Pantheon Report

Generated at 2020-02-19 03:27:52 (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 5.0.0-1026-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 @ de42328552b3776a75a932a94dfafdf722537b0ec
third_party/fillp @ 065bb722943babc2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbde58e56f4
third_party/indigo @ 2601c92e4a9d58d38dc4dfe0e0cdbe90c077e64d
third_party/libutp @ b3465b9428262f2b179eaaab4e906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da2095537730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61d9b92d708a8869fb484eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d18b623c091a55fec872b493e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f30f42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b0d
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutb2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
32 64 128 256
95th percentile one-way delay (ms)
0 200 400 600 800
Average throughput (Mbit/s)
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>695.58</td>
<td>149.13</td>
<td>2.39</td>
</tr>
<tr>
<td>Copa</td>
<td>5</td>
<td>327.31</td>
<td>62.69</td>
<td>0.01</td>
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<td>TCP Cubic</td>
<td>5</td>
<td>538.11</td>
<td>116.31</td>
<td>0.13</td>
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<tr>
<td>FillP</td>
<td>5</td>
<td>931.41</td>
<td>86.27</td>
<td>0.27</td>
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<td>FillP-Sheep</td>
<td>5</td>
<td>927.08</td>
<td>66.82</td>
<td>0.01</td>
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<tr>
<td>Indigo</td>
<td>5</td>
<td>191.38</td>
<td>50.70</td>
<td>0.00</td>
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<tr>
<td>Indigo-MusesC3</td>
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<td>571.68</td>
<td>58.47</td>
<td>0.00</td>
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<td>Indigo-MusesC5</td>
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<td>617.30</td>
<td>74.90</td>
<td>0.01</td>
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<td>Indigo-MusesD</td>
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<td>544.66</td>
<td>62.89</td>
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<td>Indigo-MusesT</td>
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<td>647.60</td>
<td>76.40</td>
<td>0.07</td>
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<td>LEDBAT</td>
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<td>36.61</td>
<td>51.20</td>
<td>0.00</td>
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<td>Muses_DecisionTree</td>
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<td>56.30</td>
<td>0.00</td>
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<td>PCC-Allegro</td>
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<td>149.56</td>
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<td>PCC-Expr</td>
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<td>147.41</td>
<td>2.98</td>
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<td>QUIC Cubic</td>
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<td>48.53</td>
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<td>SCReAM</td>
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<td>0.22</td>
<td>47.33</td>
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<td>Sprout</td>
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<td>9.00</td>
<td>48.81</td>
<td>0.00</td>
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<td>47.67</td>
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<td>335.95</td>
<td>52.67</td>
<td>0.01</td>
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<td>Verus</td>
<td>5</td>
<td>188.02</td>
<td>105.38</td>
<td>0.16</td>
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<tr>
<td>PCC-Vivace</td>
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<td>57.96</td>
<td>0.00</td>
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<td>WebRTC media</td>
<td>4</td>
<td>0.05</td>
<td>48.25</td>
<td>0.00</td>
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</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2020-02-18 21:56:42
End at: 2020-02-18 21:57:12
Local clock offset: 0.009 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-02-19 01:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.23 Mbit/s
95th percentile per-packet one-way delay: 157.285 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 595.23 Mbit/s
95th percentile per-packet one-way delay: 157.285 ms
Loss rate: 2.15%
Run 1: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)](image1)
- Flow 1 ingress (mean 608.32 Mbps)
- Flow 1 egress (mean 595.23 Mbps)

![Graph 2: Per-packet one-way delay (ms)](image2)
- Flow 1 (95th percentile 157.28 ms)
Run 2: Statistics of TCP BBR

Start at: 2020-02-18 22:32:12
End at: 2020-02-18 22:32:42
Local clock offset: -0.03 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2020-02-19 01:05:12
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 730.08 Mbit/s
  95th percentile per-packet one-way delay: 132.927 ms
  Loss rate: 1.41%
-- Flow 1:
  Average throughput: 730.08 Mbit/s
  95th percentile per-packet one-way delay: 132.927 ms
  Loss rate: 1.41%
Run 2: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 740.49 Mbit/s)
- Flow 1 egress (mean 730.08 Mbit/s)

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

Flow 1 (95th percentile 132.93 ms)
Run 3: Statistics of TCP BBR

Start at: 2020-02-18 23:07:45
End at: 2020-02-18 23:08:15
Local clock offset: -0.006 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-02-19 01:07:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 871.67 Mbit/s
95th percentile per-packet one-way delay: 126.368 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 871.67 Mbit/s
95th percentile per-packet one-way delay: 126.368 ms
Loss rate: 1.62%
Run 3: Report of TCP BBR — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 ingress (mean 886.05 Mbit/s)**
- **Flow 1 egress (mean 871.67 Mbit/s)**

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

- **Flow 1 (95th percentile 126.37 ms)**
Run 4: Statistics of TCP BBR

Start at: 2020-02-18 23:43:12
End at: 2020-02-18 23:43:42
Local clock offset: -0.118 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2020-02-19 01:07:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.66 Mbit/s
95th percentile per-packet one-way delay: 172.288 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 580.66 Mbit/s
95th percentile per-packet one-way delay: 172.288 ms
Loss rate: 4.20%
Run 4: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]
Run 5: Statistics of TCP BBR

Start at: 2020-02-19 00:18:35
End at: 2020-02-19 00:19:05
Local clock offset: -0.031 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2020-02-19 01:07:26
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 700.28 Mbit/s
  95th percentile per-packet one-way delay: 156.798 ms
  Loss rate: 2.58%
-- Flow 1:
  Average throughput: 700.28 Mbit/s
  95th percentile per-packet one-way delay: 156.798 ms
  Loss rate: 2.58%
Run 5: Report of TCP BBR — Data Link

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

- **Flow 1 ingress (mean 718.94 Mbps)**
- **Flow 1 egress (mean 700.28 Mbps)**

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

- **Flow 1 (95th percentile 156.80 ms)**
Run 1: Statistics of Copa

Start at: 2020-02-18 21:40:36
End at: 2020-02-18 21:41:06
Local clock offset: -0.065 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2020-02-19 01:07:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.79 Mbit/s
95th percentile per-packet one-way delay: 63.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 349.79 Mbit/s
95th percentile per-packet one-way delay: 63.210 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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

Start at: 2020-02-18 22:16:20
End at: 2020-02-18 22:16:50
Local clock offset: -0.07 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2020-02-19 01:07:26
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 320.66 Mbit/s
  95th percentile per-packet one-way delay: 64.488 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 320.66 Mbit/s
  95th percentile per-packet one-way delay: 64.488 ms
  Loss rate: 0.00%
Run 2: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

Flow 1 ingress (mean 320.65 Mbit/s)  Flow 1 egress (mean 320.66 Mbit/s)

![Graph 2: Packet delay (ms)]
Run 3: Statistics of Copa

Start at: 2020-02-18 22:51:58
End at: 2020-02-18 22:52:28
Local clock offset: -0.018 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2020-02-19 01:07:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.31 Mbit/s
95th percentile per-packet one-way delay: 62.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 281.31 Mbit/s
95th percentile per-packet one-way delay: 62.255 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2020-02-18 23:27:15
End at: 2020-02-18 23:27:45
Local clock offset: -0.104 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-02-19 01:15:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.01 Mbit/s
95th percentile per-packet one-way delay: 59.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 352.01 Mbit/s
95th percentile per-packet one-way delay: 59.728 ms
Loss rate: 0.00%
Run 5: Statistics of Copa

Start at: 2020-02-19 00:02:38
End at: 2020-02-19 00:03:08
Local clock offset: -0.01 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2020-02-19 01:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.77 Mbit/s
95th percentile per-packet one-way delay: 63.785 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 332.77 Mbit/s
95th percentile per-packet one-way delay: 63.785 ms
Loss rate: 0.04%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 332.89 Mbit/s)
- Flow 1 egress (mean 332.77 Mbit/s)
Run 1: Statistics of TCP Cubic

Start at: 2020-02-18 21:44:59
End at: 2020-02-18 21:45:29
Local clock offset: -0.385 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-02-19 01:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 553.34 Mbit/s
95th percentile per-packet one-way delay: 141.492 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 553.34 Mbit/s
95th percentile per-packet one-way delay: 141.492 ms
Loss rate: 0.19%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2020-02-18 22:20:33
End at: 2020-02-18 22:21:03
Local clock offset: -0.069 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 01:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.91 Mbit/s
95th percentile per-packet one-way delay: 55.161 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 508.91 Mbit/s
95th percentile per-packet one-way delay: 55.161 ms
Loss rate: 0.01%
Run 2: Report of TCP Cubic — Data Link

![Throughput Graph]

![Delay Graph]

Legend:
- Flow 1 ingress (mean 508.88 Mbit/s)
- Flow 1 egress (mean 508.91 Mbit/s)
- Flow 1 (95th percentile 55.16 ms)
Run 3: Statistics of TCP Cubic

Start at: 2020-02-18 22:56:09
End at: 2020-02-18 22:56:39
Local clock offset: -0.032 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2020-02-19 01:16:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.41 Mbit/s
95th percentile per-packet one-way delay: 111.888 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 558.41 Mbit/s
95th percentile per-packet one-way delay: 111.888 ms
Loss rate: 0.16%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2020-02-18 23:31:32
End at: 2020-02-18 23:32:02
Local clock offset: -0.083 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-02-19 01:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.54 Mbit/s
95th percentile per-packet one-way delay: 129.974 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 558.54 Mbit/s
95th percentile per-packet one-way delay: 129.974 ms
Loss rate: 0.22%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 559.79 Mbit/s)
- Flow 1 egress (mean 558.54 Mbit/s)

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

- Flow 1 (95th percentile 129.97 ms)
Run 5: Statistics of TCP Cubic

Start at: 2020-02-19 00:06:56
End at: 2020-02-19 00:07:26
Local clock offset: -0.025 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2020-02-19 01:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.36 Mbit/s
95th percentile per-packet one-way delay: 143.020 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 511.36 Mbit/s
95th percentile per-packet one-way delay: 143.020 ms
Loss rate: 0.05%
Run 5: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2020-02-18 22:11:13
End at: 2020-02-18 22:11:43
Local clock offset: -0.048 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2020-02-19 01:35:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1018.94 Mbit/s
95th percentile per-packet one-way delay: 49.392 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1018.94 Mbit/s
95th percentile per-packet one-way delay: 49.392 ms
Loss rate: 0.01%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2020-02-18 22:47:03
End at: 2020-02-18 22:47:33
Local clock offset: -0.059 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-02-19 01:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 880.48 Mbit/s
95th percentile per-packet one-way delay: 106.011 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 880.48 Mbit/s
95th percentile per-packet one-way delay: 106.011 ms
Loss rate: 0.91%
Run 2: Report of FillP — Data Link

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

Throughput (Mbps):
- Flow 1 ingress (mean 888.46 Mbps)
- Flow 1 egress (mean 880.48 Mbps)

Packet delay (ms):
- Flow 1 (95th percentile 106.01 ms)
Run 3: Statistics of FillP

Start at: 2020-02-18 23:22:18
End at: 2020-02-18 23:22:48
Local clock offset: 0.262 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2020-02-19 01:40:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 920.71 Mbit/s
95th percentile per-packet one-way delay: 97.753 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 920.71 Mbit/s
95th percentile per-packet one-way delay: 97.753 ms
Loss rate: 0.23%
Run 3: Report of FillP — Data Link

![Graph 1: Throughput Over Time]

![Graph 2: Per-Packet ONE-WAY Delay Over Time]

Legend:
- Flow 1 Ingress (mean 922.80 Mb/s)
- Flow 1 Egress (mean 920.71 Mb/s)
- Flow 1 95th percentile 97.75 ms
Run 4: Statistics of FillP

Start at: 2020-02-18 23:57:35
End at: 2020-02-18 23:58:05
Local clock offset: -0.072 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2020-02-19 01:42:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 976.25 Mbit/s
95th percentile per-packet one-way delay: 81.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 976.25 Mbit/s
95th percentile per-packet one-way delay: 81.862 ms
Loss rate: 0.00%
Run 4: Report of FillP — Data Link

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

- Blue line: Flow 1 ingress (mean 976.24 Mbit/s)
- Blue line: Flow 1 egress (mean 976.25 Mbit/s)

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

- Blue line: Flow 1 (95th percentile 81.86 ms)
Run 5: Statistics of FillP

Start at: 2020-02-19 00:33:25  
End at: 2020-02-19 00:33:55  
Local clock offset: -0.048 ms  
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2020-02-19 01:42:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 860.69 Mbit/s
95th percentile per-packet one-way delay: 96.356 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 860.69 Mbit/s
95th percentile per-packet one-way delay: 96.356 ms
Loss rate: 0.20%
Run 5: Report of FillP — Data Link
Run 1: Statistics of FillP-Sheep

Start at: 2020-02-18 21:58:20
End at: 2020-02-18 21:58:50
Local clock offset: -0.063 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2020-02-19 01:42:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 988.72 Mbit/s
95th percentile per-packet one-way delay: 62.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 988.72 Mbit/s
95th percentile per-packet one-way delay: 62.573 ms
Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 988.69 Mbps)
- Flow 1 egress (mean 988.72 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 62.57 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2020-02-18 22:33:52
End at: 2020-02-18 22:34:22
Local clock offset: -0.087 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-02-19 01:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1001.68 Mbit/s
95th percentile per-packet one-way delay: 53.371 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 1001.68 Mbit/s
95th percentile per-packet one-way delay: 53.371 ms
Loss rate: 0.02%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2020-02-18 23:09:29
End at: 2020-02-18 23:09:59
Local clock offset: 0.028 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-02-19 01:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 871.26 Mbit/s
95th percentile per-packet one-way delay: 58.245 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 871.26 Mbit/s
95th percentile per-packet one-way delay: 58.245 ms
Loss rate: 0.01%
Run 3: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 871.19 Mbit/s)**
- **Flow 1 egress (mean 871.26 Mbit/s)**

![Graph of per-packet one-way delay over time for Flow 1]

- **Flow 1 (95th percentile 50.24 ms)**
Run 4: Statistics of FillP-Sheep

Start at: 2020-02-18 23:44:47
End at: 2020-02-18 23:45:17
Local clock offset: -0.088 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 938.02 Mbit/s
95th percentile per-packet one-way delay: 77.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 938.02 Mbit/s
95th percentile per-packet one-way delay: 77.867 ms
Loss rate: 0.00%
Run 4: Report of FillP-Sheep — Data Link
Run 5: Statistics of FillP-Sheep

Start at: 2020-02-19 00:20:15
End at: 2020-02-19 00:20:45
Local clock offset: -0.046 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 835.71 Mbit/s
95th percentile per-packet one-way delay: 82.030 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 835.71 Mbit/s
95th percentile per-packet one-way delay: 82.030 ms
Loss rate: 0.01%
Run 5: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 835.78 Mbit/s)**
- **Flow 1 egress (mean 835.71 Mbit/s)**

![Graph 2: Per packet round-trip delay](image2)

- **Flow 1 (95th percentile 82.03 ms)**
Run 1: Statistics of Indigo

Start at: 2020-02-18 22:08:47
End at: 2020-02-18 22:09:17
Local clock offset: -0.029 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 101.81 Mbit/s
  95th percentile per-packet one-way delay: 51.627 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 101.81 Mbit/s
  95th percentile per-packet one-way delay: 51.627 ms
  Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet inter-packet delay (ms)]
Run 2: Statistics of Indigo

Start at: 2020-02-18 22:44:25
End at: 2020-02-18 22:44:56
Local clock offset: -0.075 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.54 Mbit/s
95th percentile per-packet one-way delay: 50.731 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 198.54 Mbit/s
95th percentile per-packet one-way delay: 50.731 ms
Loss rate: 0.01%
Run 2: Report of Indigo — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 198.55 Mbit/s)
- Flow 1 egress (mean 198.54 Mbit/s)

![Latency Graph]

- Flow 1 (95th percentile 50.73 ms)
Run 3: Statistics of Indigo

Start at: 2020-02-18 23:19:40
End at: 2020-02-18 23:20:10
Local clock offset: -0.056 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.31 Mbit/s
95th percentile per-packet one-way delay: 48.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.31 Mbit/s
95th percentile per-packet one-way delay: 48.099 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2020-02-18 23:54:55
End at: 2020-02-18 23:55:25
Local clock offset: -0.024 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.43 Mbit/s
95th percentile per-packet one-way delay: 51.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.43 Mbit/s
95th percentile per-packet one-way delay: 51.883 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 227.43 Mbit/s)
- Flow 1 egress (mean 227.43 Mbit/s)

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

- Flow 1 (95th percentile 51.88 ms)
Run 5: Statistics of Indigo

Start at: 2020-02-19 00:30:46
End at: 2020-02-19 00:31:16
Local clock offset: -0.048 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.81 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.81 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 214.81 Mbit/s)
- Flow 1 egress (mean 214.81 Mbit/s)

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

- Flow 1 (95th percentile 51.14 ms)
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-18 22:03:02
End at: 2020-02-18 22:03:32
Local clock offset: -0.058 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.36 Mbit/s
95th percentile per-packet one-way delay: 69.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.36 Mbit/s
95th percentile per-packet one-way delay: 69.177 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 497.22 Mbps)
- Flow 1 egress (mean 497.36 Mbps)

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

- Flow 1 (95th percentile 69.18 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-18 22:38:37
End at: 2020-02-18 22:39:07
Local clock offset: -0.04 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 02:00:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.47 Mbit/s
95th percentile per-packet one-way delay: 56.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 574.47 Mbit/s
95th percentile per-packet one-way delay: 56.014 ms
Loss rate: 0.00%
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-18 23:13:52
End at: 2020-02-18 23:14:22
Local clock offset: -0.016 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2020-02-19 02:01:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 603.87 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 603.87 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.01%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-18 23:49:08
End at: 2020-02-18 23:49:38
Local clock offset: -0.064 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2020-02-19 02:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.33 Mbit/s
95th percentile per-packet one-way delay: 56.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 599.33 Mbit/s
95th percentile per-packet one-way delay: 56.049 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph showing throughput over time with two lines indicating Flow 1 ingress and egress.]
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-19 00:24:58
End at: 2020-02-19 00:25:28
Local clock offset: -0.049 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2020-02-19 02:04:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.35 Mbit/s
95th percentile per-packet one-way delay: 57.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 583.35 Mbit/s
95th percentile per-packet one-way delay: 57.398 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-18 21:52:29
End at: 2020-02-18 21:52:59
Local clock offset: -0.041 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2020-02-19 02:05:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.55 Mbit/s
95th percentile per-packet one-way delay: 66.123 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 611.55 Mbit/s
95th percentile per-packet one-way delay: 66.123 ms
Loss rate: 0.03%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-18 22:27:57
End at: 2020-02-18 22:28:27
Local clock offset: -0.081 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2020-02-19 02:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 624.11 Mbit/s
95th percentile per-packet one-way delay: 55.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 624.11 Mbit/s
95th percentile per-packet one-way delay: 55.216 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link

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

**Throughput**: 700 to 0 Mbit/s
**Delay**: 110 to 0 ms

- **Flow 1 ingress (mean 624.09 Mbit/s)**
- **Flow 1 egress (mean 624.11 Mbit/s)**

**Flow 1 (95th percentile 55.22 ms)**
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-18 23:03:29
End at: 2020-02-18 23:03:59
Local clock offset: -0.018 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-02-19 02:09:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 637.88 Mbit/s
95th percentile per-packet one-way delay: 65.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 637.88 Mbit/s
95th percentile per-packet one-way delay: 65.798 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC5 — Data Link

![Graph of network throughput over time]

- **Throughput (Mbps)**: The graph shows the throughput in Mbps over time, with two distinct flows: ingress and egress. The throughput fluctuates between 500 and 600 Mbps, with occasional spikes.

- **Time (s)**: The x-axis represents time in seconds, ranging from 0 to 25.

- **Flow 1 ingress** (mean 637.86 Mbps) and **Flow 1 egress** (mean 637.88 Mbps): The two lines on the graph represent the throughput for the ingress and egress flows, respectively.

![Graph of packet delay over time]

- **Packet delay (ms)**: The y-axis represents packet delay in milliseconds, ranging from 50 to 90.

- **Time (s)**: The x-axis represents time in seconds, ranging from 0 to 25.

- **Flow 1 (95th percentile 65.8 ms)**: The blue line on the graph represents the packet delay for Flow 1, with the 95th percentile delay being 65.8 ms.
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-18 23:39:01
End at: 2020-02-18 23:39:31
Local clock offset: ~0.069 ms
Remote clock offset: ~0.076 ms

# Below is generated by plot.py at 2020-02-19 02:13:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.15 Mbit/s
95th percentile per-packet one-way delay: 131.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 591.15 Mbit/s
95th percentile per-packet one-way delay: 131.445 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC5 — Data Link
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-19 00:14:22
End at: 2020-02-19 00:14:52
Local clock offset: -0.014 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2020-02-19 02:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.83 Mbit/s
95th percentile per-packet one-way delay: 55.924 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 621.83 Mbit/s
95th percentile per-packet one-way delay: 55.924 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC5 — Data Link

![Graph of throughput over time](image1)

- Flow 1 ingress (mean 621.86 Mbit/s)
- Flow 1 egress (mean 621.83 Mbit/s)

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

- Flow 1 (95th percentile 55.92 ms)
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-18 22:04:33
End at: 2020-02-18 22:05:03
Local clock offset: -0.048 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2020-02-19 02:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.88 Mbit/s
95th percentile per-packet one-way delay: 51.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 555.88 Mbit/s
95th percentile per-packet one-way delay: 51.206 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesD — Data Link

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

Flow 1 ingress (mean 555.86 Mbps)  Flow 1 egress (mean 555.88 Mbps)

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

Flow 1 (95th percentile 51.21 ms)
Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-18 22:40:12
End at: 2020-02-18 22:40:42
Local clock offset: -0.061 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-02-19 02:14:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.61 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 554.61 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 554.60 Mbps)
  - Flow 1 egress (mean 554.61 Mbps)

- **Packet one-way delay (ms):**
  - Flow 1 (95th percentile 50.80 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-18 23:15:28
End at: 2020-02-18 23:15:58
Local clock offset: -0.043 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2020-02-19 02:17:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 551.00 Mbit/s
95th percentile per-packet one-way delay: 65.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 551.00 Mbit/s
95th percentile per-packet one-way delay: 65.487 ms
Loss rate: 0.00%
Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-18 23:50:44
End at: 2020-02-18 23:51:14
Local clock offset: -0.066 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2020-02-19 02:17:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 517.65 Mbit/s
95th percentile per-packet one-way delay: 79.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 517.65 Mbit/s
95th percentile per-packet one-way delay: 79.578 ms
Loss rate: 0.00%
Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-19 00:26:33
End at: 2020-02-19 00:27:03
Local clock offset: -0.04 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2020-02-19 02:19:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 544.16 Mbit/s
95th percentile per-packet one-way delay: 67.366 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 544.16 Mbit/s
95th percentile per-packet one-way delay: 67.366 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

[Graph showing throughput (kbps) over time]

[Graph showing per-packet one-way delay (ms) over time]
Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-18 21:39:11
End at: 2020-02-18 21:39:41
Local clock offset: -0.063 ms
Remote clock offset: -0.031 ms
Run 1: Report of Indigo-MusesT — Data Link

![Throughput (Mbps)](image)

- Flow 1 ingress (mean 607.79 Mbit/s)
- Flow 1 egress (mean 607.61 Mbit/s)

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

- Flow 1 (95th percentile 62.68 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-18 22:14:42
End at: 2020-02-18 22:15:12
Local clock offset: -0.427 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-02-19 02:27:43
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 644.77 Mbit/s
  95th percentile per-packet one-way delay: 72.607 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 644.77 Mbit/s
  95th percentile per-packet one-way delay: 72.607 ms
  Loss rate: 0.09%
Run 2: Report of Indigo-MusesT — Data Link
Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-18 22:50:21
End at: 2020-02-18 22:50:51
Local clock offset: -0.043 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2020-02-19 02:27:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.62 Mbit/s
95th percentile per-packet one-way delay: 84.937 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 635.62 Mbit/s
95th percentile per-packet one-way delay: 84.937 ms
Loss rate: 0.17%
Run 3: Report of Indigo-MusesT — Data Link

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

- **Flow 1 ingress (mean 636.70 Mbit/s)**
- **Flow 1 egress (mean 635.62 Mbit/s)**

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

- **Flow 1 (95th percentile 84.94 ms)**
Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-18 23:25:37
End at: 2020-02-18 23:26:07
Local clock offset: -0.101 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 663.36 Mbit/s
95th percentile per-packet one-way delay: 73.351 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 663.36 Mbit/s
95th percentile per-packet one-way delay: 73.351 ms
Loss rate: 0.03%
Run 4: Report of Indigo-MusesT — Data Link
Run 5: Statistics of Indigo-Musest

Start at: 2020-02-19 00:01:00
End at: 2020-02-19 00:01:30
Local clock offset: -0.396 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 646.66 Mbit/s
  95th percentile per-packet one-way delay: 74.721 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 646.66 Mbit/s
  95th percentile per-packet one-way delay: 74.721 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesT — Data Link

- **Flow 1 ingress** (mean 646.64 Mbit/s)
- **Flow 1 egress** (mean 646.66 Mbit/s)

**Per packet end-to-end delay (ms):**
- Flow 1 (95th percentile 74.72 ms)
Run 1: Statistics of LEDBAT

End at: 2020-02-18 21:56:02
Local clock offset: -0.092 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 51.631 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.95 Mbit/s
95th percentile per-packet one-way delay: 51.631 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

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

- **Throughput**:
  - Flow 1 ingress: Mean 27.95 Mbps
  - Flow 1 egress: Mean 27.65 Mbps

- **Packet Delay**:
  - Flow 1 (95th percentile 51.63 ms)
Run 2: Statistics of LEDBAT

Start at: 2020-02-18 22:31:00
End at: 2020-02-18 22:31:30
Local clock offset: -0.038 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 48.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.06 Mbit/s
95th percentile per-packet one-way delay: 48.525 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2020-02-18 23:06:33
End at: 2020-02-18 23:07:03
Local clock offset: -0.031 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 51.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 51.908 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

[Graph of throughput and packet delay over time]

Flow 1 ingress (mean 38.78 Mbit/s)  Flow 1 egress (mean 38.79 Mbit/s)

Flow 1 (95th percentile 51.91 ms)
Run 4: Statistics of LEDBAT

Start at: 2020-02-18 23:42:00
End at: 2020-02-18 23:42:30
Local clock offset: -0.101 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 51.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 51.978 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2020-02-19 00:17:23
End at: 2020-02-19 00:17:53
Local clock offset: -0.052 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-02-19 02:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.78 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 21:46:35
End at: 2020-02-18 21:47:05
Local clock offset: -0.049 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2020-02-19 02:31:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.00 Mbit/s
95th percentile per-packet one-way delay: 63.407 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 534.00 Mbit/s
95th percentile per-packet one-way delay: 63.407 ms
Loss rate: 0.00%
Run 1: Report of Muses DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 22:22:05
End at: 2020-02-18 22:22:35
Local clock offset: -0.445 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-02-19 02:31:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.64 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 527.64 Mbit/s
95th percentile per-packet one-way delay: 51.257 ms
Loss rate: 0.01%
Run 2: Report of Muses

DecisionTree — Data Link

---

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 527.63 Mbit/s)  Flow 1 egress (mean 527.64 Mbit/s)

---

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 51.26 ms)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 22:57:45  
End at: 2020-02-18 22:58:15  
Local clock offset: -0.004 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2020-02-19 02:31:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 432.47 Mbit/s
95th percentile per-packet one-way delay: 48.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 432.47 Mbit/s
95th percentile per-packet one-way delay: 48.152 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 23:33:07
End at: 2020-02-18 23:33:37
Local clock offset: -0.103 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-02-19 02:33:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.95 Mbit/s
95th percentile per-packet one-way delay: 59.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 600.95 Mbit/s
95th percentile per-packet one-way delay: 59.204 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-02-19 00:08:29
End at: 2020-02-19 00:08:59
Local clock offset: -0.058 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2020-02-19 02:37:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.26 Mbit/s
95th percentile per-packet one-way delay: 48.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 429.26 Mbit/s
95th percentile per-packet one-way delay: 48.000 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTree — Data Link

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

![Graph 2: Per packet one-way delay vs Time](image2)
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 21:54:05
End at: 2020-02-18 21:54:35
Local clock offset: -0.041 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2020-02-19 02:37:32
# Datalink statistics

-- Total of 1 flow:
Average throughput: 387.40 Mbit/s
95th percentile per-packet one-way delay: 99.373 ms
Loss rate: 0.21%

-- Flow 1:
Average throughput: 387.40 Mbit/s
95th percentile per-packet one-way delay: 99.373 ms
Loss rate: 0.21%
Run 1: Report of Muses.DecisionTreeH0 — Data Link

![Graph showing network metrics over time]

**Throughput (Mbps):**
- **Flow 1 ingress (mean 388.24 Mbps)**
- **Flow 1 egress (mean 387.40 Mbps)**

**Per packet one way delay (ms):**
- **Flow 1 (95th percentile 99.37 ms)**
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 22:29:34
End at: 2020-02-18 22:30:04
Local clock offset: -0.061 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-02-19 02:38:10
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 398.15 Mbit/s
  95th percentile per-packet one-way delay: 108.716 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 398.15 Mbit/s
  95th percentile per-packet one-way delay: 108.716 ms
  Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
 Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 23:05:07
End at: 2020-02-18 23:05:37
Local clock offset: 0.007 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2020-02-19 02:38:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 383.97 Mbit/s
95th percentile per-packet one-way delay: 92.065 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 383.97 Mbit/s
95th percentile per-packet one-way delay: 92.065 ms
Loss rate: 0.02%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

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

- **Flow 1 ingress (mean 384.03 Mbps)**
- **Flow 1 egress (mean 383.97 Mbps)**

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

- **Flow 1 (95th percentile 92.06 ms)**
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 23:40:36
End at: 2020-02-18 23:41:06
Local clock offset: -0.143 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2020-02-19 02:38:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.50 Mbit/s
95th percentile per-packet one-way delay: 116.878 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 344.50 Mbit/s
95th percentile per-packet one-way delay: 116.878 ms
Loss rate: 0.35%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

- Flow 1 ingress (mean 346.66 Mbit/s)
- Flow 1 egress (mean 344.50 Mbit/s)

- Flow 1 (95th percentile 116.80 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-19 00:15:59  
End at: 2020-02-19 00:16:29  
Local clock offset: 0.011 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2020-02-19 02:38:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 333.60 Mbit/s  
95th percentile per-packet one-way delay: 120.634 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 333.60 Mbit/s  
95th percentile per-packet one-way delay: 120.634 ms  
Loss rate: 0.22%
Run 5: Report of Muses\_DecisionTreeH0 — Data Link

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

- **Flow 1 ingress (mean 334.33 Mbit/s)**
- **Flow 1 egress (mean 333.60 Mbit/s)**

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

- **Flow 1 (95th percentile 120.63 ms)**
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 21:50:55
End at: 2020-02-18 21:51:25
Local clock offset: -0.067 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2020-02-19 02:42:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.04 Mbit/s
95th percentile per-packet one-way delay: 71.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 528.04 Mbit/s
95th percentile per-packet one-way delay: 71.486 ms
Loss rate: 0.00%
Run 1: Report of Muses\_Decision\_TreeR0 — Data Link

---

![Graph 1](image1.png)

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![Graph 2](image2.png)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 22:26:20
End at: 2020-02-18 22:26:50
Local clock offset: -0.064 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2020-02-19 02:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.34 Mbit/s
95th percentile per-packet one-way delay: 50.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 608.34 Mbit/s
95th percentile per-packet one-way delay: 50.619 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

[Graphs showing throughput and delay over time]
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 23:01:55
End at: 2020-02-18 23:02:25
Local clock offset: -0.376 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-02-19 02:47:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.26 Mbit/s
95th percentile per-packet one-way delay: 51.330 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 539.26 Mbit/s
95th percentile per-packet one-way delay: 51.330 ms
Loss rate: 0.01%
Run 3: Report of Muses_DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 23:37:24
End at: 2020-02-18 23:37:54
Local clock offset: -0.086 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2020-02-19 02:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.25 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 595.25 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-19 00:12:44
End at: 2020-02-19 00:13:14
Local clock offset: -0.037 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2020-02-19 02:50:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 609.95 Mbit/s
95th percentile per-packet one-way delay: 54.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 609.95 Mbit/s
95th percentile per-packet one-way delay: 54.333 ms
Loss rate: 0.00%
Run 5: Report of Muses DecisionTreeR0 — Data Link

---

**Graph 1:**
- **Throughput (Mbps):**
- **Time (s):**
- **Flow 1 ingress (mean 609.94 Mbit/s)**
- **Flow 1 egress (mean 609.95 Mbit/s)**

**Graph 2:**
- **Per-packet one way delay (ms):**
- **Flow 1 (95th percentile 54.33 ms)**
Run 1: Statistics of PCC-Allegro

Start at: 2020-02-18 21:48:09
End at: 2020-02-18 21:48:39
Local clock offset: -0.064 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-02-19 02:57:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.88 Mbit/s
95th percentile per-packet one-way delay: 163.046 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 463.88 Mbit/s
95th percentile per-packet one-way delay: 163.046 ms
Loss rate: 2.01%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2020-02-18 22:23:38
End at: 2020-02-18 22:24:08
Local clock offset: -0.082 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-02-19 02:57:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 421.12 Mbit/s
95th percentile per-packet one-way delay: 70.959 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 421.12 Mbit/s
95th percentile per-packet one-way delay: 70.959 ms
Loss rate: 0.01%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2020-02-18 22:59:13
End at: 2020-02-18 22:59:43
Local clock offset: -0.022 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-02-19 02:57:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 414.92 Mbit/s
95th percentile per-packet one-way delay: 168.993 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 414.92 Mbit/s
95th percentile per-packet one-way delay: 168.993 ms
Loss rate: 2.05%
Run 3: Report of PCC-Allegro — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per packet one way delay (ms)

Legend:
- Flow 1 ingress (mean 423.61 Mbit/s)
- Flow 1 egress (mean 414.92 Mbit/s)
- Flow 1 (95th percentile 168.99 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2020-02-18 23:34:44
End at: 2020-02-18 23:35:14
Local clock offset: -0.095 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2020-02-19 02:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.39 Mbit/s
95th percentile per-packet one-way delay: 167.631 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 384.39 Mbit/s
95th percentile per-packet one-way delay: 167.631 ms
Loss rate: 0.69%
Run 4: Report of PCC-Allegro — Data Link

---

**Figures:**

1. **Throughput (Mbps):**
   - **Flow 1 ingress** (mean 387.07 Mbit/s)
   - **Flow 1 egress** (mean 384.39 Mbit/s)

2. **Per packet one way delay (ms):**
   - **Flow 1** (95th percentile 167.63 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2020-02-19 00:09:58
End at: 2020-02-19 00:10:28
Local clock offset: -0.027 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2020-02-19 03:07:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.27 Mbit/s
95th percentile per-packet one-way delay: 177.163 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 449.27 Mbit/s
95th percentile per-packet one-way delay: 177.163 ms
Loss rate: 3.41%
Run 5: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2020-02-18 21:37:31
End at: 2020-02-18 21:38:01
Local clock offset: -0.077 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-02-19 03:07:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.95 Mbit/s
95th percentile per-packet one-way delay: 142.453 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 337.95 Mbit/s
95th percentile per-packet one-way delay: 142.453 ms
Loss rate: 2.35%
Run 1: Report of PCC-Expr — Data Link

![Chart 1: Throughput (Mbps)]

![Chart 2: Per packet one way delay (ms)]
Run 2: Statistics of PCC-Expr

Start at: 2020-02-18 22:13:01
End at: 2020-02-18 22:13:31
Local clock offset: -0.061 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2020-02-19 03:07:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.81 Mbit/s
95th percentile per-packet one-way delay: 139.270 ms
Loss rate: 3.94%
-- Flow 1:
Average throughput: 371.81 Mbit/s
95th percentile per-packet one-way delay: 139.270 ms
Loss rate: 3.94%
Run 2: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 387.01 Mbit/s)
- Flow 1 egress (mean 371.81 Mbit/s)

- Flow 1 (95th percentile 139.27 ms)
Run 3: Statistics of PCC-Expr

Start at: 2020-02-18 22:48:46
End at: 2020-02-18 22:49:16
Local clock offset: -0.038 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-02-19 03:07:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.53 Mbit/s
95th percentile per-packet one-way delay: 169.800 ms
Loss rate: 6.01%
-- Flow 1:
Average throughput: 306.53 Mbit/s
95th percentile per-packet one-way delay: 169.800 ms
Loss rate: 6.01%
Run 3: Report of PCC-Expr — Data Link

Graph 1: Throughput (Mbps) vs. Time (s)
- Flow 1 ingress (mean 326.07 Mbps)
- Flow 1 egress (mean 306.53 Mbps)

Graph 2: Packet end-to-end delay (ms) vs. Time (s)
- Flow 1 (95th percentile 169.80 ms)
Run 4: Statistics of PCC-Expr

Start at: 2020-02-18 23:24:02
End at: 2020-02-18 23:24:32
Local clock offset: -0.092 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 03:09:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.84 Mbit/s
95th percentile per-packet one-way delay: 137.743 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 310.84 Mbit/s
95th percentile per-packet one-way delay: 137.743 ms
Loss rate: 0.77%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 23:59:22
End at: 2020-02-18 23:59:52
Local clock offset: ~0.394 ms
Remote clock offset: ~0.061 ms

# Below is generated by plot.py at 2020-02-19 03:11:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 337.82 Mbit/s
  95th percentile per-packet one-way delay: 147.790 ms
  Loss rate: 1.82%
-- Flow 1:
  Average throughput: 337.82 Mbit/s
  95th percentile per-packet one-way delay: 147.790 ms
  Loss rate: 1.82%
Run 5: Report of PCC-Expr — Data Link

Graph showing throughput and packet delay over time.
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-18 22:10:04
End at: 2020-02-18 22:10:34
Local clock offset: ~0.033 ms
Remote clock offset: ~0.045 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 47.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 47.267 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2020-02-18 22:45:52
End at: 2020-02-18 22:46:22
Local clock offset: -0.019 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.01%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2020-02-18 23:21:07
End at: 2020-02-18 23:21:37
Local clock offset: -0.071 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 47.372 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2020-02-18 23:56:24
End at: 2020-02-18 23:56:54
Local clock offset: -0.05 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 49.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.60 Mbit/s
95th percentile per-packet one-way delay: 49.882 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2020-02-19 00:32:14
End at: 2020-02-19 00:32:44
Local clock offset: -0.073 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.86 Mbit/s
95th percentile per-packet one-way delay: 47.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.86 Mbit/s
95th percentile per-packet one-way delay: 47.685 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

![Graph of throughput and delay over time for QUIC Cubic flow 1 ingress and egress.]
Run 1: Statistics of SCReAM

Start at: 2020-02-18 21:49:48
End at: 2020-02-18 21:50:18
Local clock offset: -0.05 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.477 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

Time (s)

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

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

Time (s)

- Flow 1 (95th percentile 47.48 ms)
Run 2: Statistics of SCReAM

Start at: 2020-02-18 22:25:12
End at: 2020-02-18 22:25:42
Local clock offset: -0.067 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

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

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

![Graph 2: Packet one way delay](image2)

- **Flow 1 (95th percentile 46.76 ms)**

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Run 3: Statistics of SCReAM

Start at: 2020-02-18 23:00:48
End at: 2020-02-18 23:01:18
Local clock offset: -0.006 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.545 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph of Throughput vs Time](image1)

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

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

- Flow 1 (95th percentile 47.55 ms)
Run 4: Statistics of SCReAM

Start at: 2020-02-18 23:36:17
End at: 2020-02-18 23:36:47
Local clock offset: -0.098 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.333 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

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

Start at: 2020-02-19 00:11:36
End at: 2020-02-19 00:12:06
Local clock offset: -0.034 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.546 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2020-02-18 22:06:07
End at: 2020-02-18 22:06:37
Local clock offset: -0.064 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 50.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 50.069 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Throughput Graph](image1)

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

Start at: 2020-02-18 22:41:46
End at: 2020-02-18 22:42:16
Local clock offset: -0.052 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 9.67 Mbit/s
  95th percentile per-packet one-way delay: 48.063 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 9.67 Mbit/s
  95th percentile per-packet one-way delay: 48.063 ms
  Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 9.67 Mbit/s)
- Flow 1 egress (mean 9.67 Mbit/s)
Run 3: Statistics of Sprout

Start at: 2020-02-18 23:17:01
End at: 2020-02-18 23:17:31
Local clock offset: -0.402 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.938 ms
Loss rate: 0.00%
Run 4: Statistics of Sprout

Start at: 2020-02-18 23:52:16
End at: 2020-02-18 23:52:46
Local clock offset: -0.039 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 51.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 51.196 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 8.12 Mbit/s)
  - Flow 1 egress (mean 8.12 Mbit/s)

- **Packet Delay (ms)**
  - Flow 1 (95th percentile 51.20 ms)
Run 5: Statistics of Sprout

Start at: 2020-02-19 00:28:06
End at: 2020-02-19 00:28:36
Local clock offset: -0.054 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-02-19 03:11:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 8.78 Mbit/s
  95th percentile per-packet one-way delay: 46.791 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 8.78 Mbit/s
  95th percentile per-packet one-way delay: 46.791 ms
  Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

![Graph showing throughput and delay over time]
Run 1: Statistics of TaoVA-100x

Start at: 2020-02-18 22:07:15
End at: 2020-02-18 22:07:45
Local clock offset: -0.04 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-02-19 03:14:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.17 Mbit/s
95th percentile per-packet one-way delay: 48.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 253.17 Mbit/s
95th percentile per-packet one-way delay: 48.204 ms
Loss rate: 0.00%
Run 2: Statistics of TaoVA-100x

End at: 2020-02-18 22:43:25
Local clock offset: -0.056 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2020-02-19 03:14:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.12 Mbit/s
95th percentile per-packet one-way delay: 47.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.12 Mbit/s
95th percentile per-packet one-way delay: 47.964 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2020-02-18 23:18:10  
End at: 2020-02-18 23:18:40  
Local clock offset: -0.068 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2020-02-19 03:14:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 245.30 Mbit/s  
95th percentile per-packet one-way delay: 47.072 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 245.30 Mbit/s  
95th percentile per-packet one-way delay: 47.072 ms  
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

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

*Legend:* Flow 1 ingress (mean 245.29 Mbit/s), Flow 1 egress (mean 245.30 Mbit/s)

![Graph 2: Per-packet one-way delay over time.]

*Legend:* Flow 1 (95th percentile 47.07 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2020-02-18 23:53:25
End at: 2020-02-18 23:53:55
Local clock offset: -0.068 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2020-02-19 03:15:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 241.41 Mbit/s
  95th percentile per-packet one-way delay: 47.592 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 241.41 Mbit/s
  95th percentile per-packet one-way delay: 47.592 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 241.40 Mbit/s)  Flow 1 egress (mean 241.41 Mbit/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 47.59 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2020-02-19 00:29:15
End at: 2020-02-19 00:29:45
Local clock offset: -0.059 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-02-19 03:17:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.08 Mbit/s
95th percentile per-packet one-way delay: 47.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 252.08 Mbit/s
95th percentile per-packet one-way delay: 47.510 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2020-02-18 22:01:36
End at: 2020-02-18 22:02:06
Local clock offset: -0.024 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-02-19 03:17:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.18 Mbit/s
95th percentile per-packet one-way delay: 47.875 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 365.18 Mbit/s
95th percentile per-packet one-way delay: 47.875 ms
Loss rate: 0.06%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2020-02-18 22:37:04
End at: 2020-02-18 22:37:34
Local clock offset: -0.024 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-02-19 03:21:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.22 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 521.22 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 521.23 Mb/s)
- Flow 1 egress (mean 521.22 Mb/s)

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

- Flow 1 (95th percentile 50.95 ms)
Run 3: Statistics of TCP Vegas

Start at: 2020-02-18 23:12:36
End at: 2020-02-18 23:13:06
Local clock offset: -0.049 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2020-02-19 03:21:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.75 Mbit/s
95th percentile per-packet one-way delay: 46.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.75 Mbit/s
95th percentile per-packet one-way delay: 46.690 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2020-02-18 23:47:57
End at: 2020-02-18 23:48:27
Local clock offset: -0.051 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2020-02-19 03:21:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 51.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 51.561 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2020-02-19 00:23:22
End at: 2020-02-19 00:23:52
Local clock offset: -0.038 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2020-02-19 03:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.48 Mbit/s
95th percentile per-packet one-way delay: 66.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 538.48 Mbit/s
95th percentile per-packet one-way delay: 66.251 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2020-02-18 22:00:08
End at: 2020-02-18 22:00:38
Local clock offset: 0.038 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2020-02-19 03:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.53 Mbit/s
95th percentile per-packet one-way delay: 122.138 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 214.53 Mbit/s
95th percentile per-packet one-way delay: 122.138 ms
Loss rate: 0.45%
Run 1: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 215.50 Mbit/s)**
- **Flow 1 egress (mean 214.53 Mbit/s)**

![Chart 2: Packet delay (ms) over time](image2)

- **Flow 1 (95th percentile 122.14 ms)**
Run 2: Statistics of Verus

Start at: 2020-02-18 22:35:40
End at: 2020-02-18 22:36:10
Local clock offset: -0.085 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2020-02-19 03:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.94 Mbit/s
95th percentile per-packet one-way delay: 98.575 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 178.94 Mbit/s
95th percentile per-packet one-way delay: 98.575 ms
Loss rate: 0.23%
Run 2: Report of Verus — Data Link

![Graph of network traffic and packet delay over time.]

- Flow 1 ingress (mean 179.33 Mbit/s)
- Flow 1 egress (mean 178.94 Mbit/s)

- Flow 1 (95th percentile 98.58 ms)
Run 3: Statistics of Verus

Start at: 2020-02-18 23:11:12
End at: 2020-02-18 23:11:42
Local clock offset: -0.024 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2020-02-19 03:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.66 Mbit/s
95th percentile per-packet one-way delay: 80.448 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 169.66 Mbit/s
95th percentile per-packet one-way delay: 80.448 ms
Loss rate: 0.12%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2020-02-18 23:46:32
End at: 2020-02-18 23:47:02
Local clock offset: -0.093 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2020-02-19 03:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.49 Mbit/s
95th percentile per-packet one-way delay: 100.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.49 Mbit/s
95th percentile per-packet one-way delay: 100.938 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

Graph 1: Throughput (Mbps) over time (s)
- Flow 1 ingress (mean 181.53 Mbit/s)
- Flow 1 egress (mean 181.49 Mbit/s)

Graph 2: Per packet one way delay (ms) over time (s)
- Flow 1 (95th percentile 100.94 ms)
Run 5: Statistics of Verus

Start at: 2020-02-19 00:21:57
End at: 2020-02-19 00:22:27
Local clock offset: -0.046 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-02-19 03:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.46 Mbit/s
95th percentile per-packet one-way delay: 124.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.46 Mbit/s
95th percentile per-packet one-way delay: 124.826 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

![Graph 1: Throughput (Mbps) vs Time (s)]
- Flow 1 ingress (mean 195.80 Mbit/s)
- Flow 1 egress (mean 195.46 Mbit/s)

![Graph 2: Per packet one way delay (ms) vs Time (s)]
- Flow 1 (95th percentile 124.83 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2020-02-18 21:43:24
End at: 2020-02-18 21:43:54
Local clock offset: -0.076 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2020-02-19 03:26:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 402.22 Mbit/s
  95th percentile per-packet one-way delay: 49.341 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 402.22 Mbit/s
  95th percentile per-packet one-way delay: 49.341 ms
  Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2020-02-18 22:19:05
End at: 2020-02-18 22:19:35
Local clock offset: -0.071 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2020-02-19 03:26:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.81 Mbit/s
95th percentile per-packet one-way delay: 64.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 289.81 Mbit/s
95th percentile per-packet one-way delay: 64.431 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

![Graphs showing network performance metrics over time: throughput and packet round-trip delay.]
Run 3: Statistics of PCC-Vivace

Start at: 2020-02-18 22:54:39
End at: 2020-02-18 22:55:09
Local clock offset: -0.018 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2020-02-19 03:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.84 Mbit/s
95th percentile per-packet one-way delay: 73.226 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 341.84 Mbit/s
95th percentile per-packet one-way delay: 73.226 ms
Loss rate: 0.01%
Run 3: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 341.83 Mbit/s)
- Flow 1 egress (mean 341.84 Mbit/s)

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

- Flow 1 (95th percentile 73.23 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2020-02-18 23:30:02
End at: 2020-02-18 23:30:32
Local clock offset: -0.094 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2020-02-19 03:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.30 Mbit/s
95th percentile per-packet one-way delay: 50.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 324.30 Mbit/s
95th percentile per-packet one-way delay: 50.618 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 324.28 Mbit/s)**
- **Flow 1 egress (mean 324.30 Mbit/s)**

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

- **Flow 1 (95th percentile 50.62 ms)**
Run 5: Statistics of PCC-Vivace

Start at: 2020-02-19 00:05:23
End at: 2020-02-19 00:05:54
Local clock offset: -0.022 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 03:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.16 Mbit/s
95th percentile per-packet one-way delay: 52.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 367.16 Mbit/s
95th percentile per-packet one-way delay: 52.186 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2020-02-18 21:42:16
End at: 2020-02-18 21:42:46
Local clock offset: -0.019 ms
Remote clock offset: 0.011 ms
Run 1: Report of WebRTC media — Data Link

---

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

- **Flow 1 ingress (mean 0.10 Mbit/s)**
- **Flow 1 egress (mean 0.10 Mbit/s)**

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

- **Flow 1 (95th percentile 50.63 ms)**
Run 2: Statistics of WebRTC media

Start at: 2020-02-18 22:17:57  
End at: 2020-02-18 22:18:27  
Local clock offset: -0.102 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-02-19 03:27:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.878 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.878 ms  
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

---

### Throughput (Mbit/s)

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

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

- **Flow 1 (95th percentile 47.88 ms)**
Run 3: Statistics of WebRTC media

Start at: 2020-02-18 22:53:31
End at: 2020-02-18 22:54:01
Local clock offset: -0.038 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-02-19 03:27:48
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 50.247 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 50.247 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2020-02-18 23:28:55
End at: 2020-02-18 23:29:25
Local clock offset: -0.075 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-02-19 03:27:48
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.764 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.764 ms
  Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput over time for different flows.]

![Graph showing packet delay over time for a specific flow.]
Run 5: Statistics of WebRTC media

Start at: 2020-02-19 00:04:16
End at: 2020-02-19 00:04:46
Local clock offset: -0.083 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-02-19 03:27:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.097 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

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

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

- **Flow 1 (95th percentile 47.10 ms)**