Pantheon Report

Generated at 2020-04-17 10:14:14 (UTC).
Data path: GCE London on ens4 (local) → GCE Iowa on ens4 (remote).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a5932a94dfaf7d722537b0ec
third_party/fillp @ d6a1459332fcee56963885d7ebe17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38d4df0ecdbf09c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce5b7cf3cf
third_party/muses @ 5ce721187ad823da20955377730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d1b623c091a55feca872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a827333a864b2f1bc8143ebc978f3c8f42
third_party/scream-reproduce @ f09918d1421aa3131bf11ff1964974e1da3b2
M src/ScreamClient
M src/ScreamServer
third_party/verus @ d4b447ea74c6c60a261149af2629562539f9a494
M src/verus.hpp
M tools/plot.py
test from GCE London to GCE Iowa, 5 runs of 30s each per scheme
(mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP BBR</td>
<td>5</td>
<td>654.26</td>
<td>138.64</td>
<td>2.68</td>
</tr>
<tr>
<td>Copa</td>
<td>5</td>
<td>306.44</td>
<td>63.01</td>
<td>0.01</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>5</td>
<td>385.40</td>
<td>110.46</td>
<td>0.05</td>
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<tr>
<td>FillP</td>
<td>5</td>
<td>890.91</td>
<td>91.61</td>
<td>0.21</td>
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<tr>
<td>FillP-Sheep</td>
<td>5</td>
<td>876.20</td>
<td>93.74</td>
<td>0.12</td>
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<tr>
<td>Indigo</td>
<td>5</td>
<td>192.97</td>
<td>48.94</td>
<td>0.00</td>
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<tr>
<td>Indigo-MusesC3</td>
<td>5</td>
<td>553.48</td>
<td>65.74</td>
<td>0.04</td>
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<tr>
<td>Indigo-MusesC5</td>
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<td>592.21</td>
<td>69.53</td>
<td>0.01</td>
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<td>Indigo-MusesD</td>
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<td>512.54</td>
<td>79.07</td>
<td>0.01</td>
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<tr>
<td>Indigo-MusesT</td>
<td>5</td>
<td>616.45</td>
<td>85.68</td>
<td>0.05</td>
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<td>LEDBAT</td>
<td>5</td>
<td>38.80</td>
<td>49.43</td>
<td>0.00</td>
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<td>Muses_DecisionTree</td>
<td>5</td>
<td>539.27</td>
<td>61.64</td>
<td>0.00</td>
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<tr>
<td>Muses_DecisionTreeH0</td>
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<td>99.85</td>
<td>0.08</td>
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<tr>
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<td>401.19</td>
<td>56.71</td>
<td>0.00</td>
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<td>PCC-Allegro</td>
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<td>414.02</td>
<td>166.96</td>
<td>2.80</td>
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<td>PCC-Expr</td>
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<td>311.44</td>
<td>154.80</td>
<td>3.31</td>
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<td>QUIC Cubic</td>
<td>5</td>
<td>60.87</td>
<td>47.70</td>
<td>0.00</td>
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<td>SCReAM</td>
<td>5</td>
<td>0.22</td>
<td>47.65</td>
<td>0.00</td>
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<td>Sprout</td>
<td>5</td>
<td>9.42</td>
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<td>0.00</td>
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<td>TaoVA-100x</td>
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<td>242.28</td>
<td>48.74</td>
<td>0.00</td>
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<tr>
<td>TCP Vegas</td>
<td>5</td>
<td>482.46</td>
<td>67.99</td>
<td>0.01</td>
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<tr>
<td>Verus</td>
<td>5</td>
<td>165.54</td>
<td>111.68</td>
<td>0.07</td>
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<tr>
<td>PCC-Vivace</td>
<td>5</td>
<td>307.88</td>
<td>109.85</td>
<td>0.05</td>
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<td>WebRTC media</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2020-04-17 04:29:22
End at: 2020-04-17 04:29:52
Local clock offset: -0.009 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-04-17 07:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 763.70 Mbit/s
95th percentile per-packet one-way delay: 145.074 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 763.70 Mbit/s
95th percentile per-packet one-way delay: 145.074 ms
Loss rate: 3.33%
Run 1: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 789.99 Mbits/s)
- Flow 1 egress (mean 763.70 Mbits/s)

![Graph 2: Per Packet One-Way Delay vs Time](image)

- Flow 1 (95th percentile 145.07 ms)
Run 2: Statistics of TCP BBR

Start at: 2020-04-17 05:03:56
End at: 2020-04-17 05:04:26
Local clock offset: -0.068 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-04-17 07:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 620.79 Mbit/s
95th percentile per-packet one-way delay: 73.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 620.79 Mbit/s
95th percentile per-packet one-way delay: 73.213 ms
Loss rate: 0.00%
Run 2: Report of TCP BBR — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 620.77 Mbit/s)
- Flow 1 egress (mean 620.79 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 73.21 ms)
Run 3: Statistics of TCP BBR

Start at: 2020-04-17 05:38:50
End at: 2020-04-17 05:39:20
Local clock offset: -0.13 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-17 07:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.30 Mbit/s
95th percentile per-packet one-way delay: 162.339 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 538.30 Mbit/s
95th percentile per-packet one-way delay: 162.339 ms
Loss rate: 2.80%
Run 3: Report of TCP BBR — Data Link

![Throughput and Delay Graphs]

- **Flow 1 ingress (mean 553.80 Mbit/s)**
- **Flow 1 egress (mean 538.30 Mbit/s)**

![Throughput Graph]

![Delay Graph]

- **Flow 1 (95th percentile 162.34 ms)**
Run 4: Statistics of TCP BBR

Start at: 2020-04-17 06:13:36
End at: 2020-04-17 06:14:06
Local clock offset: -0.03 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2020-04-17 07:41:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 777.98 Mbit/s
95th percentile per-packet one-way delay: 142.227 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 777.98 Mbit/s
95th percentile per-packet one-way delay: 142.227 ms
Loss rate: 3.87%
Run 4: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 809.27 Mbps)
- Flow 1 egress (mean 777.98 Mbps)

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

- Flow 1 (95th percentile 142.23 ms)
Run 5: Statistics of TCP BBR

Start at: 2020-04-17 06:48:28
End at: 2020-04-17 06:48:58
Local clock offset: -0.102 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 07:41:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.52 Mbit/s
95th percentile per-packet one-way delay: 170.343 ms
Loss rate: 3.40%
-- Flow 1:
Average throughput: 570.52 Mbit/s
95th percentile per-packet one-way delay: 170.343 ms
Loss rate: 3.40%
Run 5: Report of TCP BBR — Data Link

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

Flow 1 ingress (mean 590.64 Mbit/s)  
Flow 1 egress (mean 570.52 Mbit/s)

![Graph 2: One-way delay (ms) vs Time (s)]

Flow 1 (95th percentile 170.34 ms)
Run 1: Statistics of Copa

Start at: 2020-04-17 04:31:02
End at: 2020-04-17 04:31:32
Local clock offset: 0.004 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2020-04-17 07:41:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.19 Mbit/s
95th percentile per-packet one-way delay: 60.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 316.19 Mbit/s
95th percentile per-packet one-way delay: 60.566 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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

- Flow 1 ingress (mean 316.20 Mbit/s)
- Flow 1 egress (mean 316.19 Mbit/s)

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

- Flow 1 (95th percentile 65.57 ms)
Run 2: Statistics of Copa

Start at: 2020-04-17 05:05:30
End at: 2020-04-17 05:06:00
Local clock offset: -0.06 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2020-04-17 07:41:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.84 Mbit/s
95th percentile per-packet one-way delay: 65.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.84 Mbit/s
95th percentile per-packet one-way delay: 65.607 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 313.83 Mbit/s)  Flow 1 egress (mean 313.84 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 65.61 ms)
Run 3: Statistics of Copa

Start at: 2020-04-17 05:40:21
End at: 2020-04-17 05:40:51
Local clock offset: -0.129 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2020-04-17 07:41:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.60 Mbit/s
95th percentile per-packet one-way delay: 58.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 286.60 Mbit/s
95th percentile per-packet one-way delay: 58.660 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2020-04-17 06:15:16
End at: 2020-04-17 06:15:46
Local clock offset: 0.145 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-17 07:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.01 Mbit/s
95th percentile per-packet one-way delay: 63.027 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 316.01 Mbit/s
95th percentile per-packet one-way delay: 63.027 ms
Loss rate: 0.06%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 316.21 Mbit/s)
- Flow 1 egress (mean 316.01 Mbit/s)

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

- Flow 1 (95th percentile 63.03 ms)
Run 5: Statistics of Copa

Start at: 2020-04-17 06:50:02
End at: 2020-04-17 06:50:32
Local clock offset: 0.271 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 07:50:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.55 Mbit/s
95th percentile per-packet one-way delay: 67.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 299.55 Mbit/s
95th percentile per-packet one-way delay: 67.200 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2020-04-17 04:21:47
End at: 2020-04-17 04:22:17
Local clock offset: -0.019 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2020-04-17 07:50:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.78 Mbit/s
95th percentile per-packet one-way delay: 126.208 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 557.78 Mbit/s
95th percentile per-packet one-way delay: 126.208 ms
Loss rate: 0.01%
Run 1: Report of TCP Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 557.87 Mbit/s)  Flow 1 egress (mean 557.78 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 126.21 ms)
Run 2: Statistics of TCP Cubic

Start at: 2020-04-17 04:56:52
End at: 2020-04-17 04:57:22
Local clock offset: 0.316 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-04-17 07:50:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.98 Mbit/s
95th percentile per-packet one-way delay: 46.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.98 Mbit/s
95th percentile per-packet one-way delay: 46.375 ms
Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

![Graph of throughput vs time]

- Flow 1 ingress (mean 81.98 Mbit/s)
- Flow 1 egress (mean 81.98 Mbit/s)

![Graph of per-packet one-way delay vs time]

- Flow 1 (95th percentile 46.38 ms)
Run 3: Statistics of TCP Cubic

Start at: 2020-04-17 05:31:31
End at: 2020-04-17 05:32:01
Local clock offset: -0.104 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2020-04-17 07:50:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.98 Mbit/s
95th percentile per-packet one-way delay: 116.871 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 284.98 Mbit/s
95th percentile per-packet one-way delay: 116.871 ms
Loss rate: 0.05%
Run 3: Report of TCP Cubic — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 ingress (mean 285.10 Mbit/s)**
- **Flow 1 egress (mean 284.98 Mbit/s)**

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

- **Flow 1 (95th percentile 116.87 ms)**

30
Run 4: Statistics of TCP Cubic

Start at: 2020-04-17 06:06:11
End at: 2020-04-17 06:06:41
Local clock offset: -0.06 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-04-17 07:51:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.56 Mbit/s
95th percentile per-packet one-way delay: 95.913 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 543.56 Mbit/s
95th percentile per-packet one-way delay: 95.913 ms
Loss rate: 0.12%
Run 4: Report of TCP Cubic — Data Link

![Graph of throughput (Mbps) vs. time (s)](image1)

- Flow 1 ingress (mean 544.22 Mbit/s)
- Flow 1 egress (mean 543.56 Mbit/s)

![Graph of per-packet end-to-end delay (ms) vs. time (s)](image2)

- Flow 1 (95th percentile 95.91 ms)
Run 5: Statistics of TCP Cubic

Start at: 2020-04-17 06:41:26
End at: 2020-04-17 06:41:56
Local clock offset: -0.114 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-04-17 07:51:09
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 458.69 Mbit/s
  95th percentile per-packet one-way delay: 166.922 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 458.69 Mbit/s
  95th percentile per-packet one-way delay: 166.922 ms
  Loss rate: 0.08%
Run 5: Report of TCP Cubic — Data Link

![Graph showing throughput over time](image1)

- Flow 1 ingress (mean 459.07 Mbit/s)
- Flow 1 egress (mean 458.69 Mbit/s)

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

- Flow 1 (95th percentile 166.92 ms)
Run 1: Statistics of FillP

Start at: 2020-04-17 04:23:22
End at: 2020-04-17 04:23:52
Local clock offset: 0.017 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2020-04-17 08:08:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 909.92 Mbit/s
95th percentile per-packet one-way delay: 103.192 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 909.92 Mbit/s
95th percentile per-packet one-way delay: 103.192 ms
Loss rate: 0.33%
Run 1: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 912.94 Mbit/s)**
- **Flow 1 egress (mean 909.92 Mbit/s)**

![Graph 2: Per-Flow one-way delay vs Time](Image)

- **Flow 1 (95th percentile 103.19 ms)**
Run 2: Statistics of FillP

Start at: 2020-04-17 04:58:04
End at: 2020-04-17 04:58:34
Local clock offset: -0.055 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2020-04-17 08:08:28
# Datalink statistics
   -- Total of 1 flow:
      Average throughput: 780.03 Mbit/s
      95th percentile per-packet one-way delay: 86.549 ms
      Loss rate: 0.02%
   -- Flow 1:
      Average throughput: 780.03 Mbit/s
      95th percentile per-packet one-way delay: 86.549 ms
      Loss rate: 0.02%
Run 2: Report of FillP — Data Link

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Below are two graphs:

1. **Throughput (Mbps)**
   - **Flow 1 ingress** (mean 780.23 Mbps)
   - **Flow 1 egress** (mean 780.03 Mbps)

2. **Per-packet one-way delay (ms)**
   - **Flow 1** (95th percentile 86.55 ms)

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38
Run 3: Statistics of FillP

Start at: 2020-04-17 05:32:52
End at: 2020-04-17 05:33:22
Local clock offset: 0.233 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-04-17 08:16:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 988.29 Mbit/s
95th percentile per-packet one-way delay: 84.649 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 988.29 Mbit/s
95th percentile per-packet one-way delay: 84.649 ms
Loss rate: 0.06%
Run 3: Report of FillP — Data Link

![Throughput Graph]

- Flow Ingress (mean 987.39 Mb/s)
- Flow Egress (mean 988.29 Mb/s)

![Delay Graph]

- Flow 1 (95th percentile 84.65 ms)
Run 4: Statistics of FillP

Start at: 2020-04-17 06:07:45
End at: 2020-04-17 06:08:15
Local clock offset: -0.074 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2020-04-17 08:21:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 982.94 Mbit/s
95th percentile per-packet one-way delay: 85.039 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 982.94 Mbit/s
95th percentile per-packet one-way delay: 85.039 ms
Loss rate: 0.13%
Run 4: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 984.21 Mbps)**
- **Flow 1 egress (mean 982.94 Mbps)**

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

- **Flow 1 (95th percentile 85.04 ms)**
Run 5: Statistics of FillP

Start at: 2020-04-17 06:42:56
End at: 2020-04-17 06:43:26
Local clock offset: -0.129 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2020-04-17 08:21:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 793.35 Mbit/s
95th percentile per-packet one-way delay: 98.641 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 793.35 Mbit/s
95th percentile per-packet one-way delay: 98.641 ms
Loss rate: 0.50%
Run 5: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 797.61 Mbit/s)**
- **Flow 1 egress (mean 793.35 Mbit/s)**

- **Flow 1 (95th percentile 98.64 ms)**
Run 1: Statistics of FillP-Sheep

Start at: 2020-04-17 04:17:19
End at: 2020-04-17 04:17:50
Local clock offset: -0.044 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-04-17 08:21:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 836.10 Mbit/s
95th percentile per-packet one-way delay: 93.233 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 836.10 Mbit/s
95th percentile per-packet one-way delay: 93.233 ms
Loss rate: 0.10%
Run 1: Report of FillP-Sheep — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 836.97 Mbps)**
- **Flow 1 egress (mean 836.10 Mbps)**

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

- **Flow 1 (95th percentile 93.23 ms)**

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46
Run 2: Statistics of FillP-Sheep

Start at: 2020-04-17 04:52:02
End at: 2020-04-17 04:52:32
Local clock offset: 0.346 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-04-17 08:21:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 939.73 Mbit/s
95th percentile per-packet one-way delay: 87.100 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 939.73 Mbit/s
95th percentile per-packet one-way delay: 87.100 ms
Loss rate: 0.10%
Run 2: Report of FillP-Sheep — Data Link

![Graph of throughput over time]

- Flow 1 ingress (mean 940.66 Mbit/s)
- Flow 1 egress (mean 939.73 Mbit/s)

![Graph of packet delay over time]

- Flow 1 (95th percentile 87.10 ms)
Run 3: Statistics of FillP-Sheep

Start at: 2020-04-17 05:26:44
End at: 2020-04-17 05:27:14
Local clock offset: -0.104 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2020-04-17 08:21:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 925.88 Mbit/s
95th percentile per-packet one-way delay: 94.638 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 925.88 Mbit/s
95th percentile per-packet one-way delay: 94.638 ms
Loss rate: 0.14%
Run 3: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 925.58 Mbit/s)**
- **Flow 1 egress (mean 925.88 Mbit/s)**

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

- **Flow 1 (95th percentile 94.64 ms)**
Run 4: Statistics of FillP-Sheep

Start at: 2020-04-17 06:01:27
End at: 2020-04-17 06:01:57
Local clock offset: -0.063 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2020-04-17 08:31:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 814.80 Mbit/s
95th percentile per-packet one-way delay: 93.726 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 814.80 Mbit/s
95th percentile per-packet one-way delay: 93.726 ms
Loss rate: 0.06%
Run 4: Report of FillP-Sheep — Data Link

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

Start at: 2020-04-17 06:36:39
End at: 2020-04-17 06:37:09
Local clock offset: -0.084 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 864.47 Mbit/s
95th percentile per-packet one-way delay: 99.994 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 864.47 Mbit/s
95th percentile per-packet one-way delay: 99.994 ms
Loss rate: 0.22%
Run 5: Report of FillP-Sheep — Data Link

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

- Blue dashed line: Flow 1 ingress (mean 866.46 Mbit/s)
- Blue solid line: Flow 1 egress (mean 864.47 Mbit/s)

![Graph 2: Per Packet One-Way Delay vs Time](image2)

- Blue line: Flow 1 (95th percentile 99.99 ms)
Run 1: Statistics of Indigo

Start at: 2020-04-17 04:46:37
End at: 2020-04-17 04:47:07
Local clock offset: -0.048 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
 Average throughput: 106.13 Mbit/s
 95th percentile per-packet one-way delay: 48.110 ms
 Loss rate: 0.00%
-- Flow 1:
 Average throughput: 106.13 Mbit/s
 95th percentile per-packet one-way delay: 48.110 ms
 Loss rate: 0.00%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2020-04-17 05:21:08
End at: 2020-04-17 05:21:38
Local clock offset: -0.112 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.69 Mbit/s
95th percentile per-packet one-way delay: 48.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.69 Mbit/s
95th percentile per-packet one-way delay: 48.559 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2020-04-17 05:55:52
End at: 2020-04-17 05:56:22
Local clock offset: -0.466 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
   Average throughput: 204.26 Mbit/s
   95th percentile per-packet one-way delay: 49.780 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 204.26 Mbit/s
   95th percentile per-packet one-way delay: 49.780 ms
   Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2020-04-17 06:31:04
End at: 2020-04-17 06:31:35
Local clock offset: -0.467 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.59 Mbit/s
95th percentile per-packet one-way delay: 48.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.59 Mbit/s
95th percentile per-packet one-way delay: 48.890 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

![Graph showing throughput and packet delay over time for Flow 1 with ingress and egress rates of 220.60 Mbit/s and 220.59 Mbit/s respectively.]

![Graph showing packet delay distribution for Flow 1 with a 95th percentile delay of 48.89 ms.]

62
Run 5: Statistics of Indigo

Start at: 2020-04-17 07:05:37
End at: 2020-04-17 07:06:07
Local clock offset: -0.155 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.16 Mbit/s
95th percentile per-packet one-way delay: 49.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.16 Mbit/s
95th percentile per-packet one-way delay: 49.358 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

![Throughput Graph]

![Per-packet one-way delay Graph]

Flow 1 ingress (mean 218.16 Mbit/s)  Flow 1 egress (mean 218.16 Mbit/s)

Flow 1 (95th percentile 49.36 ms)
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-17 04:32:38
End at: 2020-04-17 04:33:08
Local clock offset: -0.009 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.25 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 560.25 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC3 — Data Link
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-17 05:07:06
End at: 2020-04-17 05:07:36
Local clock offset: -0.1 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-04-17 08:36:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 569.44 Mbit/s
95th percentile per-packet one-way delay: 55.304 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 569.44 Mbit/s
95th percentile per-packet one-way delay: 55.304 ms
Loss rate: 0.03%
Run 2: Report of Indigo-MusesC3 — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingresses and egresses with mean rates.]

- Flow 1 ingress (mean 569.58 Mbps)
- Flow 1 egress (mean 569.44 Mbps)

![Graph showing packet delay distribution for Flow 1 with 95th percentile at 55.30 ms.]
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-17 05:41:54
End at: 2020-04-17 05:42:24
Local clock offset: -0.083 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2020-04-17 08:39:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.25 Mbit/s
95th percentile per-packet one-way delay: 78.448 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 529.25 Mbit/s
95th percentile per-packet one-way delay: 78.448 ms
Loss rate: 0.05%
Run 3: Report of Indigo-MusesC3 — Data Link

![Graph showing network throughput](image1)

- **Flow 1 ingress (mean 529.48 Mbit/s)**
- **Flow 1 egress (mean 529.23 Mbit/s)**

![Graph showing packet delay](image2)

- **Flow 1 (95th percentile 78.45 ms)**
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-04-17 06:16:53
End at: 2020-04-17 06:17:23
Local clock offset: -0.012 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-04-17 08:42:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 575.47 Mbit/s
95th percentile per-packet one-way delay: 62.029 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 575.47 Mbit/s
95th percentile per-packet one-way delay: 62.029 ms
Loss rate: 0.06%
Run 4: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1 ingress (mean 575.81 Mbps)**
- **Flow 1 egress (mean 575.47 Mbps)**

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

- **Flow 1 (95th percentile 62.03 ms)**

72
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-04-17 06:51:38
End at: 2020-04-17 06:52:08
Local clock offset: -0.083 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 08:44:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 532.98 Mbit/s
95th percentile per-packet one-way delay: 69.149 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 532.98 Mbit/s
95th percentile per-packet one-way delay: 69.149 ms
Loss rate: 0.05%
Run 5: Report of Indigo-MusesC3 — Data Link

The first graph shows the throughput over time, with two distinct lines representing different flow rates. The second graph displays the per-packet one-way delay, with a specific flow marked for its 95th percentile delay time.
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-17 04:20:12
End at: 2020-04-17 04:20:42
Local clock offset: -0.01 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 08:47:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.14 Mbit/s
95th percentile per-packet one-way delay: 60.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 605.14 Mbit/s
95th percentile per-packet one-way delay: 60.140 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-17 04:55:17
End at: 2020-04-17 04:55:47
Local clock offset: 0.321 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2020-04-17 08:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.16 Mbit/s
95th percentile per-packet one-way delay: 55.993 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 612.16 Mbit/s
95th percentile per-packet one-way delay: 55.993 ms
Loss rate: 0.01%
Run 2: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress (mean 612.25 Mbit/s)**
- **Flow 1 egress (mean 612.16 Mbit/s)**
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-17 05:29:57
End at: 2020-04-17 05:30:27
Local clock offset: -0.119 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2020-04-17 08:50:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.92 Mbit/s
95th percentile per-packet one-way delay: 79.453 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 588.92 Mbit/s
95th percentile per-packet one-way delay: 79.453 ms
Loss rate: 0.04%
Run 3: Report of Indigo-MusesC5 — Data Link

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

![Graph 2: Per-packet one-way delay vs. Time](image2)
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-04-17 06:04:36  
End at: 2020-04-17 06:05:06  
Local clock offset: -0.089 ms  
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2020-04-17 08:52:16  
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.51 Mbit/s
95th percentile per-packet one-way delay: 62.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 603.51 Mbit/s
95th percentile per-packet one-way delay: 62.657 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC5 — Data Link
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-04-17 06:39:53
End at: 2020-04-17 06:40:23
Local clock offset: -0.064 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-04-17 08:52:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 551.30 Mbit/s
95th percentile per-packet one-way delay: 89.404 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 551.30 Mbit/s
95th percentile per-packet one-way delay: 89.404 ms
Loss rate: 0.01%
Run 5: Report of Indigo-MusesC5 — Data Link

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

- **Throughput Graph**: Shows the throughput over time for Flow 1 ingress (mean 551.40 Mbit/s) and Flow 1 egress (mean 551.30 Mbit/s).
- **Delay Graph**: Displays the packet delay (ms) over time for Flow 1 (95th percentile 89.40 ms).
Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-17 04:19:00
End at: 2020-04-17 04:19:30
Local clock offset: -0.419 ms
Remote clock offset: -0.027 ms
Run 1: Report of Indigo-MusesD — Data Link

[Graphs showing throughput and packet delay over time]
Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-17 04:53:47
End at: 2020-04-17 04:54:17
Local clock offset: -0.072 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-04-17 08:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.32 Mbit/s
95th percentile per-packet one-way delay: 72.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 500.32 Mbit/s
95th percentile per-packet one-way delay: 72.101 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link
Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-17 05:28:27
End at: 2020-04-17 05:28:57
Local clock offset: -0.096 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-04-17 08:55:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.16 Mbit/s
95th percentile per-packet one-way delay: 74.234 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 502.16 Mbit/s
95th percentile per-packet one-way delay: 74.234 ms
Loss rate: 0.01%
Run 3: Report of Indigo-MusesD — Data Link
Run 4: Statistics of Indigo-MusesD

Start at: 2020-04-17 06:03:05
End at: 2020-04-17 06:03:35
Local clock offset: -0.112 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2020-04-17 08:58:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.47 Mbit/s
95th percentile per-packet one-way delay: 77.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 522.47 Mbit/s
95th percentile per-packet one-way delay: 77.569 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesD — Data Link

[Graph showing throughput over time]

[Graph showing per-packet one-way delay over time]
Run 5: Statistics of Indigo-MusesD

Start at: 2020-04-17 06:38:22
End at: 2020-04-17 06:38:52
Local clock offset: -0.128 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-04-17 09:00:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.21 Mbit/s
95th percentile per-packet one-way delay: 92.391 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 525.21 Mbit/s
95th percentile per-packet one-way delay: 92.391 ms
Loss rate: 0.02%
Run 5: Report of Indigo-MusesD — Data Link

![Graph of Throughput vs. Time](image1)

- **Flow 1 ingress (mean 525.28 Mbit/s)**
- **Flow 1 egress (mean 525.21 Mbit/s)**

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

- **Flow 1 (95th percentile 92.33 ms)**
Run 1: Statistics of Indigo-MusesT

Start at: 2020-04-17 04:40:44
End at: 2020-04-17 04:41:14
Local clock offset: -0.001 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2020-04-17 09:03:03
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 587.52 Mbit/s
  95th percentile per-packet one-way delay: 105.456 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 587.52 Mbit/s
  95th percentile per-packet one-way delay: 105.456 ms
  Loss rate: 0.00%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 587.51 Mbit/s)
- Flow 1 egress (mean 587.52 Mbit/s)

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

- Flow 1 (95th percentile 105.46 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-17 05:15:16
End at: 2020-04-17 05:15:46
Local clock offset: -0.039 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 09:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 629.84 Mbit/s
95th percentile per-packet one-way delay: 72.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 629.84 Mbit/s
95th percentile per-packet one-way delay: 72.399 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 629.85 Mbit/s)
- Flow 1 egress (mean 629.84 Mbit/s)

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

- Flow 1 (95th percentile 72.40 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-17 05:49:52
End at: 2020-04-17 05:50:22
Local clock offset: -0.103 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2020-04-17 09:07:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 648.24 Mbit/s
95th percentile per-packet one-way delay: 70.192 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 648.24 Mbit/s
95th percentile per-packet one-way delay: 70.192 ms
Loss rate: 0.02%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2020-04-17 06:25:09
End at: 2020-04-17 06:25:39
Local clock offset: -0.098 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 09:07:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.50 Mbit/s
95th percentile per-packet one-way delay: 108.363 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 593.50 Mbit/s
95th percentile per-packet one-way delay: 108.363 ms
Loss rate: 0.11%
Run 4: Report of Indigo-MusesT — Data Link

![Graph 1: Throughput (kbps)]

- Flow 1 ingress (mean 594.12 Mbit/s)
- Flow 1 egress (mean 593.50 Mbit/s)

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

- Flow 1 (95th percentile 108.36 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2020-04-17 06:59:46
End at: 2020-04-17 07:00:16
Local clock offset: 0.206 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-04-17 09:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.17 Mbit/s
95th percentile per-packet one-way delay: 72.009 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 623.17 Mbit/s
95th percentile per-packet one-way delay: 72.009 ms
Loss rate: 0.11%
Run 5: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 23.90 Mbit/s)
- Flow 1 egress (mean 23.37 Mbit/s)

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

- Flow 1 (95th percentile 72.01 ms)
Run 1: Statistics of LEDBAT

Start at: 2020-04-17 04:49:17
End at: 2020-04-17 04:49:47
Local clock offset: -0.044 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-04-17 09:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 49.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 49.494 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Chart 1](image1)

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

Start at: 2020-04-17 05:24:00
End at: 2020-04-17 05:24:30
Local clock offset: -0.488 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-17 09:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 49.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 49.787 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

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

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

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

- **Flow 1 (95th percentile 49.79 ms)**
Run 3: Statistics of LEDBAT

Start at: 2020-04-17 05:58:42
End at: 2020-04-17 05:59:12
Local clock offset: -0.083 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-04-17 09:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 48.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 48.794 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with mean 38.62 Mbps.]

![Graph showing packet error delay over time for Flow 1 with 95th percentile 48.79 ms.]

110
Run 4: Statistics of LEDBAT

Start at: 2020-04-17 06:33:55
End at: 2020-04-17 06:34:25
Local clock offset: -0.1 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 09:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 49.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.07 Mbit/s
95th percentile per-packet one-way delay: 49.614 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

![Graph of Throughput vs Time]

*Flow 1 ingress (mean 41.07 Mbit/s)  Flow 1 egress (mean 41.07 Mbit/s)*

![Graph of Per-packet round-trip delay vs Time]

*Flow 1 (95th percentile 49.61 ms)*
Run 5: Statistics of LEDBAT

Start at: 2020-04-17 07:08:12
End at: 2020-04-17 07:08:42
Local clock offset: -0.1 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-04-17 09:10:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 49.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 49.480 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 04:25:05  
End at: 2020-04-17 04:25:35  
Local clock offset: -0.031 ms  
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2020-04-17 09:16:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 594.07 Mbit/s  
95th percentile per-packet one-way delay: 61.024 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 594.07 Mbit/s  
95th percentile per-packet one-way delay: 61.024 ms  
Loss rate: 0.00%
Run 1: Report of Muses

DecisionTree — Data Link

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

- Flow 1 ingress (mean 594.05 Mbit/s)
- Flow 1 egress (mean 594.07 Mbit/s)

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

- Flow 1 (95th percentile 61.02 ms)
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 04:59:41
End at: 2020-04-17 05:00:11
Local clock offset: -0.051 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-04-17 09:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.41 Mbit/s
95th percentile per-packet one-way delay: 75.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 489.41 Mbit/s
95th percentile per-packet one-way delay: 75.993 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTree — Data Link
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 05:34:38
End at: 2020-04-17 05:35:08
Local clock offset: -0.132 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2020-04-17 09:18:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 612.75 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 612.75 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link

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

*Flow 1 ingress (mean 612.73 Mbit/s), Flow 1 egress (mean 612.75 Mbit/s)*

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

*Flow 1 (95th percentile 57.54 ms)*
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 06:09:32
End at: 2020-04-17 06:10:02
Local clock offset: 0.333 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-04-17 09:18:21
# Datalink statistics
  -- Total of 1 flow:
    Average throughput: 420.58 Mbit/s
    95th percentile per-packet one-way delay: 51.175 ms
    Loss rate: 0.00%
  -- Flow 1:
    Average throughput: 420.58 Mbit/s
    95th percentile per-packet one-way delay: 51.175 ms
    Loss rate: 0.00%
Run 4: Report of Muses_DecisionTree — Data Link

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

- Flow 1 ingress (mean 420.58 Mbit/s)
- Flow 1 egress (mean 420.58 Mbit/s)
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 06:44:36
End at: 2020-04-17 06:45:06
Local clock offset: -0.13 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 09:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.52 Mbit/s
95th percentile per-packet one-way delay: 62.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.52 Mbit/s
95th percentile per-packet one-way delay: 62.448 ms
Loss rate: 0.00%
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 04:47:53
End at: 2020-04-17 04:48:24
Local clock offset: -0.077 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-04-17 09:21:51
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 327.04 Mbit/s
  95th percentile per-packet one-way delay: 122.646 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 327.04 Mbit/s
  95th percentile per-packet one-way delay: 122.646 ms
  Loss rate: 0.25%
Run 1: Report of Muses_DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 05:22:35
End at: 2020-04-17 05:23:05
Local clock offset: -0.121 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2020-04-17 09:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.01 Mbit/s
95th percentile per-packet one-way delay: 99.667 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 361.01 Mbit/s
95th percentile per-packet one-way delay: 99.667 ms
Loss rate: 0.04%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 05:57:17
End at: 2020-04-17 05:57:47
Local clock offset: -0.07 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-04-17 09:21:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.08 Mbit/s
95th percentile per-packet one-way delay: 105.482 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 356.08 Mbit/s
95th percentile per-packet one-way delay: 105.482 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTreeH0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 06:32:32
End at: 2020-04-17 06:33:02
Local clock offset: -0.102 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-04-17 09:22:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.58 Mbit/s
95th percentile per-packet one-way delay: 124.348 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 316.58 Mbit/s
95th percentile per-packet one-way delay: 124.348 ms
Loss rate: 0.13%
Run 4: Report of Muses DecisionTreeH0 — Data Link

![Throughput](chart)

- Flow 1 ingress (mean 316.98 Mbit/s)
- Flow 1 egress (mean 316.58 Mbit/s)

![Packet Delay](chart)

- Flow 1 (95th percentile 124.35 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 07:07:04
End at: 2020-04-17 07:07:34
Local clock offset: -0.48 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-04-17 09:22:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.110 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

![Graph of throughput over time with labels for flow ingress and egress.]
Run 1: Statistics of Muses\_DecisionTreeRO

Start at: 2020-04-17 04:27:49
End at: 2020-04-17 04:28:19
Local clock offset: 0.0 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2020-04-17 09:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.38 Mbit/s
95th percentile per-packet one-way delay: 72.539 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 539.38 Mbit/s
95th percentile per-packet one-way delay: 72.539 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeR0 — Data Link

---

[Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 539.36 Mbps)
- Flow 1 egress (mean 539.38 Mbps)

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

- Flow 1 (95th percentile 72.54 ms)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 05:02:20  
End at: 2020-04-17 05:02:50  
Local clock offset: -0.067 ms  
Remote clock offset: -0.035 ms  

# Below is generated by plot.py at 2020-04-17 09:31:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 615.67 Mbit/s  
95th percentile per-packet one-way delay: 61.234 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 615.67 Mbit/s  
95th percentile per-packet one-way delay: 61.234 ms  
Loss rate: 0.01%
Run 2: Report of Muses.DecisionTreeR0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 05:37:23
End at: 2020-04-17 05:37:53
Local clock offset: -0.17 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2020-04-17 09:31:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.08 Mbit/s
95th percentile per-packet one-way delay: 50.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 413.08 Mbit/s
95th percentile per-packet one-way delay: 50.997 ms
Loss rate: 0.00%
Run 3: Report of Muses.DecisionTreeR0 — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress.]
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 06:12:08
End at: 2020-04-17 06:12:38
Local clock offset: -0.052 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2020-04-17 09:31:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.60 Mbit/s
95th percentile per-packet one-way delay: 51.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 437.60 Mbit/s
95th percentile per-packet one-way delay: 51.085 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeRO

Start at: 2020-04-17 06:47:20
End at: 2020-04-17 06:47:50
Local clock offset: -0.112 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2020-04-17 09:31:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.694 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.694 ms
Loss rate: 0.00%
Run 5: Report of Muses

DecisionTreeR0 — Data Link

Throughput (Mbps)

Time (s)

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

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 47.69 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2020-04-17 04:36:26
End at: 2020-04-17 04:36:56
Local clock offset: -0.006 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2020-04-17 09:37:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 393.86 Mbit/s
95th percentile per-packet one-way delay: 172.595 ms
Loss rate: 4.33%
-- Flow 1:
Average throughput: 393.86 Mbit/s
95th percentile per-packet one-way delay: 172.595 ms
Loss rate: 4.33%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2020-04-17 05:10:53
End at: 2020-04-17 05:11:23
Local clock offset: -0.03 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-04-17 09:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 453.78 Mbit/s
95th percentile per-packet one-way delay: 169.078 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 453.78 Mbit/s
95th percentile per-packet one-way delay: 169.078 ms
Loss rate: 2.48%
Run 2: Report of PCC-Allegro — Data Link

![Graph 1: Throughput vs Time](#)  
- Flow 1 ingress (mean 465.30 Mbit/s)
- Flow 1 egress (mean 453.78 Mbit/s)

![Graph 2: Per-packet one-way delay vs Time](#)
- Flow 1 (95th percentile 169.00 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-04-17 05:45:40
End at: 2020-04-17 05:46:10
Local clock offset: -0.119 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-04-17 09:43:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.28 Mbit/s
95th percentile per-packet one-way delay: 160.008 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 338.28 Mbit/s
95th percentile per-packet one-way delay: 160.008 ms
Loss rate: 1.22%
Run 3: Report of PCC-Allegro — Data Link

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

Flow 1 ingress (mean 342.46 Mbps) vs Flow 1 egress (mean 338.28 Mbps)

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

Flow 1 (95th percentile 160.01 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2020-04-17 06:20:42
End at: 2020-04-17 06:21:12
Local clock offset: -0.062 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-04-17 09:47:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.18 Mbit/s
95th percentile per-packet one-way delay: 176.795 ms
Loss rate: 5.64%
-- Flow 1:
Average throughput: 480.18 Mbit/s
95th percentile per-packet one-way delay: 176.795 ms
Loss rate: 5.64%
Run 4: Report of PCC-Allegro — Data Link

![Graph showing throughput and delay over time.](image)
Run 5: Statistics of PCC-Allegro

Start at: 2020-04-17 06:55:25
End at: 2020-04-17 06:55:55
Local clock offset: -0.061 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2020-04-17 09:47:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.02 Mbit/s
95th percentile per-packet one-way delay: 156.336 ms
Loss rate: 0.32%

-- Flow 1:
Average throughput: 404.02 Mbit/s
95th percentile per-packet one-way delay: 156.336 ms
Loss rate: 0.32%
Run 5: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress** (mean 405.30 Mbit/s)
- **Flow 1 egress** (mean 404.02 Mbit/s)

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

- **Flow 1** (95th percentile 156.34 ms)
Run 1: Statistics of PCC-Expr

Start at: 2020-04-17 04:39:09
End at: 2020-04-17 04:39:39
Local clock offset: -0.001 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2020-04-17 09:47:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.55 Mbit/s
95th percentile per-packet one-way delay: 127.523 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 313.55 Mbit/s
95th percentile per-packet one-way delay: 127.523 ms
Loss rate: 0.34%
Run 1: Report of PCC-Expr — Data Link

[Graph showing throughput and packet delay over time]
Run 2: Statistics of PCC-Expr

Start at: 2020-04-17 05:13:41
End at: 2020-04-17 05:14:11
Local clock offset: -0.082 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-04-17 09:47:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.35 Mbit/s
95th percentile per-packet one-way delay: 169.509 ms
Loss rate: 4.45%
-- Flow 1:
Average throughput: 316.35 Mbit/s
95th percentile per-packet one-way delay: 169.509 ms
Loss rate: 4.45%
Run 2: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

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

Legend:
- Dashed line: Flow 1 ingress (mean 331.22 Mbps)
- Solid line: Flow 1 egress (mean 316.35 Mbps)

Flow 1 (95th percentile 169.53 ms)
Run 3: Statistics of PCC-Expr

Start at: 2020-04-17 05:48:21
End at: 2020-04-17 05:48:51
Local clock offset: -0.104 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2020-04-17 09:47:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.06 Mbit/s
95th percentile per-packet one-way delay: 169.118 ms
Loss rate: 5.19%
-- Flow 1:
Average throughput: 275.06 Mbit/s
95th percentile per-packet one-way delay: 169.118 ms
Loss rate: 5.19%
Run 3: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 290.11 Mbit/s)
- Flow 1 egress (mean 275.06 Mbit/s)

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

- Flow 1 (95th percentile 169.12 ms)
Run 4: Statistics of PCC-Expr

Start at: 2020-04-17 06:23:32
End at: 2020-04-17 06:24:02
Local clock offset: -0.106 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2020-04-17 09:53:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.37 Mbit/s
95th percentile per-packet one-way delay: 148.709 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 336.37 Mbit/s
95th percentile per-packet one-way delay: 148.709 ms
Loss rate: 1.72%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2020-04-17 06:58:09
End at: 2020-04-17 06:58:39
Local clock offset: -0.486 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.87 Mbit/s
95th percentile per-packet one-way delay: 159.147 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 315.87 Mbit/s
95th percentile per-packet one-way delay: 159.147 ms
Loss rate: 4.87%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 332.04 Mbit/s)
- Flow 1 egress (mean 315.87 Mbit/s)

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

- Flow 1 (95th percentile 159.15 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2020-04-17 04:37:59
End at: 2020-04-17 04:38:29
Local clock offset: 0.023 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 46.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 46.590 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2020-04-17 05:12:29
End at: 2020-04-17 05:12:59
Local clock offset: -0.062 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 47.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.40 Mbit/s
95th percentile per-packet one-way delay: 47.724 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2020-04-17 05:47:09
End at: 2020-04-17 05:47:39
Local clock offset: -0.108 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 46.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 46.744 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2020-04-17 06:22:21
End at: 2020-04-17 06:22:51
Local clock offset: -0.073 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.27 Mbit/s
95th percentile per-packet one-way delay: 46.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.27 Mbit/s
95th percentile per-packet one-way delay: 46.960 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 69.26 Mbit/s)**
- **Flow 1 egress (mean 69.27 Mbit/s)**

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

- **Flow 1 (95th percentile 46.96 ms)**
Run 5: Statistics of QUIC Cubic

Start at: 2020-04-17 06:56:59
End at: 2020-04-17 06:57:29
Local clock offset: -0.11 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2020-04-17 04:35:18
End at: 2020-04-17 04:35:48
Local clock offset: -0.027 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.887 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.887 ms
  Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

- **Throughput**: Mean 0.22 Mbit/s
- **Packet Delay**: Mean 47.89 ms
Run 2: Statistics of SCReAM

Start at: 2020-04-17 05:09:46
End at: 2020-04-17 05:10:16
Local clock offset: -0.07 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.529 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph 1](image1)

- Blue line: Flow 1 ingress (mean 0.22 Mbit/s)
- Red line: Flow 1 egress (mean 0.22 Mbit/s)

![Graph 2](image2)

- Blue line: Per packet one-way delay (ms)
- Red line: Flow 1 (95th percentile 47.53 ms)
Run 3: Statistics of SCReAM

Start at: 2020-04-17 05:44:32
End at: 2020-04-17 05:45:02
Local clock offset: -0.148 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.473 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

Throughput (Mbit/s)

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 (99th percentile 47.47 ms)

180
Run 4: Statistics of SCReAM

Start at: 2020-04-17 06:19:34
End at: 2020-04-17 06:20:04
Local clock offset: -0.056 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.543 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with mean 0.22 Mbit/s](image1)

![Graph showing per packet one way delay over time for Flow 1 with 95th percentile 47.54 ms](image2)
Run 5: Statistics of SCReAM

Start at: 2020-04-17 06:54:17
End at: 2020-04-17 06:54:47
Local clock offset: -0.101 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.839 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.839 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

![Graph showing network performance metrics over time]

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

![Graph showing packet delay over time]

- **Flow 1 (95th percentile 47.84 ms)**
Run 1: Statistics of Sprout

Start at: 2020-04-17 04:26:40
End at: 2020-04-17 04:27:10
Local clock offset: -0.017 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 47.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 47.983 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

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

186
Run 2: Statistics of Sprout

Start at: 2020-04-17 05:01:11
End at: 2020-04-17 05:01:41
Local clock offset: -0.055 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 47.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 47.286 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

[Graphs showing throughput and one-way delay over time]
Run 3: Statistics of Sprout

Start at: 2020-04-17 05:36:15
End at: 2020-04-17 05:36:45
Local clock offset: -0.112 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 47.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 47.976 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2020-04-17 06:10:59
End at: 2020-04-17 06:11:29
Local clock offset: -0.03 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.772 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2020-04-17 06:46:11
End at: 2020-04-17 06:46:41
Local clock offset: -0.1 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2020-04-17 09:53:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 50.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 50.703 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 8.70 Mbps)
- Flow 1 egress (mean 8.70 Mbps)

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

- Flow 1 (95th percentile 50.70 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2020-04-17 04:43:40
End at: 2020-04-17 04:44:10
Local clock offset: -0.006 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2020-04-17 09:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.21 Mbit/s
95th percentile per-packet one-way delay: 47.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.21 Mbit/s
95th percentile per-packet one-way delay: 47.923 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

![Graph 1]

![Graph 2]
Run 2: Statistics of TaoVA-100x

Start at: 2020-04-17 05:18:13
End at: 2020-04-17 05:18:43
Local clock offset: -0.115 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2020-04-17 09:59:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.04 Mbit/s
95th percentile per-packet one-way delay: 49.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 241.04 Mbit/s
95th percentile per-packet one-way delay: 49.407 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

![Graph 1](image1.png)

- Flow 1 ingress (mean 241.03 Mbit/s)
- Flow 1 egress (mean 241.04 Mbit/s)

![Graph 2](image2.png)

Flow 1 (95th percentile 49.41 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2020-04-17 05:52:51
End at: 2020-04-17 05:53:21
Local clock offset: -0.121 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2020-04-17 09:59:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.28 Mbit/s
95th percentile per-packet one-way delay: 48.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.28 Mbit/s
95th percentile per-packet one-way delay: 48.155 ms
Loss rate: 0.00%
Run 4: Statistics of TaoVA-100x

Start at: 2020-04-17 06:28:07
End at: 2020-04-17 06:28:37
Local clock offset: -0.112 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2020-04-17 09:59:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.95 Mbit/s
95th percentile per-packet one-way delay: 48.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.95 Mbit/s
95th percentile per-packet one-way delay: 48.522 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

![Graph showing throughput over time with two lines representing flow ingress and egress.]
Run 5: Statistics of TaoVA-100x

Start at: 2020-04-17 07:02:43
End at: 2020-04-17 07:03:13
Local clock offset: -0.113 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-04-17 09:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.92 Mbit/s
95th percentile per-packet one-way delay: 49.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.92 Mbit/s
95th percentile per-packet one-way delay: 49.713 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2020-04-17 04:15:57
End at: 2020-04-17 04:16:27
Local clock offset: -0.003 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2020-04-17 09:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.19 Mbit/s
95th percentile per-packet one-way delay: 47.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 275.19 Mbit/s
95th percentile per-packet one-way delay: 47.925 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2020-04-17 04:50:28
End at: 2020-04-17 04:50:58
Local clock offset: -0.055 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-04-17 10:07:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.40 Mbit/s
95th percentile per-packet one-way delay: 67.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 533.40 Mbit/s
95th percentile per-packet one-way delay: 67.108 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 533.38 Mbit/s)
- Flow 1 egress (mean 533.40 Mbit/s)

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

- Flow 1 (95th percentile 67.11 ms)
Run 3: Statistics of TCP Vegas

Start at: 2020-04-17 05:25:12
End at: 2020-04-17 05:25:42
Local clock offset: 0.267 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-17 10:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.52 Mbit/s
95th percentile per-packet one-way delay: 75.002 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 526.52 Mbit/s
95th percentile per-packet one-way delay: 75.002 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 526.50 Mbit/s)
- Flow 1 egress (mean 526.52 Mbit/s)

![Packet Delay Graph](image2)

- Flow 1 (95th percentile 75.00 ms)
Run 4: Statistics of TCP Vegas

Start at: 2020-04-17 05:59:53
End at: 2020-04-17 06:00:23
Local clock offset: -0.061 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2020-04-17 10:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.19 Mbit/s
95th percentile per-packet one-way delay: 73.314 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 557.19 Mbit/s
95th percentile per-packet one-way delay: 73.314 ms
Loss rate: 0.02%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2020-04-17 06:35:06
End at: 2020-04-17 06:35:36
Local clock offset: -0.09 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-04-17 10:11:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.98 Mbit/s
95th percentile per-packet one-way delay: 76.612 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 519.98 Mbit/s
95th percentile per-packet one-way delay: 76.612 ms
Loss rate: 0.01%
Run 5: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 520.10 Mbit/s)**
- **Flow 1 egress (mean 519.98 Mbit/s)**

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

- **Flow 1 (95th percentile 76.61 ms)**
Run 1: Statistics of Verus

Start at: 2020-04-17 04:42:17
End at: 2020-04-17 04:42:47
Local clock offset: -0.036 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-04-17 10:11:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.11 Mbit/s
95th percentile per-packet one-way delay: 140.838 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 173.11 Mbit/s
95th percentile per-packet one-way delay: 140.838 ms
Loss rate: 0.24%
Run 1: Report of Verus — Data Link

![Graph of data link throughput and delay](chart.png)
Run 2: Statistics of Verus

Start at: 2020-04-17 05:16:51
End at: 2020-04-17 05:17:21
Local clock offset: -0.113 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2020-04-17 10:11:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.08 Mbit/s
95th percentile per-packet one-way delay: 70.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.08 Mbit/s
95th percentile per-packet one-way delay: 70.825 ms
Loss rate: 0.00%
Run 2: Report of Verus — Data Link

![Graph showing network performance metrics]
Run 3: Statistics of Verus

Start at: 2020-04-17 05:51:29
End at: 2020-04-17 05:51:59
Local clock offset: -0.044 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2020-04-17 10:11:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.80 Mbit/s
95th percentile per-packet one-way delay: 69.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.80 Mbit/s
95th percentile per-packet one-way delay: 69.784 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

![Graph showing network performance metrics]

- Flow 1 ingress (mean 156.82 Mbit/s)
- Flow 1 egress (mean 156.80 Mbit/s)

![Graph showing packet delay]

- Flow 1 (95th percentile 69.78 ms)
Run 4: Statistics of Verus

Start at: 2020-04-17 06:26:43
End at: 2020-04-17 06:27:13
Local clock offset: 0.28 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 10:11:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.80 Mbit/s
95th percentile per-packet one-way delay: 144.038 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 178.80 Mbit/s
95th percentile per-packet one-way delay: 144.038 ms
Loss rate: 0.11%
Run 4: Report of Verus — Data Link

![Graph showing throughput and packet delay over time](image_url)
Run 5: Statistics of Verus

Start at: 2020-04-17 07:01:21
End at: 2020-04-17 07:01:51
Local clock offset: -0.098 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 10:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.92 Mbit/s
95th percentile per-packet one-way delay: 132.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.92 Mbit/s
95th percentile per-packet one-way delay: 132.899 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

![Graph 1: Throughput vs. Time]

- Flow 1 ingress (mean 162.90 Mbit/s)
- Flow 1 egress (mean 162.92 Mbit/s)

![Graph 2: Packet Delay vs. Time]

- Flow 1 (95th percentile 132.90 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2020-04-17 04:45:09
End at: 2020-04-17 04:45:39
Local clock offset: -0.401 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2020-04-17 10:14:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.70 Mbit/s
95th percentile per-packet one-way delay: 101.467 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 305.70 Mbit/s
95th percentile per-packet one-way delay: 101.467 ms
Loss rate: 0.02%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2020-04-17 05:19:41
End at: 2020-04-17 05:20:11
Local clock offset: -0.117 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2020-04-17 10:14:05
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 284.25 Mbit/s
  95th percentile per-packet one-way delay: 130.980 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 284.25 Mbit/s
  95th percentile per-packet one-way delay: 130.980 ms
  Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 284.24 Mbit/s)
- Flow 1 egress (mean 284.25 Mbit/s)

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

- Flow 1 (95th percentile 130.98 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2020-04-17 05:54:19
End at: 2020-04-17 05:54:50
Local clock offset: -0.086 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-04-17 10:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.00 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 381.00 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 0.06%
Run 3: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 381.23 Mbit/s)
- Flow 1 egress (mean 381.00 Mbit/s)

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

- Flow 1 (95th percentile 67.96 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2020-04-17 06:29:36
End at: 2020-04-17 06:30:06
Local clock offset: -0.13 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2020-04-17 10:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.22 Mbit/s
95th percentile per-packet one-way delay: 179.128 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 309.22 Mbit/s
95th percentile per-packet one-way delay: 179.128 ms
Loss rate: 0.16%
Run 4: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 309.69 Mbit/s)**
- **Flow 1 egress (mean 309.22 Mbit/s)**

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

- **Flow 1 (95th percentile 179.13 ms)**

232
Run 5: Statistics of PCC-Vivace

Start at: 2020-04-17 07:04:13
End at: 2020-04-17 07:04:43
Local clock offset: 0.211 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2020-04-17 10:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.21 Mbit/s
95th percentile per-packet one-way delay: 69.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.21 Mbit/s
95th percentile per-packet one-way delay: 69.736 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2020-04-17 04:34:11
End at: 2020-04-17 04:34:41
Local clock offset: 0.002 ms
Remote clock offset: -0.008 ms
Run 1: Report of WebRTC media — Data Link

![Throughput Graph]

![Delay Graph]
Run 2: Statistics of WebRTC media

Start at: 2020-04-17 05:08:38
End at: 2020-04-17 05:09:08
Local clock offset: -0.045 ms
Remote clock offset: 0.002 ms
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2020-04-17 05:43:25
End at: 2020-04-17 05:43:55
Local clock offset: -0.148 ms
Remote clock offset: -0.012 ms
Run 3: Report of WebRTC media — Data Link

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

Flow 1 ingress (mean 0.87 Mbit/s) — Flow 1 egress (mean 0.87 Mbit/s)

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

Flow 1 (95th percentile 47.53 ms)
Run 4: Statistics of WebRTC media

Start at: 2020-04-17 06:18:26
End at: 2020-04-17 06:18:56
Local clock offset: 0.322 ms
Remote clock offset: -0.037 ms
Run 4: Report of WebRTC media — Data Link

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

![Graph 2: Packet Delay Over Time](image)
Run 5: Statistics of WebRTC media

Start at: 2020-04-17 06:53:10
End at: 2020-04-17 06:53:40
Local clock offset: -0.066 ms
Remote clock offset: -0.078 ms
Run 5: Report of WebRTC media — Data Link

![Graph of throughput and delay over time for WebRTC media]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 0.77 Mbps)
  - Flow 1 egress (mean 0.77 Mbps)

- **Delay (ms):**
  - Flow 1 (95th percentile 47.73 ms)