Pantheon Report

Generated at 2019-12-12 08:44:33 (UTC).
Data path: GCE Sydney on ens4 (local) → GCE Tokyo 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 5.0.0-1025-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 @ de42328552b776a75a932a94dfafdf722537b0ec
third_party/fil1p @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fil1p-sheep @ 0e5bb722943babcd2b090d2c64fc4d5e12e923f9
third_party/genericCC @ d0153f8e594aa89e99b032143cedbfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38c4dfe0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaa4a906ce6bb7tf3cf
third_party/muses @ 5ce721187ad823da20965337730c746486ca4966
third_party/muses_dtree @ 3b7225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f5827af942717625ee3a354cc2e802bd
third_party/pcc @ 1af958fa0d66d18b623c091a55f8ce872b4981e1
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 @ 77961ff1a82733a86b42f1bc8143ebc978f3ccf42
third_party/scream-reproduce @ f09911d1421aa3131bf11ff1964974e1da3dab2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c678b01e3d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ 4b447ea74c6c60a261149af26295625939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf862111435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Sydney to GCE Tokyo, 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>651.74</td>
<td>142.13</td>
<td>1.86</td>
</tr>
<tr>
<td>Copa</td>
<td>5</td>
<td>318.33</td>
<td>72.83</td>
<td>0.00</td>
</tr>
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<td>TCP Cubic</td>
<td>5</td>
<td>467.34</td>
<td>109.37</td>
<td>0.04</td>
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<td>FillP</td>
<td>5</td>
<td>878.89</td>
<td>99.07</td>
<td>0.64</td>
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<td>FillP-Sheep</td>
<td>5</td>
<td>873.12</td>
<td>87.84</td>
<td>0.10</td>
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<td>Indigo</td>
<td>5</td>
<td>224.02</td>
<td>59.46</td>
<td>0.00</td>
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<td>Indigo-MusesC3</td>
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<td>554.66</td>
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<td>82.89</td>
<td>0.07</td>
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<td>Indigo-MusesD</td>
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<td>508.06</td>
<td>79.88</td>
<td>0.00</td>
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<td>Indigo-MusesT</td>
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<td>605.73</td>
<td>77.12</td>
<td>0.03</td>
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<td>28.05</td>
<td>58.28</td>
<td>0.00</td>
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<td>571.73</td>
<td>76.43</td>
<td>0.01</td>
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<td>86.07</td>
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<td>71.96</td>
<td>0.00</td>
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<td>5</td>
<td>405.08</td>
<td>185.08</td>
<td>5.08</td>
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<td>PCC-Expr</td>
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<td>295.84</td>
<td>129.26</td>
<td>1.59</td>
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<td>QUIC Cubic</td>
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<td>66.32</td>
<td>56.93</td>
<td>0.00</td>
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<td>SCReAM</td>
<td>5</td>
<td>0.22</td>
<td>57.69</td>
<td>0.03</td>
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<td>Sprout</td>
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<td>7.58</td>
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<td>57.69</td>
<td>0.00</td>
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<td>TCP Vegas</td>
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<td>430.58</td>
<td>59.60</td>
<td>0.01</td>
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<td>Verus</td>
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<td>141.42</td>
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<td>79.36</td>
<td>0.02</td>
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<td>WebRTC media</td>
<td>4</td>
<td>0.59</td>
<td>56.95</td>
<td>0.01</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2019-12-12 03:38:34
End at: 2019-12-12 03:39:04
Local clock offset: 0.171 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-12-12 06:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.83 Mbit/s
95th percentile per-packet one-way delay: 175.657 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 577.83 Mbit/s
95th percentile per-packet one-way delay: 175.657 ms
Loss rate: 3.07%
Run 1: Report of TCP BBR — Data Link

![Graph showing throughput over time for flow 1 ingress and egress with mean values.]
Run 2: Statistics of TCP BBR

Start at: 2019-12-12 04:13:52
End at: 2019-12-12 04:14:22
Local clock offset: 0.342 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-12-12 06:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 682.25 Mbit/s
95th percentile per-packet one-way delay: 134.981 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 682.25 Mbit/s
95th percentile per-packet one-way delay: 134.981 ms
Loss rate: 1.44%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2019-12-12 04:49:15
End at: 2019-12-12 04:49:45
Local clock offset: 0.651 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-12-12 06:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 720.57 Mbit/s
95th percentile per-packet one-way delay: 133.609 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 720.57 Mbit/s
95th percentile per-packet one-way delay: 133.609 ms
Loss rate: 1.01%
Run 3: Report of TCP BBR — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)

Flow 1 ingress (mean 727.89 Mbit/s)  Flow 1 egress (mean 720.57 Mbit/s)
Flow 1 (95th percentile 133.61 ms)
Run 4: Statistics of TCP BBR

Start at: 2019-12-12 05:24:25
End at: 2019-12-12 05:24:56
Local clock offset: -0.145 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-12-12 06:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.72 Mbit/s
95th percentile per-packet one-way delay: 176.983 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 593.72 Mbit/s
95th percentile per-packet one-way delay: 176.983 ms
Loss rate: 3.60%
Run 4: Report of TCP BBR — Data Link

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

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

Legend:
- Flow 1 ingress (mean 615.90 Mbit/s)
- Flow 1 egress (mean 593.72 Mbit/s)

- Flow 1 (95th percentile 176.98 ms)
Run 5: Statistics of TCP BBR

Start at: 2019-12-12 05:59:48
End at: 2019-12-12 06:00:18
Local clock offset: -0.138 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-12-12 06:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 684.33 Mbit/s
95th percentile per-packet one-way delay: 89.406 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 684.33 Mbit/s
95th percentile per-packet one-way delay: 89.406 ms
Loss rate: 0.16%
Run 5: Report of TCP BBR — Data Link

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

Start at: 2019-12-12 03:21:43
End at: 2019-12-12 03:22:13
Local clock offset: 0.098 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-12-12 06:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.73 Mbit/s
95th percentile per-packet one-way delay: 72.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.73 Mbit/s
95th percentile per-packet one-way delay: 72.885 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 346.72 Mbit/s)**
- **Flow 1 egress (mean 346.73 Mbit/s)**

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

- **Flow 1 (95th percentile 72.89 ms)**
Run 2: Statistics of Copa

Start at: 2019-12-12 03:57:02
End at: 2019-12-12 03:57:32
Local clock offset: 0.229 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-12-12 06:34:23
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 288.37 Mbit/s
  95th percentile per-packet one-way delay: 72.527 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 288.37 Mbit/s
  95th percentile per-packet one-way delay: 72.527 ms
  Loss rate: 0.00%
Run 2: Report of Copa — Data Link

![Throughput Graph]

- **Flow 1 ingress** (mean 288.36 Mbit/s)
- **Flow 1 egress** (mean 288.37 Mbit/s)

![Ping Delay Graph]

- **Flow 1** (95th percentile 72.53 ms)
Run 3: Statistics of Copa

Start at: 2019-12-12 04:32:30
End at: 2019-12-12 04:33:00
Local clock offset: 0.431 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-12-12 06:34:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.73 Mbit/s
95th percentile per-packet one-way delay: 69.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 310.73 Mbit/s
95th percentile per-packet one-way delay: 69.605 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

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

- Dashed line: Flow 1 ingress (mean 310.72 Mbps)
- Solid line: Flow 1 egress (mean 310.73 Mbps)

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

- Line: Flow 1 (95th percentile 69.61 ms)
Run 4: Statistics of Copa

Start at: 2019-12-12 05:07:18
End at: 2019-12-12 05:07:48
Local clock offset: 0.087 ms
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-12-12 06:44:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.92 Mbit/s
95th percentile per-packet one-way delay: 71.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 325.92 Mbit/s
95th percentile per-packet one-way delay: 71.607 ms
Loss rate: 0.00%
Run 5: Statistics of Copa

Start at: 2019-12-12 05:42:53
End at: 2019-12-12 05:43:23
Local clock offset: ~0.123 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-12-12 06:44:35
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 319.89 Mbit/s
  95th percentile per-packet one-way delay: 77.538 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 319.89 Mbit/s
  95th percentile per-packet one-way delay: 77.538 ms
  Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 319.88 Mbps)**
- **Flow 1 egress (mean 319.89 Mbps)**

![Graph 2: Per packet one way delay (ms)]
Run 1: Statistics of TCP Cubic

Start at: 2019-12-12 03:34:07
End at: 2019-12-12 03:34:37
Local clock offset: 0.137 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-12-12 06:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.10 Mbit/s
95th percentile per-packet one-way delay: 59.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 409.10 Mbit/s
95th percentile per-packet one-way delay: 59.271 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

![Graph showing throughput in bits per second over time for two flows: ingress and egress.](image1)

![Graph showing per-packet one-way delay over time for Flow 1.](image2)

*Flow 1 (95th percentile 59.27 ms)*
Run 2: Statistics of TCP Cubic

Start at: 2019-12-12 04:09:21
End at: 2019-12-12 04:09:51
Local clock offset: 0.331 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-12-12 06:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.08 Mbit/s
95th percentile per-packet one-way delay: 95.182 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 470.08 Mbit/s
95th percentile per-packet one-way delay: 95.182 ms
Loss rate: 0.04%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2019-12-12 04:44:44
End at: 2019-12-12 04:45:14
Local clock offset: 0.587 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-12-12 06:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 442.29 Mbit/s
95th percentile per-packet one-way delay: 148.979 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 442.29 Mbit/s
95th percentile per-packet one-way delay: 148.979 ms
Loss rate: 0.14%
Run 3: Report of TCP Cubic — Data Link

![Graph of throughput and one-way delay over time for Flow 1 with ingress and egress mean bandwidth of 442.87 Mbit/s and 442.29 Mbit/s respectively.](image)
Run 4: Statistics of TCP Cubic

Start at: 2019-12-12 05:19:47
End at: 2019-12-12 05:20:17
Local clock offset: -0.137 ms
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2019-12-12 06:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 527.45 Mbit/s
95th percentile per-packet one-way delay: 121.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 527.45 Mbit/s
95th percentile per-packet one-way delay: 121.986 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 527.46 Mbit/s)
- Flow 1 egress (mean 527.45 Mbit/s)

Per-packet one-way delay (ms)
Run 5: Statistics of TCP Cubic

Start at: 2019-12-12 05:55:19
End at: 2019-12-12 05:55:49
Local clock offset: 0.172 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-12-12 06:45:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.79 Mbit/s
95th percentile per-packet one-way delay: 121.409 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 487.79 Mbit/s
95th percentile per-packet one-way delay: 121.409 ms
Loss rate: 0.04%
Run 5: Report of TCP Cubic — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 487.99 Mbit/s)
- Flow 1 egress (mean 487.99 Mbit/s)

![Packet Delay Graph]

- Flow 1 (95th percentile 121.41 ms)
Run 1: Statistics of FillP

Start at: 2019-12-12 03:26:27
End at: 2019-12-12 03:26:57
Local clock offset: 0.133 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-12-12 06:54:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.96 Mbit/s
95th percentile per-packet one-way delay: 125.190 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 838.96 Mbit/s
95th percentile per-packet one-way delay: 125.190 ms
Loss rate: 1.92%
Run 1: Report of FillP — Data Link

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

Legend:
- Flow 1 Ingress (mean 855.31 Mbit/s)
- Flow 1 Egress (mean 838.96 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 125.19 ms)
Run 2: Statistics of FillP

Start at: 2019-12-12 04:01:43
End at: 2019-12-12 04:02:13
Local clock offset: 0.292 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-12-12 07:01:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 818.43 Mbit/s
95th percentile per-packet one-way delay: 119.045 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 818.43 Mbit/s
95th percentile per-packet one-way delay: 119.045 ms
Loss rate: 1.20%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2019-12-12 04:37:05
End at: 2019-12-12 04:37:35
Local clock offset: 0.45 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-12-12 07:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 898.38 Mbit/s
95th percentile per-packet one-way delay: 101.138 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 898.38 Mbit/s
95th percentile per-packet one-way delay: 101.138 ms
Loss rate: 0.08%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2019-12-12 05:12:04
End at: 2019-12-12 05:12:34
Local clock offset: -0.038 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-12-12 07:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 936.37 Mbit/s
95th percentile per-packet one-way delay: 67.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 936.37 Mbit/s
95th percentile per-packet one-way delay: 67.103 ms
Loss rate: 0.00%
Run 4: Report of FillP — Data Link
Run 5: Statistics of F11P

Start at: 2019-12-12 05:47:37
End at: 2019-12-12 05:48:07
Local clock offset: -0.097 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-12-12 07:07:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 902.32 Mbit/s
95th percentile per-packet one-way delay: 82.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 902.32 Mbit/s
95th percentile per-packet one-way delay: 82.863 ms
Loss rate: 0.00%
Run 5: Report of FillP — Data Link
Run 1: Statistics of FillP-Sheep

Start at: 2019-12-12 03:29:48
End at: 2019-12-12 03:30:18
Local clock offset: 0.16 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-12-12 07:07:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 899.72 Mbit/s
95th percentile per-packet one-way delay: 90.084 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 899.72 Mbit/s
95th percentile per-packet one-way delay: 90.084 ms
Loss rate: 0.08%
Run 1: Report of FillP-Sheep — Data Link

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

- Flow 1 ingress (mean 900.41 Mbit/s)
- Flow 1 egress (mean 899.72 Mbit/s)
Run 2: Statistics of FillP-Sheep

Start at: 2019-12-12 04:04:59
End at: 2019-12-12 04:05:29
Local clock offset: 0.291 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-12-12 07:07:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 869.92 Mbit/s
95th percentile per-packet one-way delay: 98.351 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 869.92 Mbit/s
95th percentile per-packet one-way delay: 98.351 ms
Loss rate: 0.11%
Run 2: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress** (mean 870.88 Mb/s)
- **Flow 1 egress** (mean 869.92 Mb/s)

![Graph showing packet delay distribution over time.]

- **Flow 1** (95th percentile 98.35 ms)
Run 3: Statistics of FillP-Sheep

Start at: 2019-12-12 04:40:20
End at: 2019-12-12 04:40:50
Local clock offset: 0.534 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-12-12 07:07:39
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 898.92 Mbit/s
  95th percentile per-packet one-way delay: 66.766 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 898.92 Mbit/s
  95th percentile per-packet one-way delay: 66.766 ms
  Loss rate: 0.00%
Run 3: Report of FillP-Sheep — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 898.91 Mbit/s)
- Flow 1 egress (mean 898.92 Mbit/s)

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

- Flow 1 (95th percentile 66.77 ms)
Run 4: Statistics of FillP-Sheep

Start at: 2019-12-12 05:15:23
End at: 2019-12-12 05:15:53
Local clock offset: -0.035 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-12-12 07:17:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 852.38 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 852.38 Mbit/s
95th percentile per-packet one-way delay: 86.128 ms
Loss rate: 0.16%
Run 5: Statistics of FillP-Sheep

Start at: 2019-12-12 05:50:56  
End at: 2019-12-12 05:51:26  
Local clock offset: -0.074 ms  
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-12-12 07:21:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 844.66 Mbit/s  
95th percentile per-packet one-way delay: 97.896 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 844.66 Mbit/s  
95th percentile per-packet one-way delay: 97.896 ms  
Loss rate: 0.15%
Run 5: Report of FillP-Sheep — Data Link
Run 1: Statistics of Indigo

Start at: 2019-12-12 03:08:33
End at: 2019-12-12 03:09:03
Local clock offset: 0.058 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-12-12 07:21:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 222.20 Mbit/s
  95th percentile per-packet one-way delay: 61.941 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 222.20 Mbit/s
  95th percentile per-packet one-way delay: 61.941 ms
  Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

![Graph of throughput over time with legend: Flow 1 ingress (mean 222.20 Mbit/s) and Flow 1 egress (mean 222.20 Mbit/s).]

![Graph of packet one-way delay over time with legend: Flow 1 (95th percentile 61.94 ms).]

56
Run 2: Statistics of Indigo

Start at: 2019-12-12 03:43:59
End at: 2019-12-12 03:44:29
Local clock offset: 0.405 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-12-12 07:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.30 Mbit/s
95th percentile per-packet one-way delay: 57.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.30 Mbit/s
95th percentile per-packet one-way delay: 57.520 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2019-12-12 04:19:23
End at: 2019-12-12 04:19:53
Local clock offset: 0.365 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-12-12 07:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.21 Mbit/s
95th percentile per-packet one-way delay: 60.351 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.21 Mbit/s
95th percentile per-packet one-way delay: 60.351 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2019-12-12 04:54:43
End at: 2019-12-12 04:55:13
Local clock offset: 0.647 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-12-12 07:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.01 Mbit/s
95th percentile per-packet one-way delay: 58.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.01 Mbit/s
95th percentile per-packet one-way delay: 58.258 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 219.00 Mbit/s)  |  Flow 1 egress (mean 219.01 Mbit/s)

Packet drop rate delay (ms)

Flow 1 (95th percentile 58.26 ms)
Run 5: Statistics of Indigo

Start at: 2019-12-12 05:29:51
End at: 2019-12-12 05:30:21
Local clock offset: -0.16 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-12-12 07:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.37 Mbit/s
95th percentile per-packet one-way delay: 59.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.37 Mbit/s
95th percentile per-packet one-way delay: 59.254 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 217.38 Mbit/s)**
- **Flow 1 egress (mean 217.37 Mbit/s)**

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

- **Flow 1 (95th percentile 59.25 ms)**
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-12-12 03:20:09
End at: 2019-12-12 03:20:39
Local clock offset: 0.121 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-12-12 07:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.34 Mbit/s
95th percentile per-packet one-way delay: 70.701 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 578.34 Mbit/s
95th percentile per-packet one-way delay: 70.701 ms
Loss rate: 0.03%
Run 1: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1 ingress** (mean 578.54 Mbit/s)
- **Flow 1 egress** (mean 578.34 Mbit/s)

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

- **Flow 1** (95th percentile 70.70 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-12 03:55:30
End at: 2019-12-12 03:56:00
Local clock offset: 0.231 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-12-12 07:24:34
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 554.53 Mbit/s
  95th percentile per-packet one-way delay: 91.288 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 554.53 Mbit/s
  95th percentile per-packet one-way delay: 91.288 ms
  Loss rate: 0.00%
Run 2: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 554.51 Mbps)
- Flow 1 egress (mean 554.53 Mbps)

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

- Flow 1 (95th percentile 91.29 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-12 04:30:56
End at: 2019-12-12 04:31:26
Local clock offset: 0.439 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-12-12 07:27:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 61.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 61.713 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-12 05:05:47
End at: 2019-12-12 05:06:17
Local clock offset: 0.087 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-12-12 07:27:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 523.08 Mbit/s
95th percentile per-packet one-way delay: 84.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 523.08 Mbit/s
95th percentile per-packet one-way delay: 84.105 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph showing throughput and per-packet delay over time](image-url)
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-12 05:41:20
End at: 2019-12-12 05:41:50
Local clock offset: -0.125 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-12-12 07:27:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.84 Mbit/s
95th percentile per-packet one-way delay: 72.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 548.84 Mbit/s
95th percentile per-packet one-way delay: 72.786 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link

![Graph showing network throughput and delay over time]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 548.82 Mbps)
  - Flow 1 egress (mean 548.84 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 72.79 ms)
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-12 03:18:32
End at: 2019-12-12 03:19:02
Local clock offset: 0.098 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-12-12 07:28:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 626.13 Mbit/s
95th percentile per-packet one-way delay: 71.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 626.13 Mbit/s
95th percentile per-packet one-way delay: 71.783 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and packet delay over time for two flows with different rates.]

- **Flow 1 ingress (mean 626.11 Mbit/s)**
- **Flow 1 egress (mean 626.13 Mbit/s)**

**Throughput (Mb/s)**

**Time (s)**

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

- **Flow 1 (95th percentile 71.78 ms)**
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-12 03:53:56
End at: 2019-12-12 03:54:26
Local clock offset: 0.267 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-12-12 07:28:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.11 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 579.11 Mbit/s
95th percentile per-packet one-way delay: 104.365 ms
Loss rate: 0.05%
Run 2: Report of Indigo-MusesC5 — Data Link

![Throughput](image)

- Flow 1 ingress (mean 579.41 Mbit/s)
- Flow 1 egress (mean 579.11 Mbit/s)

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

- Flow 1 (95th percentile 104.36 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-12 04:29:21
End at: 2019-12-12 04:29:51
Local clock offset: 0.463 ms
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2019-12-12 07:31:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 584.50 Mbit/s
95th percentile per-packet one-way delay: 98.709 ms
Loss rate: 0.26%
Run 3: Report of Indigo-MusesC5 — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-12 05:04:11
End at: 2019-12-12 05:04:41
Local clock offset: 0.146 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-12-12 07:34:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.66 Mbit/s
95th percentile per-packet one-way delay: 72.774 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 604.66 Mbit/s
95th percentile per-packet one-way delay: 72.774 ms
Loss rate: 0.01%
Run 4: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress data.]
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-12 05:39:45
End at: 2019-12-12 05:40:15
Local clock offset: -0.127 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2019-12-12 07:37:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.16 Mbit/s
95th percentile per-packet one-way delay: 66.824 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 607.16 Mbit/s
95th percentile per-packet one-way delay: 66.824 ms
Loss rate: 0.01%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-12 03:04:56
End at: 2019-12-12 03:05:26
Local clock offset: 0.12 ms
Remote clock offset: -0.12 ms
Run 1: Report of Indigo-MusesD — Data Link

![Throughput Graph](image1)

- **Flow 1 ingress (mean 482.30 Mbit/s)**
- **Flow 1 egress (mean 482.30 Mbit/s)**

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

- **Flow 1 (95th percentile: 76.86 ms)**
Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-12 03:40:08
End at: 2019-12-12 03:40:39
Local clock offset: 0.154 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2019-12-12 07:37:47
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 515.85 Mbit/s
  95th percentile per-packet one-way delay: 97.594 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 515.85 Mbit/s
  95th percentile per-packet one-way delay: 97.594 ms
  Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 515.83 Mbit/s)  Flow 1 egress (mean 515.85 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 97.59 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-12 04:15:31
End at: 2019-12-12 04:16:01
Local clock offset: 0.326 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-12-12 07:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.46 Mbit/s
95th percentile per-packet one-way delay: 75.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 546.46 Mbit/s
95th percentile per-packet one-way delay: 75.582 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 546.44 Mbit/s)

Flow 1 egress (mean 546.46 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 75.58 ms)
Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-12 04:50:53
End at: 2019-12-12 04:51:23
Local clock offset: 0.637 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-12-12 07:38:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.99 Mbit/s
95th percentile per-packet one-way delay: 83.677 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 471.99 Mbit/s
95th percentile per-packet one-way delay: 83.677 ms
Loss rate: 0.01%
Run 4: Report of Indigo-MusesD — Data Link

[Graph showing throughput and packet delay over time with labels for flow ingress and egress]

92
Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-12 05:26:00
End at: 2019-12-12 05:26:30
Local clock offset: -0.183 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-12-12 07:38:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.96 Mbit/s
95th percentile per-packet one-way delay: 62.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 497.96 Mbit/s
95th percentile per-packet one-way delay: 62.657 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

![Graph 1](image1.png)

- **Flow 1 ingress (mean 497.94 Mbit/s)**
- **Flow 1 egress (mean 497.96 Mbit/s)**

![Graph 2](image2.png)

- **Flow 1 (95th percentile 62.66 ms)**
Run 1: Statistics of Indigo-MuseST

Start at: 2019-12-12 03:36:58
End at: 2019-12-12 03:37:28
Local clock offset: 0.144 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2019-12-12 07:43:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 625.37 Mbit/s
95th percentile per-packet one-way delay: 70.188 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 625.37 Mbit/s
95th percentile per-packet one-way delay: 70.188 ms
Loss rate: 0.02%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 625.41 Mbit/s)
- Flow 1 egress (mean 625.37 Mbit/s)

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

- Flow 1 (95th percentile 70.19 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-12 04:12:16
End at: 2019-12-12 04:12:46
Local clock offset: 0.32 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-12-12 07:44:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.98 Mbit/s
95th percentile per-packet one-way delay: 67.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 621.98 Mbit/s
95th percentile per-packet one-way delay: 67.553 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesT — Data Link
Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-12 04:47:38
End at: 2019-12-12 04:48:08
Local clock offset: 0.565 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-12-12 07:46:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 626.31 Mbit/s
95th percentile per-packet one-way delay: 93.104 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 626.31 Mbit/s
95th percentile per-packet one-way delay: 93.104 ms
Loss rate: 0.15%
Run 3: Report of Indigo-MusesT — Data Link

![Throughput Graph](image1)

**Throughput (Mbps)**

Time (s)

---

**Flow 1 ingress (mean 627.14 Mbps)**

**Flow 1 egress (mean 626.31 Mbps)**

---

![Packet Delay Graph](image2)

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

Time (s)

---

**Flow 1 (95th percentile 93.10 ms)**
Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-12 05:22:49
End at: 2019-12-12 05:23:19
Local clock offset: -0.139 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.42 Mbit/s
95th percentile per-packet one-way delay: 93.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 611.42 Mbit/s
95th percentile per-packet one-way delay: 93.023 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 611.40 Mbit/s) vs. Flow 1 egress (mean 611.42 Mbit/s)
- Flow 1 (95th percentile 93.02 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-12 05:58:15
End at: 2019-12-12 05:58:45
Local clock offset: -0.102 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.59 Mbit/s
95th percentile per-packet one-way delay: 61.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 543.59 Mbit/s
95th percentile per-packet one-way delay: 61.727 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesT — Data Link

---

**Graph 1:**
Throughput (Mbits)

- **Flow 1 ingress (mean 543.58 Mbit/s)**
- **Flow 1 egress (mean 543.59 Mbit/s)**

**Graph 2:**
Per-packet one-way delay (ms)

- **Flow 1 (95th percentile 61.73 ms)**
Run 1: Statistics of LEDBAT

Start at: 2019-12-12 03:14:18
End at: 2019-12-12 03:14:48
Local clock offset: 0.113 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graphs showing network performance metrics over time](image-url)
Run 2: Statistics of LEDBAT

Start at: 2019-12-12 03:49:44
End at: 2019-12-12 03:50:14
Local clock offset: 0.21 ms
Remote clock offset: -0.283 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

![Graph of Throughput vs. Time]

- Flow 1 ingress (mean 26.97 Mbit/s)
- Flow 1 egress (mean 26.97 Mbit/s)

![Graph of Packet Delay vs. Time]

- Flow 1 (95th percentile 57.47 ms)
Run 3: Statistics of LEDBAT

Start at: 2019-12-12 04:25:07
End at: 2019-12-12 04:25:37
Local clock offset: 0.365 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.67 Mbit/s
95th percentile per-packet one-way delay: 58.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.67 Mbit/s
95th percentile per-packet one-way delay: 58.369 ms
Loss rate: 0.00%
Run 4: Statistics of LEDBAT

Start at: 2019-12-12 05:00:23
End at: 2019-12-12 05:00:53
Local clock offset: 0.308 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 58.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 58.803 ms
Loss rate: 0.00%
Run 5: Statistics of LEDBAT

Start at: 2019-12-12 05:35:33
End at: 2019-12-12 05:36:03
Local clock offset: -0.101 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-12-12 07:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 58.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.59 Mbit/s
95th percentile per-packet one-way delay: 58.457 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-12 03:28:08
End at: 2019-12-12 03:28:38
Local clock offset: 0.171 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-12-12 07:54:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 669.20 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 669.20 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses_DecisionTree

Start at: 2019-12-12 04:03:23
End at: 2019-12-12 04:03:53
Local clock offset: 0.258 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-12-12 07:54:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 593.53 Mbit/s
95th percentile per-packet one-way delay: 83.666 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 593.53 Mbit/s
95th percentile per-packet one-way delay: 83.666 ms
Loss rate: 0.01%
Run 2: Report of Muses DecisionTree — Data Link

![Graph showing throughput and latency over time for Flow 1 ingress and egress.]
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-12-12 04:38:49
End at: 2019-12-12 04:39:19
Local clock offset: 0.475 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-12-12 07:54:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 81.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 493.23 Mbit/s
95th percentile per-packet one-way delay: 81.940 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-12-12 05:13:50
End at: 2019-12-12 05:14:20
Local clock offset: -0.04 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-12-12 07:54:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 520.38 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 520.38 Mbit/s
95th percentile per-packet one-way delay: 66.194 ms
Loss rate: 0.00%
Run 4: Report of Muses · DecisionTree — Data Link

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

- **Flow 1 ingress (mean 520.36 Mbit/s)**
- **Flow 1 egress (mean 520.38 Mbit/s)**

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

- **Flow 1 (95th percentile 66.19 ms)**
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-12-12 05:49:20
End at: 2019-12-12 05:49:50
Local clock offset: -0.07 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-12-12 07:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.32 Mbit/s
95th percentile per-packet one-way delay: 84.461 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 582.32 Mbit/s
95th percentile per-packet one-way delay: 84.461 ms
Loss rate: 0.04%
Run 5: Report of Muses_DecisionTree — Data Link

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

- Flow 1 ingress (mean 582.62 Mbit/s)
- Flow 1 egress (mean 582.32 Mbit/s)

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

- Flow 1 (95th percentile 84.46 ms)
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-12 03:16:59
End at: 2019-12-12 03:17:29
Local clock offset: 0.104 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-12-12 07:58:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.66 Mbit/s
95th percentile per-packet one-way delay: 82.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 537.66 Mbit/s
95th percentile per-packet one-way delay: 82.653 ms
Loss rate: 0.00%
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-12 03:52:24
End at: 2019-12-12 03:52:54
Local clock offset: 0.247 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-12-12 07:59:12
# Datalink statistics
# Total of 1 flow:
Average throughput: 499.52 Mbit/s
95th percentile per-packet one-way delay: 108.114 ms
Loss rate: 0.07%

# Flow 1:
Average throughput: 499.52 Mbit/s
95th percentile per-packet one-way delay: 108.114 ms
Loss rate: 0.07%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-12 04:27:48
End at: 2019-12-12 04:28:18
Local clock offset: 0.436 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-12-12 08:00:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 544.66 Mbit/s
95th percentile per-packet one-way delay: 79.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 544.66 Mbit/s
95th percentile per-packet one-way delay: 79.638 ms
Loss rate: 0.00%
Run 3: Report of Muses. DecisionTreeH0 — Data Link

---

**Throughput (Mbps)**

- Flow 1 ingress (mean 544.65 Mbps)
- Flow 1 egress (mean 544.66 Mbps)

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

- Flow 1 (95th percentile 79.64 ms)
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-12 05:03:03  
End at: 2019-12-12 05:03:33  
Local clock offset: 0.167 ms  
Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2019-12-12 08:00:18  
# Datalink statistics
-- Total of 1 flow:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 57.252 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 57.252 ms  
Loss rate: 0.00%
Run 4: Report of Muses DecisionTreeH0 — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 0.19 Mbit/s)
- Flow 1 egress (mean 0.19 Mbit/s)

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

- Flow 1 (95th percentile 57.25 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-12-12 05:38:13
End at: 2019-12-12 05:38:43
Local clock offset: -0.127 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-12-12 08:01:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.70 Mbit/s
95th percentile per-packet one-way delay: 102.683 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 489.70 Mbit/s
95th percentile per-packet one-way delay: 102.683 ms
Loss rate: 0.28%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 491.05 Mbit/s)
- Flow 1 egress (mean 489.70 Mbit/s)

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

- Flow 1 (95th percentile 102.68 ms)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-12 03:23:21
End at: 2019-12-12 03:23:51
Local clock offset: 0.053 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-12-12 08:05:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.42 Mbit/s
95th percentile per-packet one-way delay: 80.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 564.42 Mbit/s
95th percentile per-packet one-way delay: 80.057 ms
Loss rate: 0.00%
Run 1: Report of Muses DecisionTreeR0 — Data Link

![Graph of Throughput vs Time]

- Flow 1 ingress (mean 564.40 Mbit/s)
- Flow 1 egress (mean 564.42 Mbit/s)

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

- Flow 1 (95th percentile 80.06 ms)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-12 03:58:36
End at: 2019-12-12 03:59:06
Local clock offset: 0.619 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-12-12 08:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.02 Mbit/s
95th percentile per-packet one-way delay: 63.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 627.02 Mbit/s
95th percentile per-packet one-way delay: 63.089 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

![Graph of throughput vs time for Flow 1 ingress and egress](image1)

![Graph of per-packet delay vs time for Flow 1](image2)
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-12 04:34:06
End at: 2019-12-12 04:34:36
Local clock offset: 0.415 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-12-12 08:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.67 Mbit/s
95th percentile per-packet one-way delay: 65.320 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 583.67 Mbit/s
95th percentile per-packet one-way delay: 65.320 ms
Loss rate: 0.01%
Run 3: Report of Muses_DecisionTreeR0 — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 583.65 Mbit/s)**
- **Flow 1 egress (mean 583.67 Mbit/s)**

---

**Packet one way delay (ms)**

- **Flow 1 (95th percentile 65.32 ms)**
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-12 05:08:56  
End at: 2019-12-12 05:09:26  
Local clock offset: 0.022 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-12-12 08:08:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 592.93 Mbit/s  
95th percentile per-packet one-way delay: 75.843 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 592.93 Mbit/s  
95th percentile per-packet one-way delay: 75.843 ms  
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

![Graph showing throughput over time]

- Flow 1 ingress (mean 592.92 Mbit/s)
- Flow 1 egress (mean 592.93 Mbit/s)

![Graph showing per-packet delay over time]

- Flow 1 (95th percentile 75.84 ms)
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-12 05:44:31
End at: 2019-12-12 05:45:01
Local clock offset: -0.109 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-12-12 08:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.20 Mbit/s
95th percentile per-packet one-way delay: 75.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.20 Mbit/s
95th percentile per-packet one-way delay: 75.488 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2019-12-12 03:12:42
End at: 2019-12-12 03:13:12
Local clock offset: 0.086 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-12-12 08:17:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.48 Mbit/s
95th percentile per-packet one-way delay: 191.320 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 448.48 Mbit/s
95th percentile per-packet one-way delay: 191.320 ms
Loss rate: 5.77%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2019-12-12 03:48:12
End at: 2019-12-12 03:48:42
Local clock offset: 0.201 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-12-12 08:17:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.68 Mbit/s
95th percentile per-packet one-way delay: 176.261 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 382.68 Mbit/s
95th percentile per-packet one-way delay: 176.261 ms
Loss rate: 3.63%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2019-12-12 04:23:32
End at: 2019-12-12 04:24:02
Local clock offset: 0.38 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-12-12 08:19:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 430.02 Mbit/s
95th percentile per-packet one-way delay: 174.865 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 430.02 Mbit/s
95th percentile per-packet one-way delay: 174.865 ms
Loss rate: 2.50%
Run 3: Report of PCC-Allegro — Data Link

![Graph 1: Throughput](image1)

![Graph 2: Packet Delay](image2)
Run 4: Statistics of PCC-Allegro

Start at: 2019-12-12 04:58:50
End at: 2019-12-12 04:59:20
Local clock offset: 0.407 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-12-12 08:21:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.76 Mbit/s
95th percentile per-packet one-way delay: 193.718 ms
Loss rate: 7.66%
-- Flow 1:
Average throughput: 388.76 Mbit/s
95th percentile per-packet one-way delay: 193.718 ms
Loss rate: 7.66%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2019-12-12 05:34:01  
End at: 2019-12-12 05:34:31  
Local clock offset: -0.123 ms  
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-12-12 08:23:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 375.45 Mbit/s  
95th percentile per-packet one-way delay: 189.257 ms  
Loss rate: 5.84%  
-- Flow 1:  
Average throughput: 375.45 Mbit/s  
95th percentile per-packet one-way delay: 189.257 ms  
Loss rate: 5.84%
Run 5: Report of PCC-Allegro — Data Link

![Graphs showing throughput and packet delay](image-url)
Run 1: Statistics of PCC-Expr

Start at: 2019-12-12 03:10:01
End at: 2019-12-12 03:10:31
Local clock offset: 0.096 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-12-12 08:23:24
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 289.58 Mbit/s
  95th percentile per-packet one-way delay: 173.128 ms
  Loss rate: 5.74%
-- Flow 1:
  Average throughput: 289.58 Mbit/s
  95th percentile per-packet one-way delay: 173.128 ms
  Loss rate: 5.74%
Run 1: Report of PCC-Expr — Data Link

\begin{center}
\begin{figure}
\begin{subfigure}{0.8\textwidth}
\centering
\includegraphics[width=\textwidth]{run1_thru.png}
\end{subfigure}
\begin{subfigure}{0.8\textwidth}
\centering
\includegraphics[width=\textwidth]{run1_delay.png}
\end{subfigure}
\end{figure}
\end{center}
Run 2: Statistics of PCC-Expr

Start at: 2019-12-12 03:45:27
End at: 2019-12-12 03:45:57
Local clock offset: 0.224 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-12-12 08:23:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.88 Mbit/s
95th percentile per-packet one-way delay: 108.820 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 329.88 Mbit/s
95th percentile per-packet one-way delay: 108.820 ms
Loss rate: 0.10%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2019-12-12 04:20:51
End at: 2019-12-12 04:21:21
Local clock offset: 0.386 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-12-12 08:23:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.31 Mbit/s
95th percentile per-packet one-way delay: 130.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 283.31 Mbit/s
95th percentile per-packet one-way delay: 130.847 ms
Loss rate: 0.00%
Run 3: Report of PCC-Expr — Data Link

---

**Throughput (Mbps)**

**Flow 1 ingress (mean 283.30 Mbit/s)**  
**Flow 1 egress (mean 283.31 Mbit/s)**

---

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

**Flow 1 (95th percentile 130.85 ms)**

---

160
Run 4: Statistics of PCC-Expr

Start at: 2019-12-12 04:56:11
End at: 2019-12-12 04:56:41
Local clock offset: 0.527 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2019-12-12 08:26:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.68 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.68 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 272.67 Mbit/s)
- Flow 1 egress (mean 272.68 Mbit/s)

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

- Flow 1 (95th percentile 62.48 ms)
Run 5: Statistics of PCC-Expr

Start at: 2019-12-12 05:31:18
End at: 2019-12-12 05:31:49
Local clock offset: -0.158 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2019-12-12 08:29:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.73 Mbit/s
95th percentile per-packet one-way delay: 171.023 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 303.73 Mbit/s
95th percentile per-packet one-way delay: 171.023 ms
Loss rate: 2.13%
Run 5: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2019-12-12 03:07:25
End at: 2019-12-12 03:07:55
Local clock offset: 0.412 ms
Remote clock offset: -0.131 ms
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2019-12-12 03:42:48
End at: 2019-12-12 03:43:18
Local clock offset: 0.328 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.54 Mbit/s
95th percentile per-packet one-way delay: 56.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.54 Mbit/s
95th percentile per-packet one-way delay: 56.853 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

![Graph of throughput over time showing fluctuations in flow 1 ingress and egress.](image1)

![Graph of packet round-trip delay over time showing variability in flow 1 delay.](image2)
Run 3: Statistics of QUIC Cubic

Start at: 2019-12-12 04:18:11
End at: 2019-12-12 04:18:41
Local clock offset: 0.309 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.09 Mbit/s
95th percentile per-packet one-way delay: 56.843 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-12-12 04:53:31
End at: 2019-12-12 04:54:01
Local clock offset: 0.63 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 57.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.24 Mbit/s
95th percentile per-packet one-way delay: 57.046 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

![Graphs showing throughput and one-way delay over time for Flow 1 ingress and egress with a mean of 74.24 Mbit/s.](image)

*Flow 1 ingress (mean 74.24 Mbit/s)*
*Flow 1 egress (mean 74.24 Mbit/s)*
*Flow 1 (95th percentile 57.05 ms)*
Run 5: Statistics of QUIC Cubic

Start at: 2019-12-12 05:28:39
End at: 2019-12-12 05:29:09
Local clock offset: -0.163 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 56.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 56.981 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

![Graph showing packet loss over time with two lines representing ingress and egress traffic. Ingress traffic has a mean of 75.42 Mbit/s, and egress traffic also has a mean of 75.42 Mbit/s. Packet loss is indicated by vertical spikes at irregular intervals.]

![Graph showing packet delay over time with a line indicating packet delay (95th percentile) at 56.98 ms. Delay spikes are present at various times.]

174
Run 1: Statistics of SCReAM

Start at: 2019-12-12 03:11:34
End at: 2019-12-12 03:12:04
Local clock offset: 0.065 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.033 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2019-12-12 03:47:04
End at: 2019-12-12 03:47:34
Local clock offset: 0.217 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.155 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.155 ms
Loss rate: 0.13%
Run 2: Report of SCReAM — Data Link

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

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

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

- **Flow 1 (95th percentile 60.16 ms)**
Run 3: Statistics of SCReAM

Start at: 2019-12-12 04:22:24
End at: 2019-12-12 04:22:54
Local clock offset: 0.364 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.187 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.187 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

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

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

- Flow 1 (95th percentile 57.19 ms)
Run 4: Statistics of SCReAM

Start at: 2019-12-12 04:57:42
End at: 2019-12-12 04:58:12
Local clock offset: 0.435 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.222 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

The images depict graphs showing data link performance metrics:

1. **Throughput (Mbps)**: The graph plots throughput over time, with two different flows indicated by different lines. The legend indicates flow 1 ingress (mean 0.22 Mbps) and flow 1 egress (mean 0.22 Mbps).

2. **Per-packet one-way delay (ms)**: This graph shows the per-packet delay over time. The legend indicates flow 1 (95th percentile 57.22 ms).

These graphs are used to analyze the efficiency and reliability of the data link in run 4.
Run 5: Statistics of SCReAM

Start at: 2019-12-12 05:32:53
End at: 2019-12-12 05:33:23
Local clock offset: -0.091 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 56.846 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 56.846 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2019-12-12 03:31:30
End at: 2019-12-12 03:32:00
Local clock offset: 0.119 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 7.69 Mbit/s
  95th percentile per-packet one-way delay: 57.636 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.69 Mbit/s
  95th percentile per-packet one-way delay: 57.636 ms
  Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 7.69 Mbps)
- Flow 1 egress (mean 7.69 Mbps)

![Round-trip delay (ms) over Time (s)]

- Flow 1 (95th percentile 57.64 ms)
Run 2: Statistics of Sprout

Start at: 2019-12-12 04:06:41
End at: 2019-12-12 04:07:11
Local clock offset: 0.271 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 57.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 57.577 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

Throughput (Mbps/s) vs Time (s)

- Flow 1 ingress (mean 7.63 Mbps/s)
- Flow 1 egress (mean 7.63 Mbps/s)

Packet delay (ms) vs Time (s)

- Flow 1 95th percentile 57.58 ms
Run 3: Statistics of Sprout

Start at: 2019-12-12 04:42:05
End at: 2019-12-12 04:42:35
Local clock offset: 0.516 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 7.57 Mbit/s
  95th percentile per-packet one-way delay: 57.405 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.57 Mbit/s
  95th percentile per-packet one-way delay: 57.405 ms
  Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2019-12-12 05:17:06
End at: 2019-12-12 05:17:36
Local clock offset: -0.112 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.511 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

![Graph of throughput over time](image1)

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

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192
Run 5: Statistics of Sprout

Start at: 2019-12-12 05:52:37
End at: 2019-12-12 05:53:07
Local clock offset: 0.156 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-12-12 08:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 56.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 56.757 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-12 03:15:29
End at: 2019-12-12 03:15:59
Local clock offset: 0.077 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-12-12 08:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.60 Mbit/s
95th percentile per-packet one-way delay: 56.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.60 Mbit/s
95th percentile per-packet one-way delay: 56.865 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

The top graph shows throughput (Mbps) over time (s) for two flows: Flow 1 ingress and Flow 1 egress. The bottom graph displays per-packet one-way delay (ms) over time (s) for Flow 1, with the 95th percentile at 56.87 ms.
Run 2: Statistics of TaoVA-100x

Start at: 2019-12-12 03:50:55
End at: 2019-12-12 03:51:25
Local clock offset: 0.217 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-12-12 08:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.18 Mbit/s
95th percentile per-packet one-way delay: 60.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.18 Mbit/s
95th percentile per-packet one-way delay: 60.484 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

![Graph showing throughput over time with two lines representing flow ingress and egress.]

![Graph showing per-packet one-way delay over time with a single line representing flow 1 and its 95th percentile delay.]
Run 3: Statistics of TaoVA-100x

Start at: 2019-12-12 04:26:18
End at: 2019-12-12 04:26:48
Local clock offset: 0.404 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-12-12 08:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.97 Mbit/s
95th percentile per-packet one-way delay: 56.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.97 Mbit/s
95th percentile per-packet one-way delay: 56.945 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2019-12-12 05:01:34
End at: 2019-12-12 05:02:04
Local clock offset: 0.248 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-12-12 08:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.04 Mbit/s
95th percentile per-packet one-way delay: 57.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.04 Mbit/s
95th percentile per-packet one-way delay: 57.084 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 234.03 Mbit/s)
- Flow 1 egress (mean 234.04 Mbit/s)

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

- Flow 1 (95th percentile 57.08 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2019-12-12 05:36:44
End at: 2019-12-12 05:37:14
Local clock offset: -0.117 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-12-12 08:32:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.16 Mbit/s
95th percentile per-packet one-way delay: 57.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.16 Mbit/s
95th percentile per-packet one-way delay: 57.086 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2019-12-12 03:24:56
End at: 2019-12-12 03:25:26
Local clock offset: 0.124 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-12-12 08:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 482.39 Mbit/s
95th percentile per-packet one-way delay: 62.485 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 482.39 Mbit/s
95th percentile per-packet one-way delay: 62.485 ms
Loss rate: 0.03%
Run 1: Report of TCP Vegas — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 482.47 Mbit/s)
- Flow 1 egress (mean 482.39 Mbit/s)

![Packet Delay Graph]

Flow 1 (95th percentile 63.48 ms)
Run 2: Statistics of TCP Vegas

Start at: 2019-12-12 04:00:14
End at: 2019-12-12 04:00:44
Local clock offset: 0.253 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-12-12 08:36:00
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 430.14 Mbit/s
  95th percentile per-packet one-way delay: 57.394 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 430.14 Mbit/s
  95th percentile per-packet one-way delay: 57.394 ms
  Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2019-12-12 04:35:42
End at: 2019-12-12 04:36:12
Local clock offset: 0.427 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-12-12 08:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.85 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 310.85 Mbit/s
95th percentile per-packet one-way delay: 57.542 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

![Throughput Graph]

![Delay Graph]
Run 4: Statistics of TCP Vegas

Start at: 2019-12-12 05:10:32
End at: 2019-12-12 05:11:02
Local clock offset: -0.008 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2019-12-12 08:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.84 Mbit/s
95th percentile per-packet one-way delay: 61.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 463.84 Mbit/s
95th percentile per-packet one-way delay: 61.786 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2019-12-12 05:46:06
End at: 2019-12-12 05:46:36
Local clock offset: -0.132 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-12-12 08:42:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 465.70 Mbit/s
95th percentile per-packet one-way delay: 58.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 465.70 Mbit/s
95th percentile per-packet one-way delay: 58.783 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2019-12-12 03:35:35
End at: 2019-12-12 03:36:05
Local clock offset: 0.198 ms
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2019-12-12 08:42:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.05 Mbit/s
95th percentile per-packet one-way delay: 134.489 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 167.05 Mbit/s
95th percentile per-packet one-way delay: 134.489 ms
Loss rate: 0.21%
Run 1: Report of Verus — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 167.41 Mbps)**
- **Flow 1 egress (mean 167.05 Mbps)**

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

- **Flow 1 (95th percentile 134.49 ms)**

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216
Run 2: Statistics of Verus

Start at: 2019-12-12 04:10:52
End at: 2019-12-12 04:11:22
Local clock offset: 0.31 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-12-12 08:42:23
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 171.29 Mbit/s
  95th percentile per-packet one-way delay: 135.792 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 171.29 Mbit/s
  95th percentile per-packet one-way delay: 135.792 ms
  Loss rate: 0.05%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2019-12-12 04:46:14
End at: 2019-12-12 04:46:44
Local clock offset: 0.947 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-12-12 08:42:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.02 Mbit/s
95th percentile per-packet one-way delay: 129.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.02 Mbit/s
95th percentile per-packet one-way delay: 129.799 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

![Graph of throughput and round-trip delay over time for Flow 1 ingress and egress.](image)

- **Flow 1 ingress** (mean 175.03 Mbit/s)
- **Flow 1 egress** (mean 175.02 Mbit/s)

![Graph of round-trip delay over time for Flow 1.](image)

- **Flow 1 (95th percentile 129.80 ms)**
Run 4: Statistics of Verus

Start at: 2019-12-12 05:21:21
End at: 2019-12-12 05:21:51
Local clock offset: -0.128 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-12-12 08:42:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 161.826 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 161.826 ms
Loss rate: 0.23%
Run 4: Report of Verus — Data Link

![Chart 1: Throughput vs. Time](chart1.png)
- **Flow 1 ingress** (mean 222.66 Mbit/s)
- **Flow 1 egress** (mean 221.55 Mbit/s)

![Chart 2: Packet Delay vs. Time](chart2.png)
- **Flow 1** (95th percentile 161.83 ms)
Run 5: Statistics of Verus

Start at: 2019-12-12 05:56:51
End at: 2019-12-12 05:57:22
Local clock offset: -0.1 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-12-12 08:42:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.19 Mbit/s
95th percentile per-packet one-way delay: 145.197 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 158.19 Mbit/s
95th percentile per-packet one-way delay: 145.197 ms
Loss rate: 0.42%
Run 5: Report of Verus — Data Link

![Graph of throughput and packet delay](image1)

![Graph of packet delay](image2)
Run 1: Statistics of PCC-Vivace

Start at: 2019-12-12 03:32:39
End at: 2019-12-12 03:33:09
Local clock offset: 0.146 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-12-12 08:42:50
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 303.16 Mbit/s
  95th percentile per-packet one-way delay: 139.840 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 303.16 Mbit/s
  95th percentile per-packet one-way delay: 139.840 ms
  Loss rate: 0.07%
Run 1: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 303.37 Mbit/s)  Flow 1 egress (mean 303.16 Mbit/s)

Packet Delay (ms)

Time (s)

Flow 1 (95th percentile 139.84 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2019-12-12 04:07:50
End at: 2019-12-12 04:08:20
Local clock offset: 0.294 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-12-12 08:44:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.63 Mbit/s
95th percentile per-packet one-way delay: 58.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 356.63 Mbit/s
95th percentile per-packet one-way delay: 58.657 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress**: mean 356.61 Mbit/s
- **Flow 1 egress**: mean 356.63 Mbit/s

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

- **Flow 1**: (95th percentile 58.66 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2019-12-12 04:43:14
End at: 2019-12-12 04:43:44
Local clock offset: 0.518 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-12-12 08:44:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 320.52 Mbit/s
  95th percentile per-packet one-way delay: 65.355 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 320.52 Mbit/s
  95th percentile per-packet one-way delay: 65.355 ms
  Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

![Graph of throughput and packet delay over time]

- **Flow 1 ingress** (mean 320.51 Mbit/s)
- **Flow 1 egress** (mean 320.52 Mbit/s)
Run 4: Statistics of PCC-Vivace

Start at: 2019-12-12 05:18:16
End at: 2019-12-12 05:18:46
Local clock offset: -0.071 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-12-12 08:44:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.65 Mbit/s
95th percentile per-packet one-way delay: 60.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 338.65 Mbit/s
95th percentile per-packet one-way delay: 60.042 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 338.64 Mbit/s)**
- **Flow 1 egress (mean 338.65 Mbit/s)**

![Graph 2: End-to-end delay vs Time](image2.png)

- **Flow 1 (95th percentile 60.04 ms)**
Run 5: Statistics of PCC-Vivace

Start at: 2019-12-12 05:53:46
End at: 2019-12-12 05:54:16
Local clock offset: -0.14 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-12-12 08:44:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.33 Mbit/s
95th percentile per-packet one-way delay: 72.904 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 367.33 Mbit/s
95th percentile per-packet one-way delay: 72.904 ms
Loss rate: 0.04%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2019-12-12 03:06:17
End at: 2019-12-12 03:06:47
Local clock offset: 0.058 ms
Remote clock offset: 0.051 ms
Run 1: Report of WebRTC media — Data Link

![Graph showing throughput over time with two lines representing ingress and egress data flows.]

![Graph showing per-packet round-trip delay over time with a line indicating 95th percentile delay.]

236
Run 2: Statistics of WebRTC media

Start at: 2019-12-12 03:41:40
End at: 2019-12-12 03:42:10
Local clock offset: 0.175 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-12-12 08:44:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.486 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Graph showing throughput and round-trip time for WebRTC media.]

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

- Flow 1 (95th percentile 57.49 ms)
Run 3: Statistics of WebRTC media

Start at: 2019-12-12 04:17:03
End at: 2019-12-12 04:17:33
Local clock offset: 0.366 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-12-12 08:44:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.880 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

[Graph 1: Throughput vs Time]

[Graph 2: Packet Delay vs Time]

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

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

*Flow 1 (95th percentile 56.88 ms)*
Run 4: Statistics of WebRTC media

Start at: 2019-12-12 04:52:23
End at: 2019-12-12 04:52:53
Local clock offset: 0.976 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2019-12-12 08:44:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 56.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 56.552 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 2.22 Mbps)**
- **Flow 1 egress (mean 2.22 Mbps)**

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

- **Flow 1 (90th percentile 56.55 ms)**
Run 5: Statistics of WebRTC media

Start at: 2019-12-12 05:27:31
End at: 2019-12-12 05:28:01
Local clock offset: -0.167 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-12-12 08:44:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.883 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.883 ms
Loss rate: 0.05%
Run 5: Report of WebRTC media — Data Link

![Graph showing throughput over time with two lines indicating ingress and egress with a mean of 0.05 Mbit/s.]

![Graph showing packet round-trip delay with a 95th percentile of 56.88 ms.]

244