (95th percentile 50.98 ms)
Run 7: Statistics of TaoVA-100x

End at: 2018-06-07 13:39:03
Local clock offset: -0.42 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-07 15:55:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.53 Mbit/s
95th percentile per-packet one-way delay: 50.437 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 144.53 Mbit/s
95th percentile per-packet one-way delay: 50.437 ms
Loss rate: 0.28%
Run 7: Report of TaoVA-100x — Data Link

![Graph showing network traffic and delay over time for Flow 1](image1)

- Flow 1 ingress (mean 144.42 Mbit/s)
- Flow 1 egress (mean 144.53 Mbit/s)

![Graph showing packet loss and delay over time for Flow 1](image2)

- Flow 1 (95th percentile 50.44 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 13:58:34
End at: 2018-06-07 13:59:04
Local clock offset: -0.067 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-07 15:57:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.26 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 203.26 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.43%
Run 8: Report of TaoVA-100x — Data Link

![Graph](image)

**Throughput (Mbps):**
- Flow 1 ingress (mean 203.46 Mbps)
- Flow 1 egress (mean 203.26 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 50.95 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 14:18:44  
End at: 2018-06-07 14:19:14  
Local clock offset: 0.025 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-07 15:59:08  
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.52 Mbit/s  
95th percentile per-packet one-way delay: 51.107 ms  
Loss rate: 0.51%
-- Flow 1:
Average throughput: 159.52 Mbit/s  
95th percentile per-packet one-way delay: 51.107 ms  
Loss rate: 0.51%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 14:38:46
End at: 2018-06-07 14:39:16
Local clock offset: -0.771 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.69 Mbit/s
95th percentile per-packet one-way delay: 50.158 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 179.69 Mbit/s
95th percentile per-packet one-way delay: 50.158 ms
Loss rate: 0.41%
Run 10: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 179.83 Mbit/s)  Flow 1 egress (mean 179.69 Mbit/s)

Packet one way delay (ms)

Flow 1 (95th percentile 50.16 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 11:33:58
End at: 2018-06-07 11:34:28
Local clock offset: 0.38 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 63.29 Mbit/s
  95th percentile per-packet one-way delay: 51.535 ms
  Loss rate: 0.36%
-- Flow 1:
  Average throughput: 63.29 Mbit/s
  95th percentile per-packet one-way delay: 51.535 ms
  Loss rate: 0.36%
Run 1: Report of TCP Vegas — Data Link

![Graph of throughput and time](image1)

**Throughput (Mbit/s)**

- Flow 1 ingress (mean 63.31 Mbit/s)
- Flow 1 egress (mean 63.29 Mbit/s)

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

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

- Flow 1 (99th percentile 51.33 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 11:54:11
End at: 2018-06-07 11:54:41
Local clock offset: 0.008 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 185.52 Mbit/s
  95th percentile per-packet one-way delay: 51.271 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 185.52 Mbit/s
  95th percentile per-packet one-way delay: 51.271 ms
  Loss rate: 0.33%
Run 2: Report of TCP Vegas — Data Link

Throughput (Mbps) vs Time (s)

Flow 1 ingress (mean 185.50 Mbit/s)  Flow 1 egress (mean 185.52 Mbit/s)

Packet delay (ms) vs Time (s)

Flow 1 (99th percentile 51.27 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 12:14:12
End at: 2018-06-07 12:14:42
Local clock offset: 0.418 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.08 Mbit/s
95th percentile per-packet one-way delay: 60.911 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 219.08 Mbit/s
95th percentile per-packet one-way delay: 60.911 ms
Loss rate: 0.14%
Run 3: Report of TCP Vegas — Data Link

![Graph 1: Time vs. Throughput (Mbps)](image1)
- Flow 1 ingress (mean 218.66 Mbit/s)
- Flow 1 egress (mean 219.08 Mbit/s)

![Graph 2: Time vs. RTT (ms)](image2)
- Flow 1 (95th percentile 60.91 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 12:34:33
End at: 2018-06-07 12:35:03
Local clock offset: 0.027 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.53 Mbit/s
95th percentile per-packet one-way delay: 51.390 ms
Loss rate: 0.26%

-- Flow 1:
Average throughput: 66.53 Mbit/s
95th percentile per-packet one-way delay: 51.390 ms
Loss rate: 0.26%
Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 12:54:32
End at: 2018-06-07 12:55:02
Local clock offset: 0.008 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.57 Mbit/s
95th percentile per-packet one-way delay: 52.006 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 191.57 Mbit/s
95th percentile per-packet one-way delay: 52.006 ms
Loss rate: 0.37%
Run 5: Report of TCP Vegas — Data Link

![Graph of TCP Vegas data link performance with throughput and packet delay over time.]

- **Flow 1 ingress (mean 191.64 Mbit/s)**
- **Flow 1 egress (mean 191.57 Mbit/s)**

- **Flow 1 (95th percentile 52.01 ms)**
Run 6: Statistics of TCP Vegas

Local clock offset: 0.041 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.22 Mbit/s
95th percentile per-packet one-way delay: 59.867 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 135.22 Mbit/s
95th percentile per-packet one-way delay: 59.867 ms
Loss rate: 0.30%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 13:35:04
End at: 2018-06-07 13:35:34
Local clock offset: 0.025 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.37%
Run 7: Report of TCP Vegas — Data Link
Run 8: Statistics of TCP Vegas

Local clock offset: -0.088 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-06-07 16:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 51.395 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 51.395 ms
Loss rate: 0.40%
Run 8: Report of TCP Vegas — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image2)
Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 14:15:12
End at: 2018-06-07 14:15:42
Local clock offset: -0.464 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 16:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.88 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 180.88 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 0.18%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 14:35:22
End at: 2018-06-07 14:35:52
Local clock offset: -0.149 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-07 16:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 50.839 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 50.839 ms
Loss rate: 0.23%
Run 10: Report of TCP Vegas — Data Link

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

Flow 1 ingress (mean 38.87 Mbit/s) | Flow 1 egress (mean 38.91 Mbit/s)

Flow 1 (95th percentile 50.84 ms)
Run 1: Statistics of Verus

Start at: 2018-06-07 11:45:47
End at: 2018-06-07 11:46:17
Local clock offset: -0.021 ms
Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-06-07 16:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.02 Mbit/s
95th percentile per-packet one-way delay: 139.456 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 225.02 Mbit/s
95th percentile per-packet one-way delay: 139.456 ms
Loss rate: 0.38%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-06-07 12:05:36
End at: 2018-06-07 12:06:06
Local clock offset: 0.021 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-07 16:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.24 Mbit/s
95th percentile per-packet one-way delay: 101.533 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 272.24 Mbit/s
95th percentile per-packet one-way delay: 101.533 ms
Loss rate: 0.24%
Run 2: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 272.57 Mbit/s)**
- **Flow 1 egress (mean 272.24 Mbit/s)**

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

- **Flow 1 (95th percentile 101.53 ms)**
Run 3: Statistics of Verus

Start at: 2018-06-07 12:26:04
End at: 2018-06-07 12:26:34
Local clock offset: -0.013 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 16:03:13
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 256.26 Mbit/s
  95th percentile per-packet one-way delay: 88.018 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 256.26 Mbit/s
  95th percentile per-packet one-way delay: 88.018 ms
  Loss rate: 0.46%
Run 3: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 256.72 Mbps)
  - Flow 1 egress (mean 256.26 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 88.02 ms)
Run 4: Statistics of Verus

Start at: 2018-06-07 12:46:02
End at: 2018-06-07 12:46:32
Local clock offset: -0.017 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-07 16:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.37 Mbit/s
95th percentile per-packet one-way delay: 154.832 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 239.37 Mbit/s
95th percentile per-packet one-way delay: 154.832 ms
Loss rate: 0.39%
Run 4: Report of Verus — Data Link

**Graph 1:**
- Title: Throughput (Mbps)
- X-axis: Time (s)
- Y-axis: Throughput (Mbps)
- Legend: Flow 1 ingress (mean 240.25 Mbit/s) and Flow 1 egress (mean 239.37 Mbit/s)

**Graph 2:**
- Title: Per packet delay (ms)
- X-axis: Time (s)
- Y-axis: Per packet delay (ms)
- Legend: Flow 1 (95th percentile 154.83 ms)
Run 5: Statistics of Verus

Start at: 2018-06-07 13:06:22
End at: 2018-06-07 13:06:53
Local clock offset: 0.038 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-07 16:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.63 Mbit/s
95th percentile per-packet one-way delay: 87.039 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 219.63 Mbit/s
95th percentile per-packet one-way delay: 87.039 ms
Loss rate: 0.64%
Run 5: Report of Verus — Data Link

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

*Flow 1 ingress (mean 220.30 Mbit/s)*
*Flow 1 egress (mean 219.63 Mbit/s)*

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

*Flow 1 (95th percentile 87.04 ms)*
Run 6: Statistics of Verus

Start at: 2018-06-07 13:26:37
Local clock offset: -0.023 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-07 16:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.42 Mbit/s
95th percentile per-packet one-way delay: 104.981 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 208.42 Mbit/s
95th percentile per-packet one-way delay: 104.981 ms
Loss rate: 0.68%
Run 6: Report of Verus — Data Link

![Graphs showing throughput and packet delay over time](chart.png)
Run 7: Statistics of Verus

End at: 2018-06-07 13:47:05
Local clock offset: -0.51 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-06-07 16:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.69 Mbit/s
95th percentile per-packet one-way delay: 88.348 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 216.69 Mbit/s
95th percentile per-packet one-way delay: 88.348 ms
Loss rate: 0.52%
Run 7: Report of Verus — Data Link

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

- **Throughput (Mbps)**: The graph shows the throughput in Mbps over time for both ingress and egress flows. The throughput for Flow 1 ingress is indicated by a dashed blue line, and the egress by a solid blue line. The mean throughput for the ingress is 217.69 Mbps, and for the egress is 216.69 Mbps.

- **Packet Delay (ms)**: The graph below shows the packet delay in milliseconds for Flow 1. The 95th percentile delay is 88.35 ms.

---

277
Run 8: Statistics of Verus

Start at: 2018-06-07 14:06:41
End at: 2018-06-07 14:07:11
Local clock offset: -0.052 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-07 16:05:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 251.97 Mbit/s
  95th percentile per-packet one-way delay: 158.213 ms
  Loss rate: 0.80%
-- Flow 1:
  Average throughput: 251.97 Mbit/s
  95th percentile per-packet one-way delay: 158.213 ms
  Loss rate: 0.80%
Run 8: Report of Verus — Data Link

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

Flow 1 ingress (mean 253.51 Mbit/s) and Flow 1 egress (mean 251.97 Mbit/s)

Flow 1 (95th percentile 158.21 ms)
Run 9: Statistics of Verus

Start at: 2018-06-07 14:26:50
End at: 2018-06-07 14:27:20
Local clock offset: -0.102 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-07 16:05:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.21 Mbit/s
95th percentile per-packet one-way delay: 102.505 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 246.21 Mbit/s
95th percentile per-packet one-way delay: 102.505 ms
Loss rate: 0.50%
Run 9: Report of Verus — Data Link

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

- Flow 1 ingress (mean 247.07 Mbit/s)
- Flow 1 egress (mean 246.21 Mbit/s)

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

- Flow 1 (95th percentile 102.50 ms)
Run 10: Statistics of Verus

Start at: 2018-06-07 14:46:46
End at: 2018-06-07 14:47:16
Local clock offset: -0.197 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-07 16:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 164.715 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 164.715 ms
Loss rate: 0.42%
Run 10: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 237.46 Mbps)
- Flow 1 egress (mean 237.26 Mbps)

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

- Flow 1 (95th percentile 164.72 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 11:42:45
End at: 2018-06-07 11:43:16
Local clock offset: -0.048 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2018-06-07 16:08:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.29 Mbit/s
95th percentile per-packet one-way delay: 50.598 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 359.29 Mbit/s
95th percentile per-packet one-way delay: 50.598 ms
Loss rate: 0.26%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 12:02:57
End at: 2018-06-07 12:03:27
Local clock offset: 0.392 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-07 16:08:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.40 Mbit/s
95th percentile per-packet one-way delay: 72.030 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 309.40 Mbit/s
95th percentile per-packet one-way delay: 72.030 ms
Loss rate: 0.44%
Run 2: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 309.73 Mbit/s)
- Flow 1 egress (mean 309.40 Mbit/s)

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

- Flow 1 (95th percentile 72.03 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 12:23:05
Local clock offset: -0.006 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-07 16:08:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 347.59 Mbit/s
  95th percentile per-packet one-way delay: 51.250 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 347.59 Mbit/s
  95th percentile per-packet one-way delay: 51.250 ms
  Loss rate: 0.33%
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 12:43:09
End at: 2018-06-07 12:43:39
Local clock offset: -0.006 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 16:09:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.35 Mbit/s
95th percentile per-packet one-way delay: 51.580 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 359.35 Mbit/s
95th percentile per-packet one-way delay: 51.580 ms
Loss rate: 0.40%
Run 4: Report of PCC-Vivace — Data Link

![Graph of throughput and delay](image-url)
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 13:03:21
End at: 2018-06-07 13:03:51
Local clock offset: 0.015 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 16:10:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 368.14 Mbit/s
95th percentile per-packet one-way delay: 51.743 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 368.14 Mbit/s
95th percentile per-packet one-way delay: 51.743 ms
Loss rate: 0.39%
Run 5: Report of PCC-Vivace — Data Link

![Graph of throughput and packet delay over time]

- **Flow 1 ingress** (mean 368.34 Mbit/s)
- **Flow 1 egress** (mean 368.14 Mbit/s)

![Graph of packet delay distribution over time]

- **Flow 1 (95th percentile 51.74 ms)**
Run 6: Statistics of PCC-Vivace

End at: 2018-06-07 13:24:10
Local clock offset: 0.007 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 16:10:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.18 Mbit/s
95th percentile per-packet one-way delay: 50.558 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 338.18 Mbit/s
95th percentile per-packet one-way delay: 50.558 ms
Loss rate: 0.47%
Run 6: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 338.63 Mbit/s)**
- **Flow 1 egress (mean 338.18 Mbit/s)**

![Graph 2: Per-packet End-to-End Delay vs Time](image2)

- **Flow 1 (95th percentile 50.56 ms)**
Run 7: Statistics of PCC-Vivace

End at: 2018-06-07 13:44:07
Local clock offset: -0.06 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 16:11:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.35 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 357.35 Mbit/s
95th percentile per-packet one-way delay: 50.599 ms
Loss rate: 0.41%
Run 7: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 357.60 Mbit/s)
- Flow 1 egress (mean 357.35 Mbit/s)

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

- Flow 1 (95th percentile 50.60 ms)
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 14:03:45
End at: 2018-06-07 14:04:15
Local clock offset: -0.101 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-07 16:11:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.72 Mbit/s
95th percentile per-packet one-way delay: 51.114 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 285.72 Mbit/s
95th percentile per-packet one-way delay: 51.114 ms
Loss rate: 0.41%
Run 8: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 285.93 Mbit/s)
- Flow 1 egress (mean 285.72 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 51.11 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 14:23:52
End at: 2018-06-07 14:24:22
Local clock offset: -0.755 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-07 16:11:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.07 Mbit/s
95th percentile per-packet one-way delay: 50.247 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 312.07 Mbit/s
95th percentile per-packet one-way delay: 50.247 ms
Loss rate: 0.37%
Run 9: Report of PCC-Vivace — Data Link
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 14:43:57
End at: 2018-06-07 14:44:27
Local clock offset: 0.029 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 50.312 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 50.312 ms
Loss rate: 0.42%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 11:29:25
End at: 2018-06-07 11:29:55
Local clock offset: -0.035 ms
Remote clock offset: 0.195 ms
Run 1: Report of WebRTC media — Data Link

![Graph 1: Throughput vs Time](chart1.png)

- Flow 1 ingress (mean 0.07 Mbit/s)
- Flow 1 egress (mean 0.07 Mbit/s)

![Graph 2: Packet Loss vs Time](chart2.png)

- Flow 1 (95th percentile 50.24 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-06-07 11:49:27
End at: 2018-06-07 11:49:57
Local clock offset: -0.038 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.344 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.344 ms
Loss rate: 0.44%
Run 2: Report of WebRTC media — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 1.96 Mbit/s)
- Flow 1 egress (mean 1.95 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 50.34 ms)
Run 3: Statistics of WebRTC media

Start at: 2018-06-07 12:09:23
End at: 2018-06-07 12:09:53
Local clock offset: 0.017 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.42%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-06-07 12:29:50
End at: 2018-06-07 12:30:20
Local clock offset: 0.352 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.37%
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time with indications of flow ingress (dashed line) and egress (solid line).]

![Graph showing packet delay over time with indication of 95th percentile delay.]
Run 5: Statistics of WebRTC media

Start at: 2018-06-07 12:49:46
End at: 2018-06-07 12:50:16
Local clock offset: -0.392 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 50.035 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 50.035 ms
Loss rate: 0.43%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

Start at: 2018-06-07 13:10:06
End at: 2018-06-07 13:10:36
Local clock offset: 0.018 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 51.055 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 51.055 ms
Loss rate: 0.36%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-06-07 13:30:20
End at: 2018-06-07 13:30:50
Local clock offset: -0.382 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 0.37%
Run 7: Report of WebRTC media — Data Link

![Throughput Graph]

![Packet Delay Graph]
Run 8: Statistics of WebRTC media

Start at: 2018-06-07 13:50:19
End at: 2018-06-07 13:50:49
Local clock offset: -0.078 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 50.661 ms
Loss rate: 0.37%
Run 8: Report of WebRTC media — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 1.90 Mbit/s)  Flow 1 egress (mean 1.90 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.66 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-07 14:10:25
End at: 2018-06-07 14:10:55
Local clock offset: 0.373 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 50.452 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 50.452 ms
Loss rate: 0.41%
Run 9: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingress and egress. The throughput varies significantly with peaks and troughs, while the packet delay remains relatively consistent with a 95th percentile of 50.45 ms.](image)

321
Run 10: Statistics of WebRTC media

Start at: 2018-06-07 14:30:36
End at: 2018-06-07 14:31:06
Local clock offset: -0.185 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-07 16:11:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 49.632 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 49.632 ms
Loss rate: 0.32%
Run 10: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 1.99 Mbit/s)**
- **Flow 1 egress (mean 1.99 Mbit/s)**

![Graph 2: Per-packet end-to-end delay (ms)](image2)

- **Flow 1 (95th percentile 49.63 ms)**