Pantheon Report

Generated at 2020-02-18 14:57:41 (UTC).
Data path: GCE Iowa 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 5.0.0-1026-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 @ de42328552b3776a75a932a94dafad722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbfe58e562f4
third_party/indigo @ 2601c92e4a9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823ada2095537730c746486ca4966
third_party/muses_dtree @ 387725f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958a0d66d18b623c091a55fecd872b4981e1
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 @ 77961f1a82733a86b42f1bc8143ebc978f3ccff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3dbb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562539f9a494
M src/verus.hpp
M tools/plot.py
test from GCE Iowa 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>563.23</td>
<td>181.55</td>
<td>4.89</td>
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<tr>
<td>Copa</td>
<td>5</td>
<td>236.87</td>
<td>92.49</td>
<td>0.02</td>
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<td>TCP Cubic</td>
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<td>358.09</td>
<td>178.77</td>
<td>0.44</td>
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<td>122.58</td>
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<td>96.23</td>
<td>0.22</td>
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<td>115.27</td>
<td>0.07</td>
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<td>LEDBAT</td>
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<td>0.00</td>
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<td>69.47</td>
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<td>Verus</td>
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<td>162.57</td>
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<td>115.97</td>
<td>0.09</td>
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<td>N/A</td>
<td>N/A</td>
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</table>
Run 1: Statistics of TCP BBR

Start at: 2020-02-18 10:24:36  
End at: 2020-02-18 10:25:06  
Local clock offset: -0.057 ms  
Remote clock offset: -0.146 ms  

# Below is generated by plot.py at 2020-02-18 13:10:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 453.65 Mbit/s  
95th percentile per-packet one-way delay: 211.660 ms  
Loss rate: 3.76%  
-- Flow 1:  
Average throughput: 453.65 Mbit/s  
95th percentile per-packet one-way delay: 211.660 ms  
Loss rate: 3.76%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2020-02-18 10:59:17
End at: 2020-02-18 10:59:47
Local clock offset: ~0.17 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2020-02-18 13:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.28 Mbit/s
95th percentile per-packet one-way delay: 176.422 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 567.28 Mbit/s
95th percentile per-packet one-way delay: 176.422 ms
Loss rate: 2.72%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2020-02-18 11:33:04
End at: 2020-02-18 11:33:34
Local clock offset: 0.002 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2020-02-18 13:12:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.69 Mbit/s
95th percentile per-packet one-way delay: 182.499 ms
Loss rate: 5.18%
-- Flow 1:
Average throughput: 540.69 Mbit/s
95th percentile per-packet one-way delay: 182.499 ms
Loss rate: 5.18%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2020-02-18 12:07:33
End at: 2020-02-18 12:08:03
Local clock offset: -0.018 ms
Remote clock offset: 0.151 ms

# Below is generated by plot.py at 2020-02-18 13:13:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 663.22 Mbit/s
95th percentile per-packet one-way delay: 185.535 ms
Loss rate: 10.85%
-- Flow 1:
Average throughput: 663.22 Mbit/s
95th percentile per-packet one-way delay: 185.535 ms
Loss rate: 10.85%
Run 4: Report of TCP BBR — Data Link

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

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

- Flow 1 ingress (mean 744.08 Mbps)
- Flow 1 egress (mean 663.22 Mbps)

![Flow 1 (95th percentile 185.53 ms)]
Run 5: Statistics of TCP BBR

Start at: 2020-02-18 12:42:40
End at: 2020-02-18 12:43:10
Local clock offset: -0.006 ms
Remote clock offset: 1.135 ms

# Below is generated by plot.py at 2020-02-18 13:13:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.31 Mbit/s
95th percentile per-packet one-way delay: 151.627 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 591.31 Mbit/s
95th percentile per-packet one-way delay: 151.627 ms
Loss rate: 1.95%
Run 5: Report of TCP BBR — Data Link

![Graph showing throughput and one-way delay over time for a network flow with TCP BBR.]
Run 1: Statistics of Copa

Start at: 2020-02-18 10:20:50
End at: 2020-02-18 10:21:20
Local clock offset: -0.061 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2020-02-18 13:13:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.48 Mbit/s
95th percentile per-packet one-way delay: 88.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.48 Mbit/s
95th percentile per-packet one-way delay: 88.561 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2020-02-18 10:55:26
End at: 2020-02-18 10:55:56
Local clock offset: -0.128 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2020-02-18 13:13:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.94 Mbit/s
95th percentile per-packet one-way delay: 89.491 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 253.94 Mbit/s
95th percentile per-packet one-way delay: 89.491 ms
Loss rate: 0.03%
Run 2: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 254.08 Mbps)
- **Flow 1 egress** (mean 253.94 Mbps)

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

- **Flow 1** (95th percentile 89.49 ms)
Run 3: Statistics of Copa

Start at: 2020-02-18 11:29:13
End at: 2020-02-18 11:29:43
Local clock offset: -0.029 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2020-02-18 13:13:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.30 Mbit/s
95th percentile per-packet one-way delay: 91.280 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 256.30 Mbit/s
95th percentile per-packet one-way delay: 91.280 ms
Loss rate: 0.05%
Run 4: Statistics of Copa

Start at: 2020-02-18 12:03:49
End at: 2020-02-18 12:04:19
Local clock offset: -0.03 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-02-18 13:16:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.64 Mbit/s
95th percentile per-packet one-way delay: 91.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.64 Mbit/s
95th percentile per-packet one-way delay: 91.232 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

![Graph 1](Image)

- **Flow 1 ingress (mean 186.64 Mbit/s)**
- **Flow 1 egress (mean 186.64 Mbit/s)**

![Graph 2](Image)

- **Flow 1 (95th percentile 91.23 ms)**
Run 5: Statistics of Copa

Start at: 2020-02-18 12:38:50
End at: 2020-02-18 12:39:20
Local clock offset: -0.016 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2020-02-18 13:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.97 Mbit/s
95th percentile per-packet one-way delay: 101.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.97 Mbit/s
95th percentile per-packet one-way delay: 101.901 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress: mean 247.96 Mbps
- Flow 1 egress: mean 247.97 Mbps

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

- Flow 1: 95th percentile 101.90 ms
Run 1: Statistics of TCP Cubic

Start at: 2020-02-18 10:12:02
End at: 2020-02-18 10:12:33
Local clock offset: -0.036 ms
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2020-02-18 13:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.76 Mbit/s
95th percentile per-packet one-way delay: 176.681 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 420.76 Mbit/s
95th percentile per-packet one-way delay: 176.681 ms
Loss rate: 0.36%
Run 1: Report of TCP Cubic — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 422.30 Mbps)**
- **Flow 1 egress (mean 420.76 Mbps)**

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

- **Flow 1 (95th percentile 176.68 ms)**
Run 2: Statistics of TCP Cubic

Start at: 2020-02-18 10:46:44
End at: 2020-02-18 10:47:14
Local clock offset: -0.103 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2020-02-18 13:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 370.99 Mbit/s
95th percentile per-packet one-way delay: 191.283 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 370.99 Mbit/s
95th percentile per-packet one-way delay: 191.283 ms
Loss rate: 0.45%
Run 2: Report of TCP Cubic — Data Link

![Graph of throughput and packet delay over time for flow 1.]

- Flow 1 ingress (mean 372.70 Mbit/s)
- Flow 1 egress (mean 370.99 Mbit/s)

![Graph of packet delay over time for flow 1.]

- Flow 1 (95th percentile 191.28 ms)
Run 3: Statistics of TCP Cubic

Start at: 2020-02-18 11:20:41
End at: 2020-02-18 11:21:11
Local clock offset: -0.067 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-02-18 13:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.31 Mbit/s
95th percentile per-packet one-way delay: 170.409 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 204.31 Mbit/s
95th percentile per-packet one-way delay: 170.409 ms
Loss rate: 0.92%
Run 3: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 206.22 Mbps) and Flow 1 egress (mean 204.31 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 170.41 ms)
Run 4: Statistics of TCP Cubic

Start at: 2020-02-18 11:54:59
End at: 2020-02-18 11:55:29
Local clock offset: 0.002 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2020-02-18 13:19:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.81 Mbit/s
95th percentile per-packet one-way delay: 170.016 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 411.81 Mbit/s
95th percentile per-packet one-way delay: 170.016 ms
Loss rate: 0.33%
Run 4: Report of TCP Cubic — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 413.21 Mbit/s)
- Flow 1 egress (mean 411.81 Mbit/s)

**Delay per Packet (ms):**
- Flow 1 (95th percentile 170.02 ms)
Run 5: Statistics of TCP Cubic

Start at: 2020-02-18 12:30:07
End at: 2020-02-18 12:30:37
Local clock offset: -0.043 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2020-02-18 13:19:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.59 Mbit/s
95th percentile per-packet one-way delay: 185.452 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 382.59 Mbit/s
95th percentile per-packet one-way delay: 185.452 ms
Loss rate: 0.16%
Run 5: Report of TCP Cubic — Data Link

![Throughput Graph](image1.png)

- Flow 1 ingress (mean 383.20 Mbit/s)
- Flow 1 egress (mean 382.59 Mbit/s)

![Packet Delay Graph](image2.png)

- Flow 1 (95th percentile 185.45 ms)
Run 1: Statistics of FillP

Start at: 2020-02-18 09:56:22
End at: 2020-02-18 09:56:52
Local clock offset: 0.017 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2020-02-18 13:28:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 668.02 Mbit/s
95th percentile per-packet one-way delay: 104.056 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 668.02 Mbit/s
95th percentile per-packet one-way delay: 104.056 ms
Loss rate: 0.43%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2020-02-18 10:30:27
End at: 2020-02-18 10:30:57
Local clock offset: -0.075 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2020-02-18 13:30:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 708.05 Mbit/s
95th percentile per-packet one-way delay: 132.540 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 708.05 Mbit/s
95th percentile per-packet one-way delay: 132.540 ms
Loss rate: 1.97%
Run 2: Report of FillP — Data Link

![Graph of Throughput (Mbps)](image1)

- Flow 1 ingress (mean 722.32 Mbit/s)
- Flow 1 egress (mean 708.05 Mbit/s)

![Graph of Per-packet End-to-End Delay (ms)](image2)

- Flow 1 (95th percentile 132.54 ms)
Run 3: Statistics of FillP

Start at: 2020-02-18 11:05:21
End at: 2020-02-18 11:05:51
Local clock offset: -0.178 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2020-02-18 13:37:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 903.44 Mbit/s
95th percentile per-packet one-way delay: 106.047 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 903.44 Mbit/s
95th percentile per-packet one-way delay: 106.047 ms
Loss rate: 0.37%
Run 3: Report of FillP — Data Link

![Throughput graph](image)

- Flow 1 ingress (mean 906.77 Mb/s)
- Flow 1 egress (mean 903.44 Mb/s)

![Delay graph](image)

- Flow 1 (95th percentile 166.05 ms)
Run 4: Statistics of FillP

Start at: 2020-02-18 11:39:04
End at: 2020-02-18 11:39:34
Local clock offset: 0.014 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2020-02-18 13:37:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.67 Mbit/s
95th percentile per-packet one-way delay: 138.808 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 692.67 Mbit/s
95th percentile per-packet one-way delay: 138.808 ms
Loss rate: 2.72%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2020-02-18 12:13:37
End at: 2020-02-18 12:14:07
Local clock offset: -0.002 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2020-02-18 13:38:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 867.89 Mbit/s
95th percentile per-packet one-way delay: 131.456 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 867.89 Mbit/s
95th percentile per-packet one-way delay: 131.456 ms
Loss rate: 1.24%
Run 5: Report of FillP — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 878.91 Mbits/s)
- Flow 1 egress (mean 867.89 Mbits/s)

![Delay Graph]

Flow 1 (95th percentile 131.46 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2020-02-18 10:10:17
End at: 2020-02-18 10:10:47
Local clock offset: -0.032 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-02-18 13:39:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 902.53 Mbit/s
95th percentile per-packet one-way delay: 71.367 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 902.53 Mbit/s
95th percentile per-packet one-way delay: 71.367 ms
Loss rate: 0.01%
Run 1: Report of FillP-Sheep — Data Link

![Graph showing throughput and packet delay over time in a network test.]

**Throughput vs. Time**: The graph depicts the throughput over time, with a sudden increase and subsequent fluctuations. Two lines represent different flow types:
- Flow 1 ingress (mean 902.54 Mbps)
- Flow 1 egress (mean 902.53 Mbps)

**Packet Delay vs. Time**: Below the throughput graph, there is a separate graph illustrating packet delay over time. The 95th percentile delay is noted as 71.37 ms.

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Run 2: Statistics of FillP-Sheep

Start at: 2020-02-18 10:44:58
End at: 2020-02-18 10:45:28
Local clock offset: -0.117 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2020-02-18 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 938.52 Mbit/s
95th percentile per-packet one-way delay: 74.378 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 938.52 Mbit/s
95th percentile per-packet one-way delay: 74.378 ms
Loss rate: 0.07%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2020-02-18 11:19:01
End at: 2020-02-18 11:19:31
Local clock offset: -0.087 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2020-02-18 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 797.56 Mbit/s
95th percentile per-packet one-way delay: 116.326 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 797.56 Mbit/s
95th percentile per-packet one-way delay: 116.326 ms
Loss rate: 0.25%
Run 3: Report of FillP-Sheep — Data Link
Run 4: Statistics of FillP-Sheep

Start at: 2020-02-18 11:53:15
End at: 2020-02-18 11:53:45
Local clock offset: -0.061 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2020-02-18 13:50:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 879.68 Mbit/s
95th percentile per-packet one-way delay: 112.949 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 879.68 Mbit/s
95th percentile per-packet one-way delay: 112.949 ms
Loss rate: 0.60%
Run 4: Report of FillP-Sheep — Data Link

![Graph of Throughput (Mbps)](image1)

- **Flow 1 ingress (mean 885.05 Mbps)**
- **Flow 1 egress (mean 879.68 Mbps)**

![Graph of Per-Packet One-Way Delay (ms)](image2)

- **Flow 1 (95th percentile 112.95 ms)**
Run 5: Statistics of FillP-Sheep

Start at: 2020-02-18 12:28:22
End at: 2020-02-18 12:28:52
Local clock offset: -0.026 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2020-02-18 13:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 890.78 Mbit/s
95th percentile per-packet one-way delay: 106.147 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 890.78 Mbit/s
95th percentile per-packet one-way delay: 106.147 ms
Loss rate: 0.19%
Run 5: Report of FillP-Sheep — Data Link

![Graph of throughput over time with two lines representing flow ingress and egress with specified mean data rates.]
Run 1: Statistics of Indigo

Start at: 2020-02-18 10:13:31
End at: 2020-02-18 10:14:01
Local clock offset: -0.037 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2020-02-18 13:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.53 Mbit/s
95th percentile per-packet one-way delay: 65.079 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.53 Mbit/s
95th percentile per-packet one-way delay: 65.079 ms
Loss rate: 0.01%
Run 1: Report of Indigo — Data Link

![Graph showing throughput and delay over time.]

- **Flow 1 ingress (mean 222.53 Mbit/s)**
- **Flow 1 egress (mean 222.53 Mbit/s)**

![Graph showing per-packet one-way delay.]

- **Flow 1 (95th percentile 65.08 ms)**

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Run 2: Statistics of Indigo

Start at: 2020-02-18 10:48:10  
End at: 2020-02-18 10:48:40  
Local clock offset: -0.125 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-02-18 13:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.49 Mbit/s  
95th percentile per-packet one-way delay: 61.785 ms  
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.49 Mbit/s  
95th percentile per-packet one-way delay: 61.785 ms  
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2020-02-18 11:21:59
End at: 2020-02-18 11:22:29
Local clock offset: -0.024 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-02-18 13:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.18 Mbit/s
95th percentile per-packet one-way delay: 62.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.18 Mbit/s
95th percentile per-packet one-way delay: 62.268 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

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

Start at: 2020-02-18 11:56:27
End at: 2020-02-18 11:56:57
Local clock offset: ~0.036 ms
Remote clock offset: 0.506 ms

# Below is generated by plot.py at 2020-02-18 13:52:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.54 Mbit/s
95th percentile per-packet one-way delay: 65.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.54 Mbit/s
95th percentile per-packet one-way delay: 65.189 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

---

**Graph 1:**
- **Throughput (Mbps)** vs. **Time (s)**
- Legend:
  - Flow 1 ingress (mean 221.58 Mbit/s)
  - Flow 1 egress (mean 221.54 Mbit/s)

**Graph 2:**
- **Packet arrival rate (per sec)** vs. **Time (s)**
- Legend:
  - Flow 1 (95th percentile 65.19 ms)
Run 5: Statistics of Indigo

Start at: 2020-02-18 12:31:34
End at: 2020-02-18 12:32:04
Local clock offset: -0.036 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-02-18 13:52:37
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 215.05 Mbit/s
  95th percentile per-packet one-way delay: 61.707 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 215.05 Mbit/s
  95th percentile per-packet one-way delay: 61.707 ms
  Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

![Graph showing throughput and packet delay over time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 215.05 Mbit/s)
  - Flow 1 egress (mean 215.05 Mbit/s)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 61.71 ms)
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-18 10:15:00
End at: 2020-02-18 10:15:30
Local clock offset: -0.075 ms
Remote clock offset: -0.698 ms

# Below is generated by plot.py at 2020-02-18 13:52:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.52 Mbit/s
95th percentile per-packet one-way delay: 66.535 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 614.52 Mbit/s
95th percentile per-packet one-way delay: 66.535 ms
Loss rate: 0.01%
Run 1: Report of Indigo-MusesC3 — Data Link

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

**Legend:**
- Blue dashed line: Flow 1 ingress (mean 614.58 Mbit/s)
- Blue solid line: Flow 1 egress (mean 614.52 Mbit/s)

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

**Legend:**
- Blue line: Flow 1 (95th percentile 66.53 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-18 10:49:38
End at: 2020-02-18 10:50:08
Local clock offset: -0.138 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2020-02-18 13:52:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 536.31 Mbit/s
95th percentile per-packet one-way delay: 86.083 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 536.31 Mbit/s
95th percentile per-packet one-way delay: 86.083 ms
Loss rate: 0.01%
Run 2: Report of Indigo-MusesC3 — Data Link

![Throughput and Delay Graphs]
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-18 11:23:27
End at: 2020-02-18 11:23:57
Local clock offset: -0.069 ms
Remote clock offset: 0.572 ms

# Below is generated by plot.py at 2020-02-18 13:55:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.92 Mbit/s
95th percentile per-packet one-way delay: 83.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 534.92 Mbit/s
95th percentile per-packet one-way delay: 83.714 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC3 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 534.94 Mbit/s)  Flow 1 egress (mean 534.92 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 83.71 ms)
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-18 11:57:56
End at: 2020-02-18 11:58:26
Local clock offset: -0.04 ms
Remote clock offset: -0.97 ms

# Below is generated by plot.py at 2020-02-18 13:57:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 605.55 Mbit/s
95th percentile per-packet one-way delay: 74.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 605.55 Mbit/s
95th percentile per-packet one-way delay: 74.600 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1 ingress (mean 605.56 Mbit/s)**
- **Flow 1 egress (mean 605.55 Mbit/s)**

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

- **Flow 1 (95th percentile 74.60 ms)**
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-18 12:33:02
End at: 2020-02-18 12:33:32
Local clock offset: 0.042 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-18 13:57:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.16 Mbit/s
95th percentile per-packet one-way delay: 87.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 581.16 Mbit/s
95th percentile per-packet one-way delay: 87.413 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link

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

Flow 1 ingress (mean 581.15 Mbit/s)  Flow 1 egress (mean 581.16 Mbit/s)

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

Flow 1 (95th percentile 87.41 ms)
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-18 10:19:13
End at: 2020-02-18 10:19:43
Local clock offset: -0.055 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2020-02-18 13:58:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 618.12 Mbit/s
95th percentile per-packet one-way delay: 92.873 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 618.12 Mbit/s
95th percentile per-packet one-way delay: 92.873 ms
Loss rate: 0.07%
Run 1: Report of Indigo-MusesC5 — Data Link

![Graph of data link throughput and packet delay](image-url)
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-18 10:53:49
End at: 2020-02-18 10:54:19
Local clock offset: -0.164 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2020-02-18 14:02:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.35 Mbit/s
95th percentile per-packet one-way delay: 95.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 632.35 Mbit/s
95th percentile per-packet one-way delay: 95.494 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress (mean 632.32 Mbit/s)**
- **Flow 1 egress (mean 632.35 Mbit/s)**

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

- **Flow 1 (95th percentile 95.49 ms)**

---

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Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-18 11:27:38
End at: 2020-02-18 11:28:08
Local clock offset: -0.019 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2020-02-18 14:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.05 Mbit/s
95th percentile per-packet one-way delay: 149.812 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 579.05 Mbit/s
95th percentile per-packet one-way delay: 149.812 ms
Loss rate: 0.06%
Run 3: Report of Indigo-MusesC5 — Data Link

![Graph of throughput and delay over time for flow 1 ingress and egress with mean Mbit/s values.]

![Graph of packet delay over time for flow 1 with 95th percentile delay value.]

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Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-18 12:02:14
End at: 2020-02-18 12:02:44
Local clock offset: -0.026 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2020-02-18 14:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 620.36 Mbit/s
95th percentile per-packet one-way delay: 89.447 ms
Loss rate: 0.01%

-- Flow 1:
Average throughput: 620.36 Mbit/s
95th percentile per-packet one-way delay: 89.447 ms
Loss rate: 0.01%
Run 4: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress (mean 620.53 Mbit/s)**
- **Flow 1 egress (mean 620.36 Mbit/s)**

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

- **Flow 1 (95th percentile 89.45 ms)**
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-18 12:37:13
End at: 2020-02-18 12:37:43
Local clock offset: -0.006 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2020-02-18 14:04:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 627.76 Mbit/s
95th percentile per-packet one-way delay: 86.284 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 627.76 Mbit/s
95th percentile per-packet one-way delay: 86.284 ms
Loss rate: 0.05%
Run 5: Report of Indigo-MusesC5 — Data Link

The graphs show the throughput and packet one-way delay over time for Flow 1 ingress and egress. The throughput graph displays a fluctuating pattern with a peak at around 20 seconds. The packet delay graph shows a high degree of variability, with some peaks exceeding 110 ms.
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-18 09:58:00
End at: 2020-02-18 09:58:30
Local clock offset: 0.024 ms
Remote clock offset: -0.128 ms
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-18 10:32:05
End at: 2020-02-18 10:32:35
Local clock offset: -0.089 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2020-02-18 14:06:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.17 Mbit/s
95th percentile per-packet one-way delay: 98.939 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 484.17 Mbit/s
95th percentile per-packet one-way delay: 98.939 ms
Loss rate: 0.07%
Run 2: Report of Indigo-MusesD — Data Link

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

Flow 1 ingress (mean 484.58 Mbit/s)  
Flow 1 egress (mean 484.17 Mbit/s)

![Graph 2: Per-packet one-way delay over Time](chart2.png)

Flow 1 (95th percentile 98.94 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-18 11:07:06
End at: 2020-02-18 11:07:36
Local clock offset: -0.149 ms
Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2020-02-18 14:07:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.19 Mbit/s
95th percentile per-packet one-way delay: 92.990 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 497.19 Mbit/s
95th percentile per-packet one-way delay: 92.990 ms
Loss rate: 0.02%
Run 3: Report of Indigo-MusesD — Data Link

![Graphs showing throughput and packet delay](image-url)
Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-18 11:40:40
End at: 2020-02-18 11:41:10
Local clock offset: 0.02 ms
Remote clock offset: 1.203 ms

# Below is generated by plot.py at 2020-02-18 14:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.87 Mbit/s
95th percentile per-packet one-way delay: 98.801 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 538.87 Mbit/s
95th percentile per-packet one-way delay: 98.801 ms
Loss rate: 0.13%
Run 4: Report of Indigo-MusesD — Data Link

[Graphs showing throughput and packet delay over time, with legends indicating Flow 1 ingress and egress.]
Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-18 12:15:20
End at: 2020-02-18 12:15:50
Local clock offset: -0.025 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2020-02-18 14:09:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.34 Mbit/s
95th percentile per-packet one-way delay: 103.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 565.34 Mbit/s
95th percentile per-packet one-way delay: 103.844 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link
Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-18 10:26:04
End at: 2020-02-18 10:26:34
Local clock offset: -0.082 ms
Remote clock offset: -0.541 ms

# Below is generated by plot.py at 2020-02-18 14:10:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.28 Mbit/s
95th percentile per-packet one-way delay: 102.821 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 470.28 Mbit/s
95th percentile per-packet one-way delay: 102.821 ms
Loss rate: 0.09%
Run 1: Report of Indigo-MusesT — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 470.67 Mbps)
- **Flow 1 egress** (mean 470.28 Mbps)

---

**Packet one way delay (ms)**

- **Flow 1** (95th percentile 102.02 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-18 11:00:52
End at: 2020-02-18 11:01:22
Local clock offset: -0.163 ms
Remote clock offset: -0.699 ms

# Below is generated by plot.py at 2020-02-18 14:13:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 624.75 Mbit/s
  95th percentile per-packet one-way delay: 110.426 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 624.75 Mbit/s
  95th percentile per-packet one-way delay: 110.426 ms
  Loss rate: 0.16%
Run 2: Report of Indigo-MusesT — Data Link

![Throughput over time graph](image1)

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

- **Flow 1 ingress (mean 625.94 Mbit/s)**
- **Flow 1 egress (mean 624.75 Mbit/s)**

**Flow 1 (95th percentile 110.43 ms)**
Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-18 11:34:38
End at: 2020-02-18 11:35:08
Local clock offset: -0.019 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2020-02-18 14:13:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.76 Mbit/s
95th percentile per-packet one-way delay: 133.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 577.76 Mbit/s
95th percentile per-packet one-way delay: 133.143 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-18 12:09:12
End at: 2020-02-18 12:09:42
Local clock offset: ~0.029 ms
Remote clock offset: 1.409 ms

# Below is generated by plot.py at 2020-02-18 14:14:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.04 Mbit/s
95th percentile per-packet one-way delay: 107.869 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 543.04 Mbit/s
95th percentile per-packet one-way delay: 107.869 ms
Loss rate: 0.08%
Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-18 12:44:14
End at: 2020-02-18 12:44:44
Local clock offset: -0.01 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.77 Mbit/s
95th percentile per-packet one-way delay: 122.082 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 632.77 Mbit/s
95th percentile per-packet one-way delay: 122.082 ms
Loss rate: 0.01%
Run 5: Report of Indigo-MusesT — Data Link
Run 1: Statistics of LEDBAT

Start at: 2020-02-18 10:07:34  
End at: 2020-02-18 10:08:04  
Local clock offset: 0.023 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:  
Average throughput: 25.77 Mbit/s  
95th percentile per-packet one-way delay: 61.177 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 25.77 Mbit/s  
95th percentile per-packet one-way delay: 61.177 ms  
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

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

![Graph 2: Per-packet round-trip delay (ms) vs Time (s)]
Run 2: Statistics of LEDBAT

Start at: 2020-02-18 10:42:14
End at: 2020-02-18 10:42:44
Local clock offset: -0.101 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 61.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 61.065 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2020-02-18 11:16:15
End at: 2020-02-18 11:16:45
Local clock offset: -0.128 ms
Remote clock offset: 0.062 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.78 Mbit/s
95th percentile per-packet one-way delay: 61.657 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.78 Mbit/s
95th percentile per-packet one-way delay: 61.657 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2020-02-18 11:50:36
End at: 2020-02-18 11:51:06
Local clock offset: -0.018 ms
Remote clock offset: 0.584 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:
   Average throughput: 25.77 Mbit/s
   95th percentile per-packet one-way delay: 62.190 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 25.77 Mbit/s
   95th percentile per-packet one-way delay: 62.190 ms
   Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2020-02-18 12:25:39
End at: 2020-02-18 12:26:10
Local clock offset: -0.043 ms
Remote clock offset: -1.29 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 25.87 Mbit/s
  95th percentile per-packet one-way delay: 61.066 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 25.87 Mbit/s
  95th percentile per-packet one-way delay: 61.066 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph 1](image)

![Graph 2](image)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 10:01:30
End at: 2020-02-18 10:02:00
Local clock offset: 0.02 ms
Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2020-02-18 14:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 410.13 Mbit/s
95th percentile per-packet one-way delay: 79.559 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 410.13 Mbit/s
95th percentile per-packet one-way delay: 79.559 ms
Loss rate: 0.01%
Run 1: Report of Muses_DecisionTree — Data Link

---

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 410.13 Mbit/s)  Flow 1 egress (mean 410.13 Mbit/s)

---

Per packet end-to-end delay (ms)

Time (s)

Flow 1 (95th percentile 79.56 ms)

---
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 10:36:07
End at: 2020-02-18 10:36:37
Local clock offset: -0.06 ms
Remote clock offset: 0.523 ms

# Below is generated by plot.py at 2020-02-18 14:19:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 464.81 Mbit/s
95th percentile per-packet one-way delay: 63.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 464.81 Mbit/s
95th percentile per-packet one-way delay: 63.790 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTree — Data Link
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 11:11:07
End at: 2020-02-18 11:11:37
Local clock offset: -0.186 ms
Remote clock offset: 1.169 ms

# Below is generated by plot.py at 2020-02-18 14:19:36
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 66.920 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 66.920 ms
  Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link

![Throughput Graph](image_url)

- Flow 1 ingress (mean 0.17 Mbit/s)
- Flow 1 egress (mean 0.17 Mbit/s)

![Delay Graph](image_url)

- Flow 1 95th percentile 66.92 ms
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 11:44:30
End at: 2020-02-18 11:45:00
Local clock offset: -0.002 ms
Remote clock offset: -0.507 ms

# Below is generated by plot.py at 2020-02-18 14:19:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 440.77 Mbit/s
95th percentile per-packet one-way delay: 62.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 440.77 Mbit/s
95th percentile per-packet one-way delay: 62.185 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTree — Data Link

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

- **Flow 1 ingress (mean 440.76 Mbps)**
- **Flow 1 egress (mean 440.77 Mbps)**

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

- **Flow 1 (95th percentile 62.19 ms)**
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 12:19:31  
End at: 2020-02-18 12:20:01  
Local clock offset: 0.001 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2020-02-18 14:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.81 Mbit/s
95th percentile per-packet one-way delay: 74.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 579.81 Mbit/s
95th percentile per-packet one-way delay: 74.908 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTree — Data Link

![Graph of packet throughput over time]

![Graph of packet delay over time]

Flow 1 ingress (mean 579.80 Mbit/s) and Flow 1 egress (mean 579.81 Mbit/s)
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 09:59:13
End at: 2020-02-18 09:59:43
Local clock offset: 0.027 ms
Remote clock offset: 0.755 ms

# Below is generated by plot.py at 2020-02-18 14:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 63.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 63.211 ms
Loss rate: 0.00%
Run 1: Report of Muses DecisionTreeH0 — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress (mean 0.17 Mbps)**
- **Flow 1 egress (mean 0.17 Mbps)**

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

- **Flow 1 (95th percentile 63.21 ms)**

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Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 10:33:36  
End at: 2020-02-18 10:34:06  
Local clock offset: -0.052 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2020-02-18 14:21:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 276.07 Mbit/s  
95th percentile per-packet one-way delay: 181.993 ms  
Loss rate: 7.68%  
-- Flow 1:  
Average throughput: 276.07 Mbit/s  
95th percentile per-packet one-way delay: 181.993 ms  
Loss rate: 7.68%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 11:08:37
End at: 2020-02-18 11:09:07
Local clock offset: -0.132 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2020-02-18 14:21:42
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 263.13 Mbit/s
  95th percentile per-packet one-way delay: 166.942 ms
  Loss rate: 3.89%
-- Flow 1:
  Average throughput: 263.13 Mbit/s
  95th percentile per-packet one-way delay: 166.942 ms
  Loss rate: 3.89%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 273.92 Mbps)
- Flow 1 egress (mean 263.13 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 166.94 ms)
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 11:42:13
End at: 2020-02-18 11:42:43
Local clock offset: -0.012 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-02-18 14:21:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 60.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 60.281 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.18 Mbit/s)  Flow 1 egress (mean 0.18 Mbit/s)

Delay (ms)

Time (s)

Flow 1 (95th percentile 60.28 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 12:16:55
End at: 2020-02-18 12:17:25
Local clock offset: 0.011 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2020-02-18 14:21:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.42 Mbit/s
95th percentile per-packet one-way delay: 142.714 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 380.42 Mbit/s
95th percentile per-packet one-way delay: 142.714 ms
Loss rate: 0.64%
Run 5: Report of Muses_DecisionTreeH0 — Data Link
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 10:02:59
End at: 2020-02-18 10:03:29
Local clock offset: 0.057 ms
Remote clock offset: 0.623 ms

# Below is generated by plot.py at 2020-02-18 14:30:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 645.80 Mbit/s
  95th percentile per-packet one-way delay: 67.110 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 645.80 Mbit/s
  95th percentile per-packet one-way delay: 67.110 ms
  Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeR0 — Data Link

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

Flow 1 ingress (mean 645.78 Mbps)  
Flow 1 egress (mean 645.80 Mbps)

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

Flow 1 (95th percentile 67.11 ms)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 10:37:37
End at: 2020-02-18 10:38:07
Local clock offset: -0.087 ms
Remote clock offset: 0.8 ms

# Below is generated by plot.py at 2020-02-18 14:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.64 Mbit/s
95th percentile per-packet one-way delay: 69.253 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 623.64 Mbit/s
95th percentile per-packet one-way delay: 69.253 ms
Loss rate: 0.00%
Run 2: Report of Muses.DECisionTreeR0 — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingress and egress.
Flow 1 ingress (mean 623.62 Mbit/s) and Flow 1 egress (mean 623.64 Mbit/s).]

![Graph showing packet delay distribution over time for Flow 1 with a 95th percentile of 69.25 ms.]

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Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 11:12:15
End at: 2020-02-18 11:12:45
Local clock offset: -0.147 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2020-02-18 14:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 60.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 60.054 ms
Loss rate: 0.00%
Run 3: Report of Muses

DecisionTreeR0 — Data Link

[Diagrams showing throughput and packet delay over time]

Flow 1 ingress (mean 0.17 Mbit/s)  Flow 1 egress (mean 0.17 Mbit/s)

Flow 1 (95th percentile 60.05 ms)
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2020-02-18 11:46:00
End at: 2020-02-18 11:46:30
Local clock offset: -0.004 ms
Remote clock offset: -0.752 ms

# Below is generated by plot.py at 2020-02-18 14:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.48 Mbit/s
95th percentile per-packet one-way delay: 77.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 558.48 Mbit/s
95th percentile per-packet one-way delay: 77.488 ms
Loss rate: 0.00%
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 12:21:07
End at: 2020-02-18 12:21:37
Local clock offset: -0.015 ms
Remote clock offset: -1.316 ms

# Below is generated by plot.py at 2020-02-18 14:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.11 Mbit/s
95th percentile per-packet one-way delay: 89.909 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 509.11 Mbit/s
95th percentile per-packet one-way delay: 89.909 ms
Loss rate: 0.08%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2020-02-18 10:08:45
End at: 2020-02-18 10:09:15
Local clock offset: -0.029 ms
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2020-02-18 14:32:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.41 Mbit/s
95th percentile per-packet one-way delay: 244.367 ms
Loss rate: 8.06%
-- Flow 1:
Average throughput: 342.41 Mbit/s
95th percentile per-packet one-way delay: 244.367 ms
Loss rate: 8.06%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2020-02-18 10:43:25
End at: 2020-02-18 10:43:55
Local clock offset: ~0.088 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2020-02-18 14:33:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.84 Mbit/s
95th percentile per-packet one-way delay: 221.096 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 362.84 Mbit/s
95th percentile per-packet one-way delay: 221.096 ms
Loss rate: 5.10%
Run 2: Report of PCC-Allegro — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 382.42 Mbit/s)
- Flow 1 egress (mean 362.84 Mbit/s)

![Packet Delay Graph]

- Flow 1 (95th percentile 221.10 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-02-18 11:17:26
End at: 2020-02-18 11:17:56
Local clock offset: -0.085 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2020-02-18 14:36:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 398.63 Mbit/s
95th percentile per-packet one-way delay: 214.446 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 398.63 Mbit/s
95th percentile per-packet one-way delay: 214.446 ms
Loss rate: 3.00%
Run 3: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 411.01 Mbit/s)  
Flow 1 egress (mean 398.63 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 214.45 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2020-02-18 11:51:47  
End at: 2020-02-18 11:52:17  
Local clock offset: -0.0 ms  
Remote clock offset: 1.123 ms

# Below is generated by plot.py at 2020-02-18 14:36:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 316.54 Mbit/s  
95th percentile per-packet one-way delay: 229.490 ms  
Loss rate: 2.40%  
-- Flow 1:  
Average throughput: 316.54 Mbit/s  
95th percentile per-packet one-way delay: 229.490 ms  
Loss rate: 2.40%
Run 4: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 324.31 Mbit/s)
- **Flow 1 egress** (mean 318.54 Mbit/s)

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

- **Flow 1** (95th percentile 229.49 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2020-02-18 12:26:50
End at: 2020-02-18 12:27:20
Local clock offset: -0.021 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.76 Mbit/s
95th percentile per-packet one-way delay: 223.844 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 350.76 Mbit/s
95th percentile per-packet one-way delay: 223.844 ms
Loss rate: 3.89%
Run 5: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2020-02-18 10:16:37
End at: 2020-02-18 10:17:07
Local clock offset: -0.041 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.67 Mbit/s
95th percentile per-packet one-way delay: 221.492 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 222.67 Mbit/s
95th percentile per-packet one-way delay: 221.492 ms
Loss rate: 2.92%
Run 1: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 229.37 Mbit/s)**
- **Flow 1 egress (mean 222.67 Mbit/s)**

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

- **Flow 1 (95th percentile 221.49 ms)**
Run 2: Statistics of PCC-Expr

Start at: 2020-02-18 10:51:10
End at: 2020-02-18 10:51:40
Local clock offset: -0.153 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.09 Mbit/s
95th percentile per-packet one-way delay: 211.787 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 250.09 Mbit/s
95th percentile per-packet one-way delay: 211.787 ms
Loss rate: 4.00%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2020-02-18 11:25:01
End at: 2020-02-18 11:25:31
Local clock offset: -0.066 ms
Remote clock offset: -1.278 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 246.272 ms
Loss rate: 15.19%
-- Flow 1:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 246.272 ms
Loss rate: 15.19%
Run 3: Report of PCC-Expr — Data Link

![Graph showing throughput and packet latency over time for Flow 1. The throughput graph displays two lines, one for ingress with a mean of 262.64 Mbit/s and another for egress with a mean of 222.70 Mbit/s. The packet latency graph shows a line indicating the 95th percentile is 246.27 ms.](image-url)
Run 4: Statistics of PCC-Expr

Start at: 2020-02-18 11:59:33
End at: 2020-02-18 12:00:03
Local clock offset: 0.04 ms
Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.63 Mbit/s
95th percentile per-packet one-way delay: 180.406 ms
Loss rate: 6.56%
-- Flow 1:
Average throughput: 264.63 Mbit/s
95th percentile per-packet one-way delay: 180.406 ms
Loss rate: 6.56%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 12:34:37
End at: 2020-02-18 12:35:07
Local clock offset: -0.018 ms
Remote clock offset: 0.617 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.24 Mbit/s
95th percentile per-packet one-way delay: 143.913 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 223.24 Mbit/s
95th percentile per-packet one-way delay: 143.913 ms
Loss rate: 0.17%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 223.62 Mbit/s)
- Flow 1 egress (mean 223.24 Mbit/s)

Flow 1 (95th percentile 143.91 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-18 10:23:28
End at: 2020-02-18 10:23:58
Local clock offset: -0.057 ms
Remote clock offset: -0.184 ms
Run 1: Report of QUIC Cubic — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 0.01 Mbits/s)
- Flow 1 egress (mean 0.01 Mbits/s)

![Graph of Packet Delay vs Time](image2)

- Flow 1 (95th percentile 60.49 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2020-02-18 10:58:06
End at: 2020-02-18 10:58:36
Local clock offset: -0.154 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 62.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 62.921 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2020-02-18 11:31:53
End at: 2020-02-18 11:32:23
Local clock offset: -0.026 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.50 Mbit/s
95th percentile per-packet one-way delay: 62.414 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.50 Mbit/s
95th percentile per-packet one-way delay: 62.414 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 44.50 Mbit/s)
- Flow 1 egress (mean 44.50 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 62.41 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2020-02-18 12:06:22
End at: 2020-02-18 12:06:52
Local clock offset: -0.024 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 46.46 Mbit/s
  95th percentile per-packet one-way delay: 59.838 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 46.46 Mbit/s
  95th percentile per-packet one-way delay: 59.838 ms
  Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2020-02-18 12:41:29
End at: 2020-02-18 12:41:59
Local clock offset: -0.027 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 60.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 60.148 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2020-02-18 10:22:20  
End at: 2020-02-18 10:22:50  
Local clock offset: -0.051 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-02-18 14:42:14  
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 60.087 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 60.087 ms
  Loss rate: 0.00%
Run 1: 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: Per-packet one-way delay (ms)]

- Flow 1 (95th percentile 60.09 ms)
Run 2: Statistics of SCReAM

Start at: 2020-02-18 10:56:58
End at: 2020-02-18 10:57:28
Local clock offset: -0.127 ms
Remote clock offset: -0.705 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.026 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph showing throughput and delay over time.]

**Throughput (Mbps):**
- Flow 1 ingress (mean 0.22 Mbps)
- Flow 1 egress (mean 0.22 Mbps)

**Delay (ms):**
- Flow 1 (95th percentile 65.03 ms)
Run 3: Statistics of SCReAM

Start at: 2020-02-18 11:30:45
End at: 2020-02-18 11:31:15
Local clock offset: ~0.029 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.215 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graphs showing network throughput and packet delay over time.](image)
Run 4: Statistics of SCReAM

Start at: 2020-02-18 12:05:14
End at: 2020-02-18 12:05:44
Local clock offset: -0.004 ms
Remote clock offset: -0.786 ms

# Below is generated by plot.py at 2020-02-18 14:42:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.320 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2020-02-18 12:40:21
End at: 2020-02-18 12:40:51
Local clock offset: -0.024 ms
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2020-02-18 14:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.579 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.579 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

![Graph of network traffic and latency over time.]

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

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 62.58 ms)
Run 1: Statistics of Sprout

Start at: 2020-02-18 10:00:21
End at: 2020-02-18 10:00:51
Local clock offset: 0.004 ms
Remote clock offset: 0.655 ms

# Below is generated by plot.py at 2020-02-18 14:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 61.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 61.486 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph showing network performance metrics over time.](image)
Run 2: Statistics of Sprout

Start at: 2020-02-18 10:34:58
End at: 2020-02-18 10:35:28
Local clock offset: -0.035 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2020-02-18 14:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 60.994 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 60.994 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

- Flow 1 ingress (mean 6.77 Mbit/s)
- Flow 1 egress (mean 6.77 Mbit/s)

- Flow 1 (95th percentile 60.99 ms)
Run 3: Statistics of Sprout

Start at: 2020-02-18 11:09:58
End at: 2020-02-18 11:10:28
Local clock offset: -0.178 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2020-02-18 14:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 64.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 64.093 ms
Loss rate: 0.00%
Run 4: Statistics of Sprout

Start at: 2020-02-18 11:43:21
End at: 2020-02-18 11:43:51
Local clock offset: -0.024 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2020-02-18 14:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 61.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 61.043 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2020-02-18 12:18:22
End at: 2020-02-18 12:18:52
Local clock offset: -0.018 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2020-02-18 14:42:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 60.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.94 Mbit/s
95th percentile per-packet one-way delay: 60.816 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 6.94 Mbit/s)
- Flow 1 egress (mean 6.94 Mbit/s)

- Per packet error rate and delay (95th percentile 60.82 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2020-02-18 10:04:39
End at: 2020-02-18 10:05:09
Local clock offset: 0.03 ms
Remote clock offset: 0.534 ms

# Below is generated by plot.py at 2020-02-18 14:46:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.44 Mbit/s
95th percentile per-packet one-way delay: 66.504 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 223.44 Mbit/s
95th percentile per-packet one-way delay: 66.504 ms
Loss rate: 0.01%
Run 1: Report of TaoVA-100x — Data Link

![Graph 1: Throughput vs. Time]

![Graph 2: Per-Packet One-Way Delay vs. Time]

Flow 1 ingress (mean 223.42 Mbit/s)  Flow 1 egress (mean 223.44 Mbit/s)
Run 2: Statistics of TaoVA-100x

Start at: 2020-02-18 10:39:16
End at: 2020-02-18 10:39:46
Local clock offset: -0.114 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2020-02-18 14:46:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.69 Mbit/s
95th percentile per-packet one-way delay: 66.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.69 Mbit/s
95th percentile per-packet one-way delay: 66.044 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 212.70 Mbps)
- Flow 1 egress (mean 212.69 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 66.04 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2020-02-18 11:13:23
End at: 2020-02-18 11:13:53
Local clock offset: -0.143 ms
Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2020-02-18 14:46:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.70 Mbit/s
95th percentile per-packet one-way delay: 64.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.70 Mbit/s
95th percentile per-packet one-way delay: 64.942 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress** (mean 220.69 Mbit/s)
- **Flow 1 egress** (mean 220.70 Mbit/s)

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

- **Flow 1** (95th percentile 64.34 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2020-02-18 11:47:35
End at: 2020-02-18 11:48:05
Local clock offset: 0.003 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2020-02-18 14:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.60 Mbit/s
95th percentile per-packet one-way delay: 61.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.60 Mbit/s
95th percentile per-packet one-way delay: 61.079 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2020-02-18 12:22:40
End at: 2020-02-18 12:23:10
Local clock offset: -0.007 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2020-02-18 14:47:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.43 Mbit/s
95th percentile per-packet one-way delay: 60.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.43 Mbit/s
95th percentile per-packet one-way delay: 60.672 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2020-02-18 10:28:58
End at: 2020-02-18 10:29:28
Local clock offset: -0.095 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2020-02-18 14:49:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.01 Mbit/s
95th percentile per-packet one-way delay: 182.407 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 429.01 Mbit/s
95th percentile per-packet one-way delay: 182.407 ms
Loss rate: 0.60%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2020-02-18 11:03:52
End at: 2020-02-18 11:04:22
Local clock offset: -0.165 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2020-02-18 14:50:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.53 Mbit/s
95th percentile per-packet one-way delay: 108.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 420.53 Mbit/s
95th percentile per-packet one-way delay: 108.918 ms
Loss rate: 0.00%
Run 3: Statistics of TCP Vegas

Start at: 2020-02-18 11:37:34
End at: 2020-02-18 11:38:04
Local clock offset: -0.025 ms
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2020-02-18 14:51:09
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 431.80 Mbit/s
  95th percentile per-packet one-way delay: 77.074 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 431.80 Mbit/s
  95th percentile per-packet one-way delay: 77.074 ms
  Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time.](image-url)
Run 4: Statistics of TCP Vegas

Start at: 2020-02-18 12:12:10
End at: 2020-02-18 12:12:40
Local clock offset: -0.027 ms
Remote clock offset: -0.396 ms

# Below is generated by plot.py at 2020-02-18 14:53:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.88 Mbit/s
95th percentile per-packet one-way delay: 73.031 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 354.88 Mbit/s
95th percentile per-packet one-way delay: 73.031 ms
Loss rate: 0.00%
RUN 4: REPORT OF TCP VEGA — DATA LINK

![Graph of throughput over time for Flow 1 ingress and egress with mean throughput of 354.87 Mbit/s and 354.88 Mbit/s respectively.]

![Graph of packet delay over time for Flow 1 with 95th percentile of 73.03 ms.]
Run 5: Statistics of TCP Vegas

Start at: 2020-02-18 12:47:13
End at: 2020-02-18 12:47:43
Local clock offset: -0.035 ms
Remote clock offset: 0.704 ms

# Below is generated by plot.py at 2020-02-18 14:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.51 Mbit/s
95th percentile per-packet one-way delay: 84.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 437.51 Mbit/s
95th percentile per-packet one-way delay: 84.932 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2020-02-18 10:27:33
End at: 2020-02-18 10:28:03
Local clock offset: -0.089 ms
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2020-02-18 14:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.69 Mbit/s
95th percentile per-packet one-way delay: 190.678 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 179.69 Mbit/s
95th percentile per-packet one-way delay: 190.678 ms
Loss rate: 0.13%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2020-02-18 11:02:29
End at: 2020-02-18 11:02:59
Local clock offset: -0.135 ms
Remote clock offset: -1.014 ms

# Below is generated by plot.py at 2020-02-18 14:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.56 Mbit/s
95th percentile per-packet one-way delay: 162.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.56 Mbit/s
95th percentile per-packet one-way delay: 162.724 ms
Loss rate: 0.00%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2020-02-18 11:36:13
End at: 2020-02-18 11:36:43
Local clock offset: -0.037 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2020-02-18 14:55:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.15 Mbit/s
95th percentile per-packet one-way delay: 145.855 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 146.15 Mbit/s
95th percentile per-packet one-way delay: 145.855 ms
Loss rate: 0.16%
Run 3: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 146.42 Mbit/s)
- Flow 1 egress (mean 146.15 Mbit/s)

![Graph 2: Round trip time (ms)]

- Flow 1 (95th percentile 145.85 ms)

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Run 4: Statistics of Verus

Start at: 2020-02-18 12:10:45
End at: 2020-02-18 12:11:15
Local clock offset: -0.01 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2020-02-18 14:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.91 Mbit/s
95th percentile per-packet one-way delay: 221.369 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 184.91 Mbit/s
95th percentile per-packet one-way delay: 221.369 ms
Loss rate: 1.10%
Run 4: Report of Verus — Data Link

![Graph of throughput and packet delay over time]

- Flow 1 ingress (mean 186.97 Mbit/s)
- Flow 1 egress (mean 184.91 Mbit/s)
Run 5: Statistics of Verus

Start at: 2020-02-18 12:45:51
End at: 2020-02-18 12:46:21
Local clock offset: -0.036 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2020-02-18 14:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.87 Mbit/s
95th percentile per-packet one-way delay: 92.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.87 Mbit/s
95th percentile per-packet one-way delay: 92.219 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

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

[Graph showing packet delay over time with one line indicating flow ingress delay]

Flow 1 ingress (mean 147.88 Mbit/s)  Flow 1 egress (mean 147.87 Mbit/s)

Flow 1 (95th percentile 92.22 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2020-02-18 10:06:08
End at: 2020-02-18 10:06:38
Local clock offset: -0.013 ms
Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2020-02-18 14:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.42 Mbit/s
95th percentile per-packet one-way delay: 149.645 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 268.42 Mbit/s
95th percentile per-packet one-way delay: 149.645 ms
Loss rate: 0.03%
Run 1: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 268.44 Mbit/s)**
- **Flow 1 egress (mean 268.42 Mbit/s)**

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

- **Flow 1 (95th percentile 149.65 ms)**
Run 2: Statistics of PCC-Vivace

Start at: 2020-02-18 10:40:43
End at: 2020-02-18 10:41:13
Local clock offset: -0.075 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2020-02-18 14:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.72 Mbit/s
95th percentile per-packet one-way delay: 61.317 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 330.72 Mbit/s
95th percentile per-packet one-way delay: 61.317 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Start at: 2020-02-18 11:14:52
End at: 2020-02-18 11:15:22
Local clock offset: -0.08 ms
Remote clock offset: -0.588 ms

# Below is generated by plot.py at 2020-02-18 14:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.95 Mbit/s
95th percentile per-packet one-way delay: 87.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.95 Mbit/s
95th percentile per-packet one-way delay: 87.735 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

Graph 1: Throughput (Mbps) over time
- Flow 1 ingress (mean 211.95 Mbit/s)
- Flow 1 egress (mean 211.95 Mbit/s)

Graph 2: Per-packet one-way delay (ms) over time
- Flow 1 (95th percentile 87.73 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2020-02-18 11:49:04
End at: 2020-02-18 11:49:34
Local clock offset: -0.022 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2020-02-18 14:57:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.51 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 348.51 Mbit/s
95th percentile per-packet one-way delay: 64.032 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 348.50 Mbit/s)
- Flow 1 egress (mean 348.51 Mbit/s)
Run 5: Statistics of PCC-Vivace

Start at: 2020-02-18 12:24:10
End at: 2020-02-18 12:24:40
Local clock offset: -0.023 ms
Remote clock offset: -1.287 ms

# Below is generated by plot.py at 2020-02-18 14:57:38
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 315.49 Mbit/s
  95th percentile per-packet one-way delay: 217.141 ms
  Loss rate: 0.40%
-- Flow 1:
  Average throughput: 315.49 Mbit/s
  95th percentile per-packet one-way delay: 217.141 ms
  Loss rate: 0.40%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2020-02-18 10:18:05
End at: 2020-02-18 10:18:35
Local clock offset: -0.026 ms
Remote clock offset: 1.196 ms
Run 1: Report of WebRTC media — Data Link

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

![Graph showing packet delay distribution with a dot representing the 95th percentile at 65.42 ms.]

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Run 2: Statistics of WebRTC media

Start at: 2020-02-18 10:52:41
End at: 2020-02-18 10:53:11
Local clock offset: -0.161 ms
Remote clock offset: 0.566 ms
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2020-02-18 11:26:30
End at: 2020-02-18 11:27:00
Local clock offset: -0.063 ms
Remote clock offset: -0.58 ms
Run 3: Report of WebRTC media — Data Link

![Graph showing throughput over time](image1.png)

- **Flow 1 ingress** (mean 0.18 Mbit/s)
- **Flow 1 egress** (mean 0.18 Mbit/s)

![Graph showing packet delay over time](image2.png)

- **Flow 1** (95th percentile 59.67 ms)
Run 4: Statistics of WebRTC media

Start at: 2020-02-18 12:01:06
End at: 2020-02-18 12:01:36
Local clock offset: 0.002 ms
Remote clock offset: 0.119 ms
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput over time for different flows]

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

![Graph showing packet delay over time for flow 1]

- **Flow 1 (95th percentile delay 60.33 ms)**

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Run 5: Statistics of WebRTC media

Start at: 2020-02-18 12:36:05
End at: 2020-02-18 12:36:35
Local clock offset: -0.033 ms
Remote clock offset: -0.048 ms
Run 5: Report of WebRTC media — Data Link