Generated at 2018-07-27 08:05:26 (UTC).
Data path: GCE Tokyo Ethernet (remote) → GCE Sydney Ethernet (local).
Repeated the test of 17 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 @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436db4d8834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901111ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc44de0ecdbf90c077e64d
third_party/libutp @ b3465b942e28262f2b17eeaaab4a906ce6bb7cfc3cf
third_party/pantheon-tunnel @ 6f038ed31259d36ff9840f65b82cbe8f464b1b39
third_party/pcc @ 1afcf958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08f92f4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc97ff3cfe42
third_party/scream-reproduce @ f099118d1421a3131bf11ff1964974e1da3b5b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
M tools/plot.py
third_party/vivace @ 2ba0f82611435ae071a32f967d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9de4735770d143a1fa2851
test from GCE Tokyo to GCE Sydney, 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>
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<tr>
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<td>59.46</td>
<td>0.35</td>
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<td>Copa</td>
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<td>142.01</td>
<td>58.85</td>
<td>0.24</td>
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<td>TCP Cubic</td>
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<td>209.07</td>
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<tr>
<td>FillP</td>
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<td>733.61</td>
<td>112.77</td>
<td>0.64</td>
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<td>Indigo</td>
<td>10</td>
<td>230.16</td>
<td>53.95</td>
<td>0.34</td>
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<tr>
<td>LEDBAT</td>
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<td>54.51</td>
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<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>386.85</td>
<td>150.35</td>
<td>0.74</td>
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<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>232.95</td>
<td>151.48</td>
<td>3.37</td>
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<tr>
<td>QUIC Cubic</td>
<td>9</td>
<td>63.52</td>
<td>53.66</td>
<td>0.58</td>
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<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.21</td>
<td>53.58</td>
<td>0.37</td>
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<tr>
<td>Sprout</td>
<td>10</td>
<td>6.54</td>
<td>53.89</td>
<td>0.37</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>7</td>
<td>108.43</td>
<td>53.60</td>
<td>0.18</td>
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<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>146.89</td>
<td>58.73</td>
<td>0.32</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>263.28</td>
<td>113.82</td>
<td>1.00</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>345.82</td>
<td>71.53</td>
<td>0.48</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.93</td>
<td>52.75</td>
<td>0.40</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-07-27 02:18:41
End at: 2018-07-27 02:19:11
Local clock offset: -0.095 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.94 Mbit/s
95th percentile per-packet one-way delay: 61.796 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 221.94 Mbit/s
95th percentile per-packet one-way delay: 61.796 ms
Loss rate: 0.35%
Run 2: Statistics of TCP BBR

Start at: 2018-07-27 02:40:27
End at: 2018-07-27 02:40:57
Local clock offset: -0.318 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.91 Mbit/s
95th percentile per-packet one-way delay: 57.731 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 225.91 Mbit/s
95th percentile per-packet one-way delay: 57.731 ms
Loss rate: 0.36%
Run 2: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time for two flows. The top graph represents throughput in Mbps, and the bottom graph represents packet delay in milliseconds. The legend indicates that the blue line represents flow 1 ingress (mean 225.93 Mbps) and flow 1 egress (mean 225.91 Mbps) for throughput, and flow 1 (95th percentile 57.73 ms) for packet delay.](attachment://image.png)
Run 3: Statistics of TCP BBR

Start at: 2018-07-27 03:02:09
End at: 2018-07-27 03:02:39
Local clock offset: -0.133 ms
Remote clock offset: 1.119 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 212.93 Mbit/s
  95th percentile per-packet one-way delay: 60.156 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 212.93 Mbit/s
  95th percentile per-packet one-way delay: 60.156 ms
  Loss rate: 0.38%
Run 3: Report of TCP BBR — Data Link

[Graph showing throughput and delay over time]

Flow 1 ingress (mean 212.97 Mbit/s)  Flow 1 egress (mean 212.93 Mbit/s)

Flow 1 (95th percentile 60.18 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-07-27 03:23:38
End at: 2018-07-27 03:24:08
Local clock offset: −0.03 ms
Remote clock offset: −0.006 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.59 Mbit/s
95th percentile per-packet one-way delay: 60.645 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 209.59 Mbit/s
95th percentile per-packet one-way delay: 60.645 ms
Loss rate: 0.19%
Run 4: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time]

*Flow 1 ingress (mean 209.23 Mbit/s) — Flow 1 egress (mean 209.59 Mbit/s)*

*Flow 1 (95th percentile 60.65 ms)*
Run 5: Statistics of TCP BBR

Start at: 2018-07-27 03:45:24
End at: 2018-07-27 03:45:54
Local clock offset: 0.057 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.07 Mbit/s
95th percentile per-packet one-way delay: 62.180 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 216.07 Mbit/s
95th percentile per-packet one-way delay: 62.180 ms
Loss rate: 0.37%
Run 5: Report of TCP BBR — Data Link

![Graph of Throughput](chart1.png)

![Graph of Per-packet End-to-End Delay](chart2.png)
Run 6: Statistics of TCP BBR

Start at: 2018-07-27 04:06:48
End at: 2018-07-27 04:07:18
Local clock offset: 0.008 ms
Remote clock offset: 1.065 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.81 Mbit/s
95th percentile per-packet one-way delay: 53.052 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 216.81 Mbit/s
95th percentile per-packet one-way delay: 53.052 ms
Loss rate: 0.34%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 216.80 Mbit/s)
- Flow 1 egress (mean 216.81 Mbit/s)

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

- Flow 1 (95th percentile 53.05 ms)
Run 7: Statistics of TCP BBR

Local clock offset: -0.001 ms
Remote clock offset: -0.239 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.25 Mbit/s
95th percentile per-packet one-way delay: 60.943 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 220.25 Mbit/s
95th percentile per-packet one-way delay: 60.943 ms
Loss rate: 0.37%
Run 7: Report of TCP BBR — Data Link
Run 8: Statistics of TCP BBR

Start at: 2018-07-27 04:50:37
End at: 2018-07-27 04:51:07
Local clock offset: -0.017 ms
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-07-27 06:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.88 Mbit/s
95th percentile per-packet one-way delay: 61.792 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 218.88 Mbit/s
95th percentile per-packet one-way delay: 61.792 ms
Loss rate: 0.35%
Run 8: Report of TCP BBR — Data Link

[Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 218.90 Mbit/s)
- Flow 1 egress (mean 218.88 Mbit/s)

[Graph showing packet delay over time]

- Flow 1 (95th percentile 61.79 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-07-27 05:12:31
End at: 2018-07-27 05:13:01
Local clock offset: 0.256 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-07-27 06:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.02 Mbit/s
95th percentile per-packet one-way delay: 57.087 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 216.02 Mbit/s
95th percentile per-packet one-way delay: 57.087 ms
Loss rate: 0.36%
Run 9: Report of TCP BBR — Data Link

**Graph 1:**
- **Y-axis:** Throughput (Mbit/s)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 ingress (mean 216.02 Mbit/s)
  - Flow 1 egress (mean 216.02 Mbit/s)

**Graph 2:**
- **Y-axis:** Per packet one-way delay (ms)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 (95th percentile 57.09 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-07-27 05:34:23
End at: 2018-07-27 05:34:53
Local clock offset: -0.034 ms
Remote clock offset: 1.068 ms

# Below is generated by plot.py at 2018-07-27 06:11:06
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 208.51 Mbit/s
  95th percentile per-packet one-way delay: 59.169 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 208.51 Mbit/s
  95th percentile per-packet one-way delay: 59.169 ms
  Loss rate: 0.39%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2018-07-27 02:28:34
End at: 2018-07-27 02:29:04
Local clock offset: -0.203 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-07-27 06:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.99 Mbit/s
95th percentile per-packet one-way delay: 65.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.99 Mbit/s
95th percentile per-packet one-way delay: 65.383 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

![Graph showing throughput and delay over time for Flow 1.]
Run 2: Statistics of Copa

Start at: 2018-07-27 02:50:29
End at: 2018-07-27 02:50:59
Local clock offset: -0.087 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-07-27 06:11:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 53.675 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 49.41 Mbit/s
95th percentile per-packet one-way delay: 53.675 ms
Loss rate: 0.34%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-07-27 03:12:01
End at: 2018-07-27 03:12:31
Local clock offset: -0.036 ms
Remote clock offset: -1.131 ms

# Below is generated by plot.py at 2018-07-27 06:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.39 Mbit/s
95th percentile per-packet one-way delay: 59.567 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 164.39 Mbit/s
95th percentile per-packet one-way delay: 59.567 ms
Loss rate: 0.06%
Run 3: Report of Copa — Data Link

![Graph showing throughput and delay over time.]

- **Flow 1 ingress (mean 163.89 Mbit/s)**
- **Flow 1 egress (mean 164.39 Mbit/s)**
Run 4: Statistics of Copa

Start at: 2018-07-27 03:33:31
End at: 2018-07-27 03:34:01
Local clock offset: -0.14 ms
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-07-27 06:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.53 Mbit/s
95th percentile per-packet one-way delay: 58.228 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 137.53 Mbit/s
95th percentile per-packet one-way delay: 58.228 ms
Loss rate: 0.20%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

End at: 2018-07-27 03:55:50
Local clock offset: -0.019 ms
Remote clock offset: -1.396 ms

# Below is generated by plot.py at 2018-07-27 06:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 62.815 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 62.815 ms
Loss rate: 0.48%
Run 5: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 129.94 Mbps)**
- **Flow 1 egress (mean 129.77 Mbps)**

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

- **Flow 1 (95th percentile 62.81 ms)**
Run 6: Statistics of Copa

Start at: 2018-07-27 04:16:50
End at: 2018-07-27 04:17:20
Local clock offset: -0.02 ms
Remote clock offset: 1.284 ms

# Below is generated by plot.py at 2018-07-27 06:12:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 135.69 Mbit/s
  95th percentile per-packet one-way delay: 57.481 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 135.69 Mbit/s
  95th percentile per-packet one-way delay: 57.481 ms
  Loss rate: 0.43%
Run 6: Report of Copa — Data Link
Run 7: Statistics of Copa

Start at: 2018-07-27 04:38:27
End at: 2018-07-27 04:38:57
Local clock offset: 0.093 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-07-27 06:18:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.56 Mbit/s
95th percentile per-packet one-way delay: 59.809 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 240.56 Mbit/s
95th percentile per-packet one-way delay: 59.809 ms
Loss rate: 0.26%
Run 7: Report of Copa — Data Link

![Graph showing throughput over time](image)

- **Flow 1 ingress (mean 240.36 Mbit/s)**
- **Flow 1 egress (mean 240.56 Mbit/s)**

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

- **Flow 1 (95th percentile 59.81 ms)**
Run 8: Statistics of Copa

Start at: 2018-07-27 05:00:40
End at: 2018-07-27 05:01:10
Local clock offset: -0.009 ms
Remote clock offset: -1.319 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.92 Mbit/s
95th percentile per-packet one-way delay: 58.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.92 Mbit/s
95th percentile per-packet one-way delay: 58.267 ms
Loss rate: 0.00%
Run 8: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 221.51 Mbit/s)**
- **Flow 1 egress (mean 236.92 Mbit/s)**

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

- **Flow 1 (95th percentile 58.27 ms)**
Run 9: Statistics of Copa

Local clock offset: 0.056 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.55 Mbit/s
95th percentile per-packet one-way delay: 59.826 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 164.55 Mbit/s
95th percentile per-packet one-way delay: 59.826 ms
Loss rate: 0.33%
Run 9: Report of Copa — Data Link

![Graph of throughput and packet delay over time for Flow 1 ingress and egress data, with mean rates of 164.54 Mbit/s and 164.55 Mbit/s respectively.]

Flow 1 ingress (mean 164.54 Mbit/s) vs Flow 1 egress (mean 164.55 Mbit/s)
Run 10: Statistics of Copa

Start at: 2018-07-27 05:44:15
End at: 2018-07-27 05:44:45
Local clock offset: 0.071 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 53.406 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 52.29 Mbit/s
95th percentile per-packet one-way delay: 53.406 ms
Loss rate: 0.34%
Run 10: Report of Copa — Data Link

![Graph showing throughput over time](image)

![Graph showing delay distribution](image)

*Flow 1 ingress (mean 52.29 Mbit/s) — Flow 1 egress (mean 52.29 Mbit/s)*

*Flow 1 (95th percentile 53.41 ms)*
Run 1: Statistics of TCP Cubic

Start at: 2018-07-27 02:30:57
End at: 2018-07-27 02:31:27
Local clock offset: -0.103 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 62.986 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 62.986 ms
Loss rate: 0.36%
Run 1: Report of TCP Cubic — Data Link

---

**Throughput vs Time**

- Flow 1 ingress (mean 218.91 Mbit/s)
- Flow 1 egress (mean 218.87 Mbit/s)

**Packet Loss vs Time**

- Flow 1 (95th percentile 62.99 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-07-27 02:52:44
End at: 2018-07-27 02:53:14
Local clock offset: -0.049 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.84 Mbit/s
95th percentile per-packet one-way delay: 63.163 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 200.84 Mbit/s
95th percentile per-packet one-way delay: 63.163 ms
Loss rate: 0.25%
Run 3: Statistics of TCP Cubic

Start at: 2018-07-27 03:14:29
End at: 2018-07-27 03:14:59
Local clock offset: 0.045 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.45 Mbit/s
95th percentile per-packet one-way delay: 63.330 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 218.45 Mbit/s
95th percentile per-packet one-way delay: 63.330 ms
Loss rate: 0.37%
Run 3: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 218.54 Mbit/s)
- Flow 1 egress (mean 218.45 Mbit/s)

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

- Flow 1 (95th percentile 63.33 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-07-27 03:35:56
End at: 2018-07-27 03:36:26
Local clock offset: -0.265 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.90 Mbit/s
95th percentile per-packet one-way delay: 62.535 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 218.90 Mbit/s
95th percentile per-packet one-way delay: 62.535 ms
Loss rate: 0.40%
Run 4: Report of TCP Cubic — Data Link

Graph showing throughput (Mbps) over time (s) with two lines indicating Flow 1 ingress (mean 219.04 Mbit/s) and Flow 1 egress (mean 218.90 Mbit/s).

Second graph showing packet delay (ms) over time (s) with a marker indicating Flow 1 (95th percentile 62.53 ms).
Run 5: Statistics of TCP Cubic

Start at: 2018-07-27 03:57:46
End at: 2018-07-27 03:58:16
Local clock offset: -0.118 ms
Remote clock offset: 1.158 ms

# Below is generated by plot.py at 2018-07-27 06:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 61.284 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 61.284 ms
Loss rate: 0.38%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-07-27 04:19:16
End at: 2018-07-27 04:19:46
Local clock offset: -0.1 ms
Remote clock offset: 1.166 ms

# Below is generated by plot.py at 2018-07-27 06:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.06 Mbit/s
95th percentile per-packet one-way delay: 61.785 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 169.06 Mbit/s
95th percentile per-packet one-way delay: 61.785 ms
Loss rate: 0.36%
Run 6: Report of TCP Cubic — Data Link

![Graph](image1)

Flow 1 ingress (mean 165.09 Mbit/s)  Flow 1 egress (mean 169.06 Mbit/s)

![Graph](image2)

Flow 1 (95th percentile 61.78 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-07-27 04:41:02
End at: 2018-07-27 04:41:32
Local clock offset: -0.216 ms
Remote clock offset: -1.478 ms

# Below is generated by plot.py at 2018-07-27 06:20:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.91 Mbit/s
95th percentile per-packet one-way delay: 61.496 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 221.91 Mbit/s
95th percentile per-packet one-way delay: 61.496 ms
Loss rate: 0.37%
Run 7: Report of TCP Cubic — Data Link

![Graph of TCP Cubic data link with throughput and per-packet one-way delay](image-url)
Run 8: Statistics of TCP Cubic

Start at: 2018-07-27 05:03:13
End at: 2018-07-27 05:03:43
Local clock offset: -0.022 ms
Remote clock offset: -1.436 ms

# Below is generated by plot.py at 2018-07-27 06:21:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.43 Mbit/s
95th percentile per-packet one-way delay: 64.907 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 224.43 Mbit/s
95th percentile per-packet one-way delay: 64.907 ms
Loss rate: 0.39%
Run 8: Report of TCP Cubic — Data Link

![Graph of throughput over time](image)

- **Flow 1 ingress (mean 224.54 Mbit/s)**
- **Flow 1 egress (mean 224.43 Mbit/s)**

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

- **Flow 1 (95th percentile 64.91 ms)**
Run 9: Statistics of TCP Cubic

Start at: 2018-07-27 05:24:55
End at: 2018-07-27 05:25:25
Local clock offset: 0.03 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-07-27 06:21:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.21 Mbit/s
95th percentile per-packet one-way delay: 62.992 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 200.21 Mbit/s
95th percentile per-packet one-way delay: 62.992 ms
Loss rate: 0.39%
Run 9: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 200.30 Mbit/s)
- Flow 1 egress (mean 200.21 Mbit/s)

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

- Flow 1 (95th percentile 62.99 ms)
Run 10: Statistics of TCP Cubic

Start at: 2018-07-27 05:46:33
End at: 2018-07-27 05:47:03
Local clock offset: -0.047 ms
Remote clock offset: -1.377 ms

# Below is generated by plot.py at 2018-07-27 06:21:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 196.97 Mbit/s
  95th percentile per-packet one-way delay: 65.725 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 196.97 Mbit/s
  95th percentile per-packet one-way delay: 65.725 ms
  Loss rate: 0.25%
Run 10: Report of TCP Cubic — Data Link

![Graph of TCP Cubic performance metrics over time, showing throughput and packet delay trends.]

- Throughput (Mbps)
- Time (s)

---

Flow 1 ingress (mean 196.78 Mbit/s)
Flow 1 egress (mean 196.97 Mbit/s)

---

Flow 1 (95th percentile 65.72 ms)
Run 1: Statistics of FillP

Start at: 2018-07-27 02:15:48
End at: 2018-07-27 02:16:18
Local clock offset: 0.012 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-07-27 06:37:36
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 720.99 Mbit/s
  95th percentile per-packet one-way delay: 244.145 ms
  Loss rate: 2.52%
-- Flow 1:
  Average throughput: 720.99 Mbit/s
  95th percentile per-packet one-way delay: 244.145 ms
  Loss rate: 2.52%
Run 1: Report of FillP — Data Link

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

Start at: 2018-07-27 02:37:34
End at: 2018-07-27 02:38:04
Local clock offset: -0.172 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2018-07-27 06:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 688.24 Mbit/s
95th percentile per-packet one-way delay: 197.887 ms
Loss rate: 5.45%
-- Flow 1:
Average throughput: 688.24 Mbit/s
95th percentile per-packet one-way delay: 197.887 ms
Loss rate: 5.45%
Run 2: Report of FillP — Data Link

![Graph 1: Throughput](image1)

Flow 1 ingress (mean 725.28 Mbit/s)  Flow 1 egress (mean 688.24 Mbit/s)

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

Flow 1 (95th percentile 197.89 ms)
Run 3: Statistics of FillP

Start at: 2018-07-27 02:59:18
End at: 2018-07-27 02:59:48
Local clock offset: -0.157 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-07-27 06:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 644.82 Mbit/s
95th percentile per-packet one-way delay: 285.153 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 644.82 Mbit/s
95th percentile per-packet one-way delay: 285.153 ms
Loss rate: 4.59%
Run 3: Report of FillP — Data Link

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

- **Flow 1 ingress** (mean 673.51 Mbit/s)
- **Flow 1 egress** (mean 644.82 Mbit/s)

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

- **Flow 1** (95th percentile 285.15 ms)
Run 4: Statistics of FillP

Start at: 2018-07-27 03:20:47
End at: 2018-07-27 03:21:17
Local clock offset: -0.22 ms
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2018-07-27 06:38:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 721.17 Mbit/s
95th percentile per-packet one-way delay: 262.516 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 721.17 Mbit/s
95th percentile per-packet one-way delay: 262.516 ms
Loss rate: 3.44%
Run 4: Report of FillP — Data Link

![Graph showing throughput and delay over time]
Run 5: Statistics of FillP

Start at: 2018-07-27 03:42:30
End at: 2018-07-27 03:43:00
Local clock offset: -0.034 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-07-27 06:40:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 776.89 Mbit/s
95th percentile per-packet one-way delay: 236.987 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 776.89 Mbit/s
95th percentile per-packet one-way delay: 236.987 ms
Loss rate: 2.37%
Run 5: Report of FillP — Data Link

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

- **Flow 1 Ingress (mean 792.99 Mbits/s)**
- **Flow 1 Egress (mean 776.89 Mbits/s)**

![Graph of time series data](image)

- **Flow 1 (95th percentile 236.99 ms)**
Run 6: Statistics of FillP

Start at: 2018-07-27 04:04:00
End at: 2018-07-27 04:04:30
Local clock offset: 0.118 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-07-27 06:40:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 698.57 Mbit/s
95th percentile per-packet one-way delay: 258.172 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 698.57 Mbit/s
95th percentile per-packet one-way delay: 258.172 ms
Loss rate: 3.57%
Run 6: Report of FillP — Data Link

Throughput (Mbps):

Flow 1 ingress (mean 721.95 Mbps)  Flow 1 egress (mean 698.57 Mbps)

End-to-end delay (ms):

- Flow 1 (95th percentile 258.17 ms)
Run 7: Statistics of FillP

Start at: 2018-07-27 04:25:34
End at: 2018-07-27 04:26:04
Local clock offset: 0.229 ms
Remote clock offset: -1.312 ms

# Below is generated by plot.py at 2018-07-27 06:41:00
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 750.47 Mbit/s
  95th percentile per-packet one-way delay: 241.029 ms
  Loss rate: 4.91%
-- Flow 1:
  Average throughput: 750.47 Mbit/s
  95th percentile per-packet one-way delay: 241.029 ms
  Loss rate: 4.91%
Run 7: Report of FillP — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 786.41 Mbps)**
- **Flow 1 egress (mean 750.47 Mbps)**

---

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

- **Flow 1 (95th percentile 241.03 ms)**
Run 8: Statistics of FillP

Start at: 2018-07-27 04:47:45
End at: 2018-07-27 04:48:15
Local clock offset: -0.168 ms
Remote clock offset: -0.4 ms

# Below is generated by plot.py at 2018-07-27 06:41:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 711.77 Mbit/s
95th percentile per-packet one-way delay: 253.130 ms
Loss rate: 3.47%
-- Flow 1:
Average throughput: 711.77 Mbit/s
95th percentile per-packet one-way delay: 253.130 ms
Loss rate: 3.47%
Run 8: Report of FillP — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 734.82 Mbps)**
- **Flow 1 egress (mean 711.77 Mbps)**

---

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

- **Flow 1 (95th percentile 251.13 ms)**
Run 9: Statistics of FILLP

Start at: 2018-07-27 05:09:38
End at: 2018-07-27 05:10:09
Local clock offset: 0.132 ms
Remote clock offset: 1.363 ms

# Below is generated by plot.py at 2018-07-27 06:55:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 718.45 Mbit/s
95th percentile per-packet one-way delay: 254.837 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 718.45 Mbit/s
95th percentile per-packet one-way delay: 254.837 ms
Loss rate: 4.69%
Run 9: Report of FillP — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 751.17 Mbit/s)
- Flow 1 egress (mean 718.45 Mbit/s)

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

- Flow 1 (95th percentile 254.84 ms)
Run 10: Statistics of FillP

Start at: 2018-07-27 05:31:29
End at: 2018-07-27 05:31:59
Local clock offset: -0.008 ms
Remote clock offset: -1.387 ms

# Below is generated by plot.py at 2018-07-27 06:56:03
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 714.80 Mbit/s
  95th percentile per-packet one-way delay: 263.241 ms
  Loss rate: 3.89%
-- Flow 1:
  Average throughput: 714.80 Mbit/s
  95th percentile per-packet one-way delay: 263.241 ms
  Loss rate: 3.89%
Run 10: Report of FillP — Data Link

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

![Graph 2: Packet one-way delay (ms)](image2)
Run 1: Statistics of FillP-Sheep

Start at: 2018-07-27 02:14:15
End at: 2018-07-27 02:14:45
Local clock offset: -0.078 ms
Remote clock offset: -1.451 ms

# Below is generated by plot.py at 2018-07-27 06:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 710.08 Mbit/s
95th percentile per-packet one-way delay: 100.206 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 710.08 Mbit/s
95th percentile per-packet one-way delay: 100.206 ms
Loss rate: 0.51%
Run 1: Report of FillP-Sheep — Data Link
Run 2: Statistics of FillP-Sheep

Start at: 2018-07-27 02:36:02
End at: 2018-07-27 02:36:32
Local clock offset: 0.092 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-07-27 06:57:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 728.17 Mbit/s
95th percentile per-packet one-way delay: 112.589 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 728.17 Mbit/s
95th percentile per-packet one-way delay: 112.589 ms
Loss rate: 0.44%
Run 2: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 728.80 Mbps)**
- **Flow 1 egress (mean 728.17 Mbps)**

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

- **Flow 1 (95th percentile 132.59 ms)**
Run 3: Statistics of FillP-Sheep

Start at: 2018-07-27 02:57:47
End at: 2018-07-27 02:58:17
Local clock offset: -0.1 ms
Remote clock offset: -1.288 ms

# Below is generated by plot.py at 2018-07-27 06:57:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 694.00 Mbit/s
95th percentile per-packet one-way delay: 121.645 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 694.00 Mbit/s
95th percentile per-packet one-way delay: 121.645 ms
Loss rate: 0.72%
Run 3: Report of FillP-Sheep — Data Link

![Throughput Graph](chart1.png)

![Delay Graph](chart2.png)
Run 4: Statistics of FillP-Sheep

Start at: 2018-07-27 03:19:13
End at: 2018-07-27 03:19:43
Local clock offset: 0.066 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-27 06:59:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 755.80 Mbit/s
95th percentile per-packet one-way delay: 111.282 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 755.80 Mbit/s
95th percentile per-packet one-way delay: 111.282 ms
Loss rate: 0.51%
Run 4: Report of FillP-Sheep — Data Link

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

- Flow 1 ingress (mean 757.21 Mbit/s)
- Flow 1 egress (mean 755.80 Mbit/s)

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

- Flow 1 (95th percentile 111.28 ms)
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-27 03:40:57
End at: 2018-07-27 03:41:27
Local clock offset: -0.125 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-07-27 06:59:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 724.53 Mbit/s
95th percentile per-packet one-way delay: 107.417 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 724.53 Mbit/s
95th percentile per-packet one-way delay: 107.417 ms
Loss rate: 0.54%
Run 5: Report of FillP-Sheep — Data Link
Run 6: Statistics of FillP-Sheep

Start at: 2018-07-27 04:02:27
End at: 2018-07-27 04:02:57
Local clock offset: 0.022 ms
Remote clock offset: 1.297 ms

# Below is generated by plot.py at 2018-07-27 07:00:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 734.53 Mbit/s
95th percentile per-packet one-way delay: 105.126 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 734.53 Mbit/s
95th percentile per-packet one-way delay: 105.126 ms
Loss rate: 0.60%
Run 6: Report of FillP-Sheep — Data Link

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

- Flow 1 ingress (mean 736.34 Mbit/s)
- Flow 1 egress (mean 734.53 Mbit/s)

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

- Flow 1 (95th percentile 105.13 ms)
Run 7: Statistics of FillP-Sheep

Start at: 2018-07-27 04:24:00
End at: 2018-07-27 04:24:30
Local clock offset: -0.012 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-07-27 07:15:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 735.21 Mbit/s
95th percentile per-packet one-way delay: 92.822 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 735.21 Mbit/s
95th percentile per-packet one-way delay: 92.822 ms
Loss rate: 0.48%
Run 7: Report of FillP-Sheep — Data Link
Run 8: Statistics of FillP-Sheep

End at: 2018-07-27 04:46:41
Local clock offset: -0.21 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-07-27 07:15:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 748.78 Mbit/s
95th percentile per-packet one-way delay: 128.199 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 748.78 Mbit/s
95th percentile per-packet one-way delay: 128.199 ms
Loss rate: 0.94%
Run 8: Report of FillP-Sheep — Data Link
Run 9: Statistics of FillP-Sheep

Start at: 2018-07-27 05:08:03
End at: 2018-07-27 05:08:33
Local clock offset: -0.185 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-07-27 07:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.65 Mbit/s
95th percentile per-packet one-way delay: 123.666 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 777.65 Mbit/s
95th percentile per-packet one-way delay: 123.666 ms
Loss rate: 0.68%
Run 9: Report of FillP-Sheep — Data Link

![Throughput and Delay Plots](image-url)
Run 10: Statistics of FillP-Sheep

Start at: 2018-07-27 05:29:55
End at: 2018-07-27 05:30:25
Local clock offset: 0.026 ms
Remote clock offset: 1.493 ms

# Below is generated by plot.py at 2018-07-27 07:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.39 Mbit/s
95th percentile per-packet one-way delay: 124.717 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 727.39 Mbit/s
95th percentile per-packet one-way delay: 124.717 ms
Loss rate: 1.00%
Run 1: Statistics of Indigo

Start at: 2018-07-27 02:22:15
End at: 2018-07-27 02:22:45
Local clock offset: 0.026 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-07-27 07:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.06 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 224.06 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 0.35%
Run 1: Report of Indigo — Data Link

![Graph](image)

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 224.06 Mbit/s)
- Flow 1 egress (mean 224.06 Mbit/s)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 53.88 ms)
Run 2: Statistics of Indigo

Start at: 2018-07-27 02:44:05
End at: 2018-07-27 02:44:35
Local clock offset: -0.233 ms
Remote clock offset: -1.531 ms

# Below is generated by plot.py at 2018-07-27 07:17:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.72 Mbit/s
95th percentile per-packet one-way delay: 51.440 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 248.72 Mbit/s
95th percentile per-packet one-way delay: 51.440 ms
Loss rate: 0.30%
Run 2: Report of Indigo — Data Link

![Graph showing throughput and packet delay over time]

- **Flow 1 ingress (mean 248.58 Mbit/s)**
- **Flow 1 egress (mean 248.72 Mbit/s)**

![Graph showing packet delay over time]

- **Flow 1 (95th percentile 51.44 ms)**
Run 3: Statistics of Indigo

Start at: 2018-07-27 03:05:40
End at: 2018-07-27 03:06:10
Local clock offset: -0.089 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.92 Mbit/s
95th percentile per-packet one-way delay: 53.901 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 215.92 Mbit/s
95th percentile per-packet one-way delay: 53.901 ms
Loss rate: 0.34%
Run 3: Report of Indigo — Data Link

![Throughput Graph]

![Packet Loss Graph]
Run 4: Statistics of Indigo

Start at: 2018-07-27 03:27:09
End at: 2018-07-27 03:27:39
Local clock offset: -0.267 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.05 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 238.05 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.33%
Run 4: Report of Indigo — Data Link

![Data Link Throughput Graph]

![Data Link Delay Graph]
Run 5: Statistics of Indigo

Start at: 2018-07-27 03:48:58
End at: 2018-07-27 03:49:28
Local clock offset: 0.006 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.36 Mbit/s
95th percentile per-packet one-way delay: 55.277 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 225.36 Mbit/s
95th percentile per-packet one-way delay: 55.277 ms
Loss rate: 0.37%
Run 5: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 225.43 Mbps)
- Flow 1 egress (mean 225.36 Mbps)

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

- Flow 1 (95th percentile 55.28 ms)
Run 6: Statistics of Indigo

Start at: 2018-07-27 04:10:24
End at: 2018-07-27 04:10:54
Local clock offset: 0.152 ms
Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.23 Mbit/s
95th percentile per-packet one-way delay: 53.745 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 243.23 Mbit/s
95th percentile per-packet one-way delay: 53.745 ms
Loss rate: 0.35%
Run 6: Report of Indigo — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 243.22 Mbit/s)
- Flow 1 egress (mean 243.23 Mbit/s)

![Graph 2: Packet Arrival Rate vs Time]

- Flow 1 (95th percentile 53.74 ms)
Run 7: Statistics of Indigo

Start at: 2018-07-27 04:32:05
End at: 2018-07-27 04:32:35
Local clock offset: -0.227 ms
Remote clock offset: -1.49 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.79 Mbit/s
95th percentile per-packet one-way delay: 54.974 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 212.79 Mbit/s
95th percentile per-packet one-way delay: 54.974 ms
Loss rate: 0.38%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-07-27 04:54:15
End at: 2018-07-27 04:54:45
Local clock offset: 0.102 ms
Remote clock offset: -1.31 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.69 Mbit/s
95th percentile per-packet one-way delay: 54.993 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 233.69 Mbit/s
95th percentile per-packet one-way delay: 54.993 ms
Loss rate: 0.33%
Run 8: Report of Indigo — Data Link
Run 9: Statistics of Indigo

Start at: 2018-07-27 05:16:07
End at: 2018-07-27 05:16:37
Local clock offset: ~0.072 ms
Remote clock offset: ~0.04 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 221.65 Mbit/s
  95th percentile per-packet one-way delay: 53.916 ms
  Loss rate: 0.33%
  -- Flow 1:
  Average throughput: 221.65 Mbit/s
  95th percentile per-packet one-way delay: 53.916 ms
  Loss rate: 0.33%
Run 10: Statistics of Indigo

Start at: 2018-07-27 05:37:51
End at: 2018-07-27 05:38:21
Local clock offset: 0.068 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.17 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 238.17 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.34%
Run 10: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 230.06 Mbit/s)
- Flow 1 egress (mean 238.17 Mbit/s)

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

- Flow 1 (95th percentile 53.80 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-07-27 02:27:27
End at: 2018-07-27 02:27:57
Local clock offset: -0.038 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 54.355 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 54.355 ms
Loss rate: 0.71%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-07-27 02:49:21
End at: 2018-07-27 02:49:51
Local clock offset: -0.076 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 55.106 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 55.106 ms
Loss rate: 0.69%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-07-27 03:10:54
End at: 2018-07-27 03:11:24
Local clock offset: -0.017 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 54.859 ms
Loss rate: 0.69%

-- Flow 1:
Average throughput: 32.50 Mbit/s
95th percentile per-packet one-way delay: 54.859 ms
Loss rate: 0.69%
Run 3: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 32.62 Mbps)
- Flow 1 egress (mean 32.50 Mbps)

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

- Flow 1 (95th percentile 54.86 ms)
Run 4: Statistics of LEDBAT

Start at: 2018-07-27 03:32:23
End at: 2018-07-27 03:32:53
Local clock offset: 0.107 ms
Remote clock offset: 1.253 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.70%

-- Flow 1:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.70%
Run 4: Report of LEDBAT — Data Link

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

- Throughput: The dashed line represents the ingress data rate (mean 31.86 MB/s) and the solid line represents the egress data rate (mean 31.74 MB/s).
- Packet Delay: The graph indicates variability in packet delay, with a 95th percentile delay of 53.92 ms for Flow 1.
Run 5: Statistics of LEDBAT

Start at: 2018-07-27 03:54:13
End at: 2018-07-27 03:54:43
Local clock offset: -0.135 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 54.516 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 54.516 ms
Loss rate: 0.69%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Start at: 2018-07-27 04:15:43
End at: 2018-07-27 04:16:13
Local clock offset: -0.247 ms
Remote clock offset: 1.32 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 53.241 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 53.241 ms
Loss rate: 0.67%
Run 6: Report of LEDBAT — Data Link

![Graph of throughput over time]

- Flow 1 ingress (mean 34.51 Mbit/s)
- Flow 1 egress (mean 34.40 Mbit/s)

![Graph of packet delay over time]

- Flow 1 95th percentile 53.24 ms
Run 7: Statistics of LEDBAT

Start at: 2018-07-27 04:37:19
End at: 2018-07-27 04:37:49
Local clock offset: -0.086 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.60 Mbit/s
95th percentile per-packet one-way delay: 54.922 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.60 Mbit/s
95th percentile per-packet one-way delay: 54.922 ms
Loss rate: 0.68%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-07-27 04:59:32
End at: 2018-07-27 05:00:02
Local clock offset: -0.059 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 54.574 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 54.574 ms
Loss rate: 0.68%
Run 8: Report of LEDBAT — Data Link

---

![Graph 1](image1.png)

- **Flow 1 ingress (mean 33.84 Mbit/s)**
- **Flow 1 egress (mean 33.73 Mbit/s)**

---

![Graph 2](image2.png)

- **Flow 1 95th percentile 54.57 ms**
Run 9: Statistics of LEDBAT

End at: 2018-07-27 05:21:50
Local clock offset: -0.102 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 32.17 Mbit/s
  95th percentile per-packet one-way delay: 54.712 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 32.17 Mbit/s
  95th percentile per-packet one-way delay: 54.712 ms
  Loss rate: 0.61%
Run 9: Report of LEDBAT — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 32.25 Mbps)  Flow 1 egress (mean 32.17 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.71 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-07-27 05:43:07
End at: 2018-07-27 05:43:37
Local clock offset: -0.048 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-07-27 07:17:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.37 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.68%
Run 10: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 33.48 Mbit/s)
- Flow 1 egress (mean 33.37 Mbit/s)

- Flow 1 95th percentile 54.90 ms
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-27 02:17:21
End at: 2018-07-27 02:17:51
Local clock offset: 0.145 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-07-27 07:23:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.65 Mbit/s
95th percentile per-packet one-way delay: 188.389 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 414.65 Mbit/s
95th percentile per-packet one-way delay: 188.389 ms
Loss rate: 0.35%
Run 1: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress (mean 414.63 Mbit/s)**
- **Flow 1 egress (mean 414.05 Mbit/s)**

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

- **Flow 1 (95th percentile 188.39 ms)**
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-27 02:39:06
End at: 2018-07-27 02:39:36
Local clock offset: -0.16 ms
Remote clock offset: 1.368 ms

# Below is generated by plot.py at 2018-07-27 07:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 453.08 Mbit/s
95th percentile per-packet one-way delay: 188.843 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 453.08 Mbit/s
95th percentile per-packet one-way delay: 188.843 ms
Loss rate: 1.21%
Run 2: Report of PCC-Allegro — Data Link

![Graph 1: Throughput vs. Time](image1)
- Flow 1 ingress (mean 456.97 Mbit/s)
- Flow 1 egress (mean 453.08 Mbit/s)

![Graph 2: Per-Packet Delay vs. Time](image2)
- Flow 1 (95th percentile 188.84 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-27 03:00:49
End at: 2018-07-27 03:01:19
Local clock offset: -0.141 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-07-27 07:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.26 Mbit/s
95th percentile per-packet one-way delay: 133.092 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 420.26 Mbit/s
95th percentile per-packet one-way delay: 133.092 ms
Loss rate: 0.55%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 421.17 Mbit/s)
- Flow 1 egress (mean 420.26 Mbit/s)

![Graph 2: Per Packet One Way Delay (ms)](image2.png)

- Flow 1 (95th percentile 133.69 ms)
Run 4: Statistics of PCC-Allegro

End at: 2018-07-27 03:22:51
Local clock offset: -0.049 ms
Remote clock offset: 1.268 ms

# Below is generated by plot.py at 2018-07-27 07:24:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 337.62 Mbit/s
  95th percentile per-packet one-way delay: 52.476 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 337.62 Mbit/s
  95th percentile per-packet one-way delay: 52.476 ms
  Loss rate: 0.43%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-07-27 03:44:05
End at: 2018-07-27 03:44:35
Local clock offset: 0.066 ms
Remote clock offset: -1.414 ms

# Below is generated by plot.py at 2018-07-27 07:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.41 Mbit/s
95th percentile per-packet one-way delay: 196.246 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 403.41 Mbit/s
95th percentile per-packet one-way delay: 196.246 ms
Loss rate: 0.47%
Run 6: Statistics of PCC-Allegro

Start at: 2018-07-27 04:05:33
End at: 2018-07-27 04:06:03
Local clock offset: -0.186 ms
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-07-27 07:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.96 Mbit/s
95th percentile per-packet one-way delay: 61.387 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 293.96 Mbit/s
95th percentile per-packet one-way delay: 61.387 ms
Loss rate: 0.59%
Run 6: Report of PCC-Allegro — Data Link
Run 7: Statistics of PCC-Allegro

Local clock offset: 0.161 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-07-27 07:24:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 423.01 Mbit/s
95th percentile per-packet one-way delay: 215.180 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 423.01 Mbit/s
95th percentile per-packet one-way delay: 215.180 ms
Loss rate: 1.41%
Run 7: Report of PCC-Allegro — Data Link

[Graphs showing throughput and packet delay over time]
Run 8: Statistics of PCC-Allegro

Start at: 2018-07-27 04:49:19
End at: 2018-07-27 04:49:49
Local clock offset: -0.011 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-07-27 07:25:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.26 Mbit/s
95th percentile per-packet one-way delay: 68.541 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 352.26 Mbit/s
95th percentile per-packet one-way delay: 68.541 ms
Loss rate: 0.50%
Run 8: Report of PCC-Allegro — Data Link

![Graph of Throughput and Packet Delay](image-url)

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 352.82 Mbps)
  - Flow 1 egress (mean 352.26 Mbps)

- **Packet Delay (ms)**
  - Flow 1 (95th percentile 68.54 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-07-27 05:11:13
End at: 2018-07-27 05:11:43
Local clock offset: -0.058 ms
Remote clock offset: -1.221 ms

# Below is generated by plot.py at 2018-07-27 07:29:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.51 Mbit/s
95th percentile per-packet one-way delay: 210.167 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 367.51 Mbit/s
95th percentile per-packet one-way delay: 210.167 ms
Loss rate: 1.47%
Run 9: Report of PCC-Allegro — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 371.72 Mbps)
  - Flow 1 egress (mean 367.51 Mbps)

- Per packet one way delay (ms)
  - Flow 1 (95th percentile 210.17 ms)
Run 10: Statistics of PCC-Allegro

Start at: 2018-07-27 05:33:03
End at: 2018-07-27 05:33:33
Local clock offset: ~0.111 ms
Remote clock offset: ~0.209 ms

# Below is generated by plot.py at 2018-07-27 07:30:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.72 Mbit/s
95th percentile per-packet one-way delay: 189.165 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 402.72 Mbit/s
95th percentile per-packet one-way delay: 189.165 ms
Loss rate: 0.47%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-07-27 02:34:35
End at: 2018-07-27 02:35:05
Local clock offset: -0.156 ms
Remote clock offset: -0.297 ms

# Below is generated by plot.py at 2018-07-27 07:33:55
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 274.55 Mbit/s
  95th percentile per-packet one-way delay: 58.989 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 274.55 Mbit/s
  95th percentile per-packet one-way delay: 58.989 ms
  Loss rate: 0.45%
Run 1: Report of PCC-Expr — Data Link

Not applicable.
Run 2: Statistics of PCC-Expr

Start at: 2018-07-27 02:56:21
End at: 2018-07-27 02:56:51
Local clock offset: -0.062 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-07-27 07:35:00
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 282.11 Mbit/s
  95th percentile per-packet one-way delay: 296.467 ms
  Loss rate: 10.01%
-- Flow 1:
  Average throughput: 282.11 Mbit/s
  95th percentile per-packet one-way delay: 296.467 ms
  Loss rate: 10.01%
Run 2: Report of PCC-Expr — Data Link

Throughput (Mbps) vs Time (s)

- Flow 1 ingress (mean 312.37 Mbps)
- Flow 1 egress (mean 282.11 Mbps)

Round-trip delay (ms) vs Time (s)

- Flow 1 (95th percentile 296.47 ms)
Run 3: Statistics of PCC-Expr

Start at: 2018-07-27 03:17:58
End at: 2018-07-27 03:18:28
Local clock offset: -0.163 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-07-27 07:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.28 Mbit/s
95th percentile per-packet one-way delay: 53.548 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 108.28 Mbit/s
95th percentile per-packet one-way delay: 53.548 ms
Loss rate: 0.37%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

End at: 2018-07-27 03:39:58  
Local clock offset: -0.136 ms  
Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2018-07-27 07:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.76 Mbit/s  
95th percentile per-packet one-way delay: 169.178 ms  
Loss rate: 1.57%
-- Flow 1:
Average throughput: 324.76 Mbit/s  
95th percentile per-packet one-way delay: 169.178 ms  
Loss rate: 1.57%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2018-07-27 04:01:13
End at: 2018-07-27 04:01:43
Local clock offset: -0.189 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-07-27 07:36:58
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 99.00 Mbit/s
  95th percentile per-packet one-way delay: 53.570 ms
  Loss rate: 0.40%
-- Flow 1:
  Average throughput: 99.00 Mbit/s
  95th percentile per-packet one-way delay: 53.570 ms
  Loss rate: 0.40%
Run 5: Report of PCC-Expr — Data Link

Graph showing throughput and packet delay over time.
Run 6: Statistics of PCC-Expr

End at: 2018-07-27 04:23:16
Local clock offset: -0.134 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-07-27 07:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.60 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.32%

-- Flow 1:
Average throughput: 98.60 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.32%
Run 6: Report of PCC-Expr — Data Link

[Graph showing throughput and packet delay over time]
Run 7: Statistics of PCC-Expr

Start at: 2018-07-27 04:44:42
End at: 2018-07-27 04:45:12
Local clock offset: -0.166 ms
Remote clock offset: -0.393 ms

# Below is generated by plot.py at 2018-07-27 07:39:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.00 Mbit/s
95th percentile per-packet one-way delay: 169.640 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 273.00 Mbit/s
95th percentile per-packet one-way delay: 169.640 ms
Loss rate: 1.07%
Run 7: Report of PCC-Expr — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 274.94 Mbit/s)
- Flow 1 egress (mean 273.00 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 169.64 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-07-27 05:06:40
End at: 2018-07-27 05:07:10
Local clock offset: 0.048 ms
Remote clock offset: 1.177 ms

# Below is generated by plot.py at 2018-07-27 07:39:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 180.128 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 180.128 ms
Loss rate: 1.22%
Run 8: Report of PCC-Expr — Data Link
Run 9: Statistics of PCC-Expr

Start at: 2018-07-27 05:28:23
End at: 2018-07-27 05:28:53
Local clock offset: 0.233 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2018-07-27 07:44:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.25 Mbit/s
95th percentile per-packet one-way delay: 199.072 ms
Loss rate: 8.23%
-- Flow 1:
Average throughput: 319.25 Mbit/s
95th percentile per-packet one-way delay: 199.072 ms
Loss rate: 8.23%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Start at: 2018-07-27 05:50:15
End at: 2018-07-27 05:50:45
Local clock offset: -0.043 ms
Remote clock offset: -1.213 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 344.41 Mbit/s
  95th percentile per-packet one-way delay: 280.523 ms
  Loss rate: 10.10%
-- Flow 1:
  Average throughput: 344.41 Mbit/s
  95th percentile per-packet one-way delay: 280.523 ms
  Loss rate: 10.10%
Run 1: Statistics of QUIC Cubic

Start at: 2018-07-27 02:29:48
End at: 2018-07-27 02:30:18
Local clock offset: -0.184 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 61.05 Mbit/s
  95th percentile per-packet one-way delay: 53.783 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 61.05 Mbit/s
  95th percentile per-packet one-way delay: 53.783 ms
  Loss rate: 0.58%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-27 02:51:38
End at: 2018-07-27 02:52:08
Local clock offset: 0.036 ms
Remote clock offset: -0.027 ms
Run 2: Report of QUIC Cubic — Data Link

[Graph showing throughput over time with two lines indicating different mean rates.]

[Graph showing packet round-trip delay over time with an annotation indicating 95th percentile delay.]
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-27 03:13:21
End at: 2018-07-27 03:13:51
Local clock offset: -0.307 ms
Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 53.407 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 53.407 ms
Loss rate: 0.57%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-07-27 03:34:47
End at: 2018-07-27 03:35:17
Local clock offset: -0.192 ms
Remote clock offset: -1.458 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 54.832 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 54.832 ms
Loss rate: 0.54%
Run 4: Report of QUIC Cubic — Data Link

[Graphs showing throughput and one-way delay over time for Flow 1]
Run 5: Statistics of QUIC Cubic

Start at: 2018-07-27 03:56:37
End at: 2018-07-27 03:57:07
Local clock offset: 0.02 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.71 Mbit/s
95th percentile per-packet one-way delay: 53.578 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 70.71 Mbit/s
95th percentile per-packet one-way delay: 53.578 ms
Loss rate: 0.50%
Run 5: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 70.83 Mbit/s)
  - Flow 1 egress (mean 70.71 Mbit/s)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 53.58 ms)
Run 6: Statistics of QUIC Cubic

Start at: 2018-07-27 04:18:07
End at: 2018-07-27 04:18:37
Local clock offset: 0.073 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.41 Mbit/s
95th percentile per-packet one-way delay: 53.625 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 62.41 Mbit/s
95th percentile per-packet one-way delay: 53.625 ms
Loss rate: 0.61%
Run 6: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs Time for Flow 1 (ingress) and Flow 1 (egress) showing variability in throughput over time.]

![Graph 2: Per-packet one-way delay vs Time for Flow 1 showing variability in packet delay over time.]

[Flow 1 ingress (mean 62.57 Mbit/s) and Flow 1 egress (mean 62.41 Mbit/s)]

[Flow 1 (95th percentile 53.62 ms)]
Run 7: Statistics of QUIC Cubic

End at: 2018-07-27 04:40:23
Local clock offset: 0.019 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 59.73 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.62%
Run 7: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet delay over time]

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 59.89 Mbit/s)  Flow 1 egress (mean 59.73 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 53.95 ms)
Run 8: Statistics of QUIC Cubic

Start at: 2018-07-27 05:02:04
End at: 2018-07-27 05:02:34
Local clock offset: 0.064 ms
Remote clock offset: -1.34 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.39 Mbit/s
95th percentile per-packet one-way delay: 54.676 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 57.39 Mbit/s
95th percentile per-packet one-way delay: 54.676 ms
Loss rate: 0.60%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-07-27 05:23:46
End at: 2018-07-27 05:24:16
Local clock offset: -0.117 ms
Remote clock offset: -0.972 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 51.626 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 62.42 Mbit/s
95th percentile per-packet one-way delay: 51.626 ms
Loss rate: 0.60%
Run 9: Report of QUIC Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 62.58 Mbit/s)  Flow 1 egress (mean 62.42 Mbit/s)

Round-trip one-way delay (ms)

Time (s)

Flow 1 (99th percentile 51.63 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-07-27 05:45:24
End at: 2018-07-27 05:45:54
Local clock offset: 0.083 ms
Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.79 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 65.79 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.56%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-07-27 02:33:29
End at: 2018-07-27 02:33:59
Local clock offset: 0.028 ms
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.039 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.039 ms
Loss rate: 0.38%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-07-27 02:55:16
End at: 2018-07-27 02:55:46
Local clock offset: -0.141 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.39%
Run 2: Report of SCReAM — Data Link

![Graph showing data link performance](image)

- **Throughput**: The throughput data is plotted against time (s). The graph shows two curves, one for flow 1 ingress (mean 0.22 Mbit/s) and another for flow 1 egress (mean 0.22 Mbit/s).

- **Per-packet one-way delay**: The per-packet one-way delay is also plotted against time (s). The graph indicates a delay of approximately 53.80 ms for flow 1 (95th percentile).

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Run 3: Statistics of SCReAM

Start at: 2018-07-27 03:16:53
End at: 2018-07-27 03:17:23
Local clock offset: 0.199 ms
Remote clock offset: -1.232 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.214 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.214 ms
Loss rate: 0.39%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-07-27 03:38:23
End at: 2018-07-27 03:38:53
Local clock offset: 0.071 ms
Remote clock offset: -0.391 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 54.156 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 54.156 ms
  Loss rate: 0.38%
Run 4: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.16 ms)
Run 5: Statistics of SCReAM

Start at: 2018-07-27 04:00:08
End at: 2018-07-27 04:00:38
Local clock offset: -0.103 ms
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.38%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Local clock offset: -0.239 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.26%
Run 6: Report of SCReAM — Data Link

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[Graph showing throughput over time with legends for Flow 1 ingress (mean 0.21 Mbit/s) and Flow 1 egress (mean 0.21 Mbit/s).]

[Graph showing per-packet one way delay (ms) over time with legend for Flow 1 (95th percentile 53.57 ms).]
Run 7: Statistics of SCReAM

Start at: 2018-07-27 04:43:36
End at: 2018-07-27 04:44:06
Local clock offset: -0.009 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2018-07-27 07:45:19
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.125 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.125 ms
  Loss rate: 0.38%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-07-27 05:05:35
End at: 2018-07-27 05:06:05
Local clock offset: -0.059 ms
Remote clock offset: 1.289 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 52.653 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 52.653 ms
Loss rate: 0.38%
Run 8: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)

![Graph showing packet delay over time for Flow 1 with 95th percentile 52.65 ms.]
Run 9: Statistics of SCReAM

Start at: 2018-07-27 05:27:17
End at: 2018-07-27 05:27:47
Local clock offset: -0.09 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.39%
Run 9: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 54.01 ms)
Run 10: Statistics of SCReAM

Start at: 2018-07-27 05:49:09
End at: 2018-07-27 05:49:39
Local clock offset: -0.019 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.387 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.387 ms
Loss rate: 0.39%
Run 10: Report of SCReAM — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 0.21 Mbit/s)  Flow 1 egress (mean 0.21 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 53.39 ms)
Run 1: Statistics of Sprout

Start at: 2018-07-27 02:19:57
End at: 2018-07-27 02:20:27
Local clock offset: -0.065 ms
Remote clock offset: 1.27 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 49.831 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 49.831 ms
Loss rate: 0.16%
Run 1: Report of Sprout — Data Link

![Graph 1](image1)

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

Start at: 2018-07-27 02:41:43
End at: 2018-07-27 02:42:13
Local clock offset: 0.049 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 54.226 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 54.226 ms
Loss rate: 0.11%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 4.16 Mbit/s)
- Flow 1 egress (mean 4.17 Mbit/s)
Run 3: Statistics of Sprout

Start at: 2018-07-27 03:03:24
End at: 2018-07-27 03:03:54
Local clock offset: -0.224 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.54%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-07-27 03:24:53
End at: 2018-07-27 03:25:23
Local clock offset: -0.138 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 54.822 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 54.822 ms
Loss rate: 0.30%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-07-27 03:46:39
End at: 2018-07-27 03:47:09
Local clock offset: 0.024 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 6.46 Mbit/s
  95th percentile per-packet one-way delay: 53.660 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 6.46 Mbit/s
  95th percentile per-packet one-way delay: 53.660 ms
  Loss rate: 0.50%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-07-27 04:08:03
End at: 2018-07-27 04:08:33
Local clock offset: 0.042 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 54.850 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 54.850 ms
Loss rate: 0.55%
Run 6: Report of Sprout — Data Link

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

Graph showing per-packet one way delay over time with a 95th percentile marked.

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Run 7: Statistics of Sprout

Start at: 2018-07-27 04:29:44
End at: 2018-07-27 04:30:14
Local clock offset: 0.062 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 0.41%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-07-27 04:51:52
End at: 2018-07-27 04:52:22
Local clock offset: 0.14 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 54.518 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 54.518 ms
Loss rate: 0.37%
Run 8: Report of Sprout — Data Link

![Graph of Throughput](image1)

![Graph of Per-packet round-trip delay](image2)

Flow 1 ingress (mean 6.84 Mbit/s)
Flow 1 egress (mean 6.84 Mbit/s)

Flow 1 (95th percentile 54.52 ms)
Run 9: Statistics of Sprout

End at: 2018-07-27 05:14:17  
Local clock offset: 0.149 ms  
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2018-07-27 07:45:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.81 Mbit/s  
95th percentile per-packet one-way delay: 53.716 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 5.81 Mbit/s  
95th percentile per-packet one-way delay: 53.716 ms  
Loss rate: 0.55%
Run 10: Statistics of Sprout

Start at: 2018-07-27 05:35:38
End at: 2018-07-27 05:36:08
Local clock offset: 0.052 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 6.45 Mbit/s
  95th percentile per-packet one-way delay: 54.708 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 6.45 Mbit/s
  95th percentile per-packet one-way delay: 54.708 ms
  Loss rate: 0.18%
Run 10: Report of Sprout — Data Link

![Graph of throughput over time](image1)

- Flow 1 ingress (mean 6.44 Mbit/s)
- Flow 1 egress (mean 6.45 Mbit/s)

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

- Flow 1 95th percentile 54.71 ms
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-27 02:32:13
End at: 2018-07-27 02:32:43
Local clock offset: 0.101 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.37 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 129.37 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.02%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-07-27 02:53:59
End at: 2018-07-27 02:54:29
Local clock offset: -0.077 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.84 Mbit/s
95th percentile per-packet one-way delay: 53.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.84 Mbit/s
95th percentile per-packet one-way delay: 53.662 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

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

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

- **Graph 1**: Throughput (Mbps) over time for Flow 1. The graph shows two distinct phases where the throughput increases and then decreases. The dashed line represents the ingress (mean 132.86 Mbit/s) and the solid line represents the egress (mean 132.84 Mbit/s).

- **Graph 2**: Per-packet one-way delay in milliseconds for Flow 1. The delay varies significantly throughout the time period shown, with a 95th percentile delay of 53.66 ms.
Run 3: Statistics of TaoVA-100x

Start at: 2018-07-27 03:15:45
End at: 2018-07-27 03:16:15
Local clock offset: -0.14 ms
Remote clock offset: 0.182 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 20.56 Mbit/s
  95th percentile per-packet one-way delay: 53.389 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 20.56 Mbit/s
  95th percentile per-packet one-way delay: 53.389 ms
  Loss rate: 0.59%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2018-07-27 03:37:12
End at: 2018-07-27 03:37:42
Local clock offset: 0.101 ms
Remote clock offset: -1.294 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.27 Mbit/s
95th percentile per-packet one-way delay: 55.135 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 58.27 Mbit/s
95th percentile per-packet one-way delay: 55.135 ms
Loss rate: 0.08%
Run 4: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 58.12 Mbit/s)**
- **Flow 1 egress (mean 58.27 Mbit/s)**
Run 5: Statistics of TaoVA-100x

Start at: 2018-07-27 03:59:02
End at: 2018-07-27 03:59:32
Local clock offset: -0.01 ms
Remote clock offset: -1.246 ms
Run 6: Statistics of TaoVA-100x

Start at: 2018-07-27 04:20:29
End at: 2018-07-27 04:20:59
Local clock offset: -0.013 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-07-27 07:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.42%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Local clock offset: -0.17 ms
Remote clock offset: -1.293 ms

# Below is generated by plot.py at 2018-07-27 07:45:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.36 Mbit/s
95th percentile per-packet one-way delay: 54.650 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 157.36 Mbit/s
95th percentile per-packet one-way delay: 54.650 ms
Loss rate: 0.17%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-07-27 05:04:29
End at: 2018-07-27 05:04:59
Local clock offset: -0.014 ms
Remote clock offset: 0.105 ms
Run 9: Statistics of TaoVA-100x

Start at: 2018-07-27 05:26:10
End at: 2018-07-27 05:26:40
Local clock offset: -0.071 ms
Remote clock offset: -0.064 ms
Run 9: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps)**
- **Time (s)**
- **Flow 1 ingress (mean 41.53 Mbit/s)**
- **Flow 1 egress (mean 41.53 Mbit/s)**

- **Packet delay (ms)**
- **Flow 1 (95th percentile 53.80 ms)**
Run 10: Statistics of TaoVA-100x

Start at: 2018-07-27 05:47:49
End at: 2018-07-27 05:48:19
Local clock offset: 0.195 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-07-27 07:47:49
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 192.18 Mbit/s
  95th percentile per-packet one-way delay: 53.752 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 192.18 Mbit/s
  95th percentile per-packet one-way delay: 53.752 ms
  Loss rate: 0.00%
Run 10: Report of TaoVA-100x — Data Link

![Graph of throughput and delay over time for two data flows](image)

*Flow 1 ingress (mean 192.20 Mbit/s)*
*Flow 1 egress (mean 192.18 Mbit/s)*

*Flow 1 (95th percentile 53.75 ms)*
Run 1: Statistics of TCP Vegas

Start at: 2018-07-27 02:21:03
End at: 2018-07-27 02:21:33
Local clock offset: 0.02 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-07-27 07:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.58 Mbit/s
95th percentile per-packet one-way delay: 54.932 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 130.58 Mbit/s
95th percentile per-packet one-way delay: 54.932 ms
Loss rate: 0.23%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-07-27 02:42:49
End at: 2018-07-27 02:43:19
Local clock offset: -0.068 ms
Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2018-07-27 07:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.53 Mbit/s
95th percentile per-packet one-way delay: 63.824 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 210.53 Mbit/s
95th percentile per-packet one-way delay: 63.824 ms
Loss rate: 0.28%
Run 2: Report of TCP Vegas — Data Link

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Run 3: Statistics of TCP Vegas

Start at: 2018-07-27 03:04:30
End at: 2018-07-27 03:05:00
Local clock offset: 0.145 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-07-27 07:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 54.251 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 54.251 ms
Loss rate: 0.36%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2018-07-27 03:25:59
End at: 2018-07-27 03:26:29
Local clock offset: 0.007 ms
Remote clock offset: -1.23 ms

# Below is generated by plot.py at 2018-07-27 07:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 55.866 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 55.866 ms
Loss rate: 0.31%
Run 4: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 88.02 Mbit/s)**
- **Flow 1 egress (mean 88.06 Mbit/s)**

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

- **Flow 1 (95th percentile 55.87 ms)**
Run 5: Statistics of TCP Vegas

Start at: 2018-07-27 03:47:46
End at: 2018-07-27 03:48:16
Local clock offset: 0.033 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-27 07:47:49
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 141.38 Mbit/s
  95th percentile per-packet one-way delay: 62.805 ms
  Loss rate: 0.24%
-- Flow 1:
  Average throughput: 141.38 Mbit/s
  95th percentile per-packet one-way delay: 62.805 ms
  Loss rate: 0.24%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-07-27 04:09:10
End at: 2018-07-27 04:09:40
Local clock offset: 0.189 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-07-27 07:48:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.24 Mbit/s
95th percentile per-packet one-way delay: 63.011 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 190.24 Mbit/s
95th percentile per-packet one-way delay: 63.011 ms
Loss rate: 0.27%
Run 6: Report of TCP Vegas — Data Link

### Throughput (Mbps)

- Flow 1 ingress (mean 190.08 Mbit/s)
- Flow 1 egress (mean 190.24 Mbit/s)

### Packet Inter-arrival Delay (ms)

- Flow 1 (95th percentile 63.01 ms)
Run 7: Statistics of TCP Vegas

Start at: 2018-07-27 04:30:51
End at: 2018-07-27 04:31:21
Local clock offset: -0.225 ms
Remote clock offset: -1.388 ms

# Below is generated by plot.py at 2018-07-27 07:49:09
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 185.65 Mbit/s
  95th percentile per-packet one-way delay: 62.224 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 185.65 Mbit/s
  95th percentile per-packet one-way delay: 62.224 ms
  Loss rate: 0.35%
Run 7: Report of TCP Vegas — Data Link

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

![Graph 2: Per-packet one way delay (ms)](image2)
Run 8: Statistics of TCP Vegas

Start at: 2018-07-27 04:52:59
End at: 2018-07-27 04:53:29
Local clock offset: -0.014 ms
Remote clock offset: -1.496 ms

# Below is generated by plot.py at 2018-07-27 07:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.51 Mbit/s
95th percentile per-packet one-way delay: 62.801 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 221.51 Mbit/s
95th percentile per-packet one-way delay: 62.801 ms
Loss rate: 0.40%
Run 8: Report of TCP Vegas — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 221.63 Mbps)
  - Flow 1 egress (mean 221.51 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 62.80 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-07-27 05:14:53
End at: 2018-07-27 05:15:23
Local clock offset: 0.012 ms
Remote clock offset: 1.042 ms

# Below is generated by plot.py at 2018-07-27 07:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.18 Mbit/s
95th percentile per-packet one-way delay: 53.070 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 180.18 Mbit/s
95th percentile per-packet one-way delay: 53.070 ms
Loss rate: 0.35%
Run 9: Report of TCP Vegas — Data Link

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

**Throughput (Mbps)**

- **Flow 1 ingress (mean 180.33 Mbps)**
- **Flow 1 egress (mean 180.18 Mbps)**

**Round-trip one-way delay (ms)**

- **Flow 1 (95th percentile 53.97 ms)**
Run 10: Statistics of TCP Vegas

Start at: 2018-07-27 05:36:44
End at: 2018-07-27 05:37:14
Local clock offset: 0.086 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-07-27 07:50:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 54.549 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 54.549 ms
Loss rate: 0.39%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-07-27 02:23:33
End at: 2018-07-27 02:24:03
Local clock offset: -0.338 ms
Remote clock offset: -1.38 ms

# Below is generated by plot.py at 2018-07-27 07:51:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.45 Mbit/s
95th percentile per-packet one-way delay: 152.115 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 234.45 Mbit/s
95th percentile per-packet one-way delay: 152.115 ms
Loss rate: 2.20%
Run 1: Report of Verus — Data Link

![Graph 1: Throughput in Mbps over time](image1)

- Flow 1 ingress (mean 239.02 Mbit/s)
- Flow 1 egress (mean 234.45 Mbit/s)

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

- Flow 1 (95th percentile 152.12 ms)
Run 2: Statistics of Verus

Start at: 2018-07-27 02:45:25
End at: 2018-07-27 02:45:55
Local clock offset: -0.026 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-07-27 07:52:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.04 Mbit/s
95th percentile per-packet one-way delay: 108.762 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 278.04 Mbit/s
95th percentile per-packet one-way delay: 108.762 ms
Loss rate: 1.37%
Run 2: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 281.00 Mbit/s)  Flow 1 egress (mean 278.04 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 108.76 ms)
Run 3: Statistics of Verus

Start at: 2018-07-27 03:06:59
End at: 2018-07-27 03:07:29
Local clock offset: 0.014 ms
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2018-07-27 07:52:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.04 Mbit/s
95th percentile per-packet one-way delay: 78.915 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 267.04 Mbit/s
95th percentile per-packet one-way delay: 78.915 ms
Loss rate: 1.38%
Run 3: Report of Verus — Data Link

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

![Graph 2: Per-packet delay (ms)](image)
Run 4: Statistics of Verus

Start at: 2018-07-27 03:28:29
End at: 2018-07-27 03:28:59
Local clock offset: -0.099 ms
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2018-07-27 07:52:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.94 Mbit/s
95th percentile per-packet one-way delay: 83.331 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 238.94 Mbit/s
95th percentile per-packet one-way delay: 83.331 ms
Loss rate: 0.43%
Run 4: Report of Verus — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Packet one way delay (ms)

Legend:
- Flow 1 ingress (mean 2.39.82 Mbps)
- Flow 1 egress (mean 238.34 Mbit/s)
- Flow 1 (95th percentile 83.33 ms)
Run 5: Statistics of Verus

Start at: 2018-07-27 03:50:17
End at: 2018-07-27 03:50:47
Local clock offset: -0.004 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-07-27 07:54:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.14 Mbit/s
95th percentile per-packet one-way delay: 180.055 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 262.14 Mbit/s
95th percentile per-packet one-way delay: 180.055 ms
Loss rate: 1.50%
Run 5: Report of Verus — Data Link

![Graph of throughput and ping delay over time for Flow 1]
Run 6: Statistics of Verus

Start at: 2018-07-27 04:11:44
End at: 2018-07-27 04:12:14
Local clock offset: -0.023 ms
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2018-07-27 07:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.10 Mbit/s
95th percentile per-packet one-way delay: 86.368 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 287.10 Mbit/s
95th percentile per-packet one-way delay: 86.368 ms
Loss rate: 0.68%
Run 6: Report of Verus — Data Link

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

- **Flow 1 ingress** (mean 288.09 Mbit/s)
- **Flow 1 egress** (mean 287.10 Mbit/s)

![Graph showing packet delay over time.]

- **Flow 1** (95th percentile 86.37 ms)
Run 7: Statistics of Verus

Start at: 2018-07-27 04:33:24
End at: 2018-07-27 04:33:54
Local clock offset: 0.078 ms
Remote clock offset: -1.462 ms

# Below is generated by plot.py at 2018-07-27 07:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.13 Mbit/s
95th percentile per-packet one-way delay: 88.709 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 265.13 Mbit/s
95th percentile per-packet one-way delay: 88.709 ms
Loss rate: 0.56%
Run 7: Report of Verus — Data Link

---

![Graph showing throughput over time with two lines indicating Flow 1 ingress and egress.]  
Flow 1 ingress (mean 265.58 Mbit/s)  
Flow 1 egress (mean 265.13 Mbit/s)

---

![Graph showing per packet delay over time with one line indicating Flow 1 delay.]  
Flow 1 (95th percentile 88.71 ms)
Run 8: Statistics of Verus

End at: 2018-07-27 04:56:04
Local clock offset: 0.165 ms
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-07-27 07:56:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.75 Mbit/s
95th percentile per-packet one-way delay: 87.612 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 284.75 Mbit/s
95th percentile per-packet one-way delay: 87.612 ms
Loss rate: 0.55%
Run 8: Report of Verus — Data Link

![Graph of throughput over time]

![Graph of per packet one way delay over time]

Flow 1 ingress (mean 285.76 Mbit/s)  
Flow 1 egress (mean 284.75 Mbit/s)

Flow 1 (95th percentile 87.61 ms)
Run 9: Statistics of Verus

Start at: 2018-07-27 05:17:26
End at: 2018-07-27 05:17:56
Local clock offset: -0.025 ms
Remote clock offset: 1.317 ms

# Below is generated by plot.py at 2018-07-27 07:56:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 181.566 ms
Loss rate: 0.88%

-- Flow 1:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 181.566 ms
Loss rate: 0.88%
Run 9: Report of Verus — Data Link

[Graph depicting throughput and packet delay over time]

- Flow 1 ingress (mean 245.68 Mbit/s)
- Flow 1 egress (mean 243.52 Mbit/s)

- Flow 1 (95th percentile 181.57 ms)
Run 10: Statistics of Verus

Start at: 2018-07-27 05:39:11
End at: 2018-07-27 05:39:41
Local clock offset: -0.226 ms
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2018-07-27 07:58:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.70 Mbit/s
95th percentile per-packet one-way delay: 90.721 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 271.70 Mbit/s
95th percentile per-packet one-way delay: 90.721 ms
Loss rate: 0.43%
Run 10: Report of Verus — Data Link

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

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

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Run 1: Statistics of PCC-Vivace

Start at: 2018-07-27 02:25:59
End at: 2018-07-27 02:26:29
Local clock offset: -0.185 ms
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2018-07-27 07:59:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.64 Mbit/s
95th percentile per-packet one-way delay: 59.827 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 326.64 Mbit/s
95th percentile per-packet one-way delay: 59.827 ms
Loss rate: 0.61%
Run 1: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 327.50 Mbit/s)  Flow 1 egress (mean 326.64 Mbit/s)

Packet delay (ms)

Time (s)

Flow 1 (95th percentile 59.83 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-27 02:47:54
End at: 2018-07-27 02:48:24
Local clock offset: 0.092 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-07-27 08:00:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.51 Mbit/s
95th percentile per-packet one-way delay: 81.239 ms
Loss rate: 0.43%

-- Flow 1:
Average throughput: 339.51 Mbit/s
95th percentile per-packet one-way delay: 81.239 ms
Loss rate: 0.43%
Run 2: Report of PCC-Vivace — Data Link

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

![Graph 2: One-way round trip delay (ms) vs. Time (s)]
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-27 03:09:26
End at: 2018-07-27 03:09:56
Local clock offset: -0.03 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-07-27 08:01:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.67 Mbit/s
95th percentile per-packet one-way delay: 62.645 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 340.67 Mbit/s
95th percentile per-packet one-way delay: 62.645 ms
Loss rate: 0.37%
Run 3: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 340.70 Mbit/s)
- Flow 1 egress (mean 340.67 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 62.65 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2018-07-27 03:30:55
End at: 2018-07-27 03:31:25
Local clock offset: 0.066 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-07-27 08:03:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.91 Mbit/s
95th percentile per-packet one-way delay: 66.191 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 350.91 Mbit/s
95th percentile per-packet one-way delay: 66.191 ms
Loss rate: 0.39%
Run 4: Report of PCC-Vivace — Data Link

![Graph showing throughput over time with two lines representing different flows.]

Flow 1 ingress (mean 351.03 Mbps)  Flow 1 egress (mean 350.91 Mbps)

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

Flow 1 (95th percentile 66.19 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2018-07-27 03:52:45
End at: 2018-07-27 03:53:15
Local clock offset: -0.031 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2018-07-27 08:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.11 Mbit/s
95th percentile per-packet one-way delay: 83.257 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 356.11 Mbit/s
95th percentile per-packet one-way delay: 83.257 ms
Loss rate: 0.55%
Run 5: Report of PCC-Vivace — Data Link

![Graph of throughput and delay over time for Flow 1 ingress and egress with mean throughput values.]

![Graph of packet one-way delay over time for Flow 1 with 95th percentile delay value.]
Run 6: Statistics of PCC-Vivace

Start at: 2018-07-27 04:14:14
End at: 2018-07-27 04:14:44
Local clock offset: -0.001 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-07-27 08:04:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.60 Mbit/s
95th percentile per-packet one-way delay: 68.544 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 357.60 Mbit/s
95th percentile per-packet one-way delay: 68.544 ms
Loss rate: 0.42%
Run 6: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress** (mean 357.89 Mbit/s)
- **Flow 1 egress** (mean 357.60 Mbit/s)

![Graph 2: Per-packet One-Way Delay](image2)

- Flow 1 (95th percentile 68.54 ms)
Run 7: Statistics of PCC-Vivace

Start at: 2018-07-27 04:35:51
End at: 2018-07-27 04:36:21
Local clock offset: -0.243 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-07-27 08:04:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 353.34 Mbit/s
  95th percentile per-packet one-way delay: 68.022 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 353.34 Mbit/s
  95th percentile per-packet one-way delay: 68.022 ms
  Loss rate: 0.56%
Run 7: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 354.10 Mbit/s)
- Flow 1 egress (mean 353.34 Mbit/s)

- Per packet one way delay (ms)
- Flow 1 (95th percentile 68.02 ms)
Run 8: Statistics of PCC-Vivace

Start at: 2018-07-27 04:58:03
End at: 2018-07-27 04:58:33
Local clock offset: -0.172 ms
Remote clock offset: -1.378 ms

# Below is generated by plot.py at 2018-07-27 08:05:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.45 Mbit/s
95th percentile per-packet one-way delay: 70.715 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 357.45 Mbit/s
95th percentile per-packet one-way delay: 70.715 ms
Loss rate: 0.45%
Run 8: Report of PCC-Vivace — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 357.82 Mbps)
  - Flow 1 egress (mean 357.45 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 70.72 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-07-27 05:19:52
End at: 2018-07-27 05:20:22
Local clock offset: 0.182 ms
Remote clock offset: -1.134 ms

# Below is generated by plot.py at 2018-07-27 08:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.71 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 339.71 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.45%
Run 9: Report of PCC-Vivace — Data Link

**Graph 1:**
- "Flow 1 ingress (mean 340.06 Mbit/s)"
- "Flow 1 egress (mean 339.71 Mbit/s)"

**Graph 2:**
- "Flow 1 (95th percentile 64.80 ms)"

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Run 10: Statistics of PCC-Vivace

Start at: 2018-07-27 05:41:40
End at: 2018-07-27 05:42:10
Local clock offset: -0.035 ms
Remote clock offset: -1.225 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.25 Mbit/s
95th percentile per-packet one-way delay: 90.069 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 336.25 Mbit/s
95th percentile per-packet one-way delay: 90.069 ms
Loss rate: 0.59%
Run 10: Report of PCC-Vivace — Data Link

![Graph of Throughput vs Time]

- Flow 1 ingress (mean 337.11 Mbit/s)
- Flow 1 egress (mean 336.25 Mbit/s)

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

Flow 1 (95th percentile 90.07 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-07-27 02:24:53
End at: 2018-07-27 02:25:23
Local clock offset: -0.06 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.70 Mbit/s
  95th percentile per-packet one-way delay: 50.335 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 1.70 Mbit/s
  95th percentile per-packet one-way delay: 50.335 ms
  Loss rate: 0.49%
Run 1: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - X-axis: Time (s)
  - Y-axis: Throughput (Mbps)
  - Lines represent different traffic flows:
    - Flow 1 ingress (mean 1.70 Mbps)
    - Flow 1 egress (mean 1.70 Mbps)

- **Packet round-trip time (ms):**
  - X-axis: Time (s)
  - Y-axis: Packet round-trip time (ms)
  - Points represent different traffic flows:
    - Flow 1 (95th percentile 50.34 ms)
Run 2: Statistics of WebRTC media

End at: 2018-07-27 02:47:18
Local clock offset: -0.146 ms
Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 53.534 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 53.534 ms
Loss rate: 0.42%
Run 2: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 1.97 Mbit/s)
- Flow 1 egress (mean 1.97 Mbit/s)

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

- Flow 1 (95th percentile 53.53 ms)
Run 3: Statistics of WebRTC media

Start at: 2018-07-27 03:08:21
End at: 2018-07-27 03:08:51
Local clock offset: 0.065 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.722 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.722 ms
Loss rate: 0.42%
Run 3: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for WebRTC media.]
Run 4: Statistics of WebRTC media

Start at: 2018-07-27 03:29:50
End at: 2018-07-27 03:30:20
Local clock offset: 0.172 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.94 Mbit/s
  95th percentile per-packet one-way delay: 54.265 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 1.94 Mbit/s
  95th percentile per-packet one-way delay: 54.265 ms
  Loss rate: 0.37%
Run 4: Report of WebRTC media — Data Link

![Throughput Graph](image)

- **Flow 1 ingress (mean 1.94 Mbit/s)**
- **Flow 1 egress (mean 1.94 Mbit/s)**

![Delay Graph](image)

- **Flow 1 (95th percentile 54.27 ms)**
Run 5: Statistics of WebRTC media

Start at: 2018-07-27 03:51:39
End at: 2018-07-27 03:52:09
Local clock offset: -0.073 ms
Remote clock offset: -1.372 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 51.693 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 51.693 ms
Loss rate: 0.36%
Run 5: Report of WebRTC media — Data Link

![Graph showing throughput over time]

![Graph showing packet delay over time]

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Run 6: Statistics of WebRTC media

Start at: 2018-07-27 04:13:08
Local clock offset: 0.193 ms
Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.95 Mbit/s
  95th percentile per-packet one-way delay: 54.066 ms
  Loss rate: 0.36%
-- Flow 1:
  Average throughput: 1.95 Mbit/s
  95th percentile per-packet one-way delay: 54.066 ms
  Loss rate: 0.36%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-07-27 04:34:45
End at: 2018-07-27 04:35:15
Local clock offset: 0.08 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 54.339 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 54.339 ms
Loss rate: 0.41%
Run 7: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.97 Mbit/s)  Flow 1 egress (mean 1.97 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 54.34 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-07-27 04:56:58
End at: 2018-07-27 04:57:28
Local clock offset: -0.148 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.509 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.509 ms
Loss rate: 0.36%
Run 8: Report of WebRTC media — Data Link

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

- **Flow 1 ingress** (mean 1.93 Mbit/s)
- **Flow 1 egress** (mean 1.93 Mbit/s)

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

- **Flow 1** (95th percentile 50.51 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-07-27 05:18:47
End at: 2018-07-27 05:19:17
Local clock offset: 0.039 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 54.201 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 54.201 ms
Loss rate: 0.42%
Run 9: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.97 Mbit/s)  Flow 1 egress (mean 1.97 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 54.20 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-07-27 05:40:34
End at: 2018-07-27 05:41:04
Local clock offset: 0.269 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2018-07-27 08:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.42%
Run 10: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.97 Mbit/s)  Flow 1 egress (mean 1.97 Mbit/s)

Per packet end-to-end delay (ms)

Time (s)

Flow 1 (95th percentile 53.80 ms)