Pantheon Report

Generated at 2020-04-17 09:24:41 (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 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a5932a94dfafdf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7e9a324d519
third_party/fillp-sheep @ 0e5bb722943babcd2b09d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e3b032143cedbfe58e562f4
third_party/indigo @ 2601c92e4a9d58d38cd4dfe0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce65b7cf3cf
third_party/muses @ 5ce721187ad823da20955377730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d1b623c09l65fsec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08fabe92c4eb24f974ab
third_party/proto-quic @ 7761f1fa82733a86b42f1bc8143ebc978f3ccf42
third_party/scream-reproduce @ f099118d1421aa3131bf1ff1964974e1da3dbdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutb2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a949
M src/verus.hpp
M tools/plot.py
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) flow 1</th>
<th>mean 95th-%ile delay (ms) flow 1</th>
<th>mean loss rate (%) flow 1</th>
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<tbody>
<tr>
<td>TCP BBR</td>
<td>5</td>
<td>590.13</td>
<td>180.77</td>
<td>6.42</td>
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<td>Copa</td>
<td>5</td>
<td>245.26</td>
<td>85.86</td>
<td>0.01</td>
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<td>TCP Cubic</td>
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<td>361.12</td>
<td>174.75</td>
<td>0.45</td>
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<td>FillP</td>
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<td>899.04</td>
<td>107.77</td>
<td>0.66</td>
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<td>859.14</td>
<td>94.60</td>
<td>0.18</td>
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<td>61.15</td>
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<td>161.79</td>
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<td>N/A</td>
<td>N/A</td>
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Run 1: Statistics of TCP BBR

Start at: 2020-04-17 04:45:28
End at: 2020-04-17 04:45:58
Local clock offset: 0.251 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 646.65 Mbit/s
95th percentile per-packet one-way delay: 176.623 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 646.65 Mbit/s
95th percentile per-packet one-way delay: 176.623 ms
Loss rate: 8.64%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2020-04-17 05:20:33
End at: 2020-04-17 05:21:03
Local clock offset: -0.148 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.18 Mbit/s
95th percentile per-packet one-way delay: 193.853 ms
Loss rate: 8.82%
-- Flow 1:
Average throughput: 595.18 Mbit/s
95th percentile per-packet one-way delay: 193.853 ms
Loss rate: 8.82%
Run 2: Report of TCP BBR — Data Link

Graph 1: Throughput (Mbps) vs Time (s)
- Flow 1 ingress (mean 652.73 Mbit/s)
- Flow 1 egress (mean 595.18 Mbit/s)

Graph 2: Per-packet two-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 193.85 ms)
Run 3: Statistics of TCP BBR

Start at: 2020-04-17 05:55:19
End at: 2020-04-17 05:55:49
Local clock offset: -0.061 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.47 Mbit/s
95th percentile per-packet one-way delay: 169.782 ms
Loss rate: 5.10%
-- Flow 1:
Average throughput: 595.47 Mbit/s
95th percentile per-packet one-way delay: 169.782 ms
Loss rate: 5.10%
Run 3: Report of TCP BBR — Data Link

![Throughput Graph](image1)

- **Flow 1 ingress (mean 627.53 Mbit/s)**
- **Flow 1 egress (mean 595.47 Mbit/s)**

![Delay Graph](image2)

- **Flow 1 (95th percentile 169.78 ms)**
Run 4: Statistics of TCP BBR

Start at: 2020-04-17 06:29:55
End at: 2020-04-17 06:30:25
Local clock offset: -0.028 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.54 Mbit/s
95th percentile per-packet one-way delay: 178.321 ms
Loss rate: 6.99%
-- Flow 1:
Average throughput: 583.54 Mbit/s
95th percentile per-packet one-way delay: 178.321 ms
Loss rate: 6.99%
Run 4: Report of TCP BBR — Data Link

[Graphs showing throughput and packet delay over time for different flows.]
Run 5: Statistics of TCP BBR

Start at: 2020-04-17 07:04:35
End at: 2020-04-17 07:05:05
Local clock offset: -0.108 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 529.83 Mbit/s
95th percentile per-packet one-way delay: 185.249 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 529.83 Mbit/s
95th percentile per-packet one-way delay: 185.249 ms
Loss rate: 2.55%
Run 5: Report of TCP BBR — Data Link

[Graph showing throughput and packet delay over time]

Throughput (Mbps) vs. Time (s)
- Flow 1 ingress (mean 543.77 Mbps)
- Flow 1 egress (mean 529.83 Mbps)

Packet delay (ms) vs. Time (s)
- Flow 1 (95th percentile 185.25 ms)
Run 1: Statistics of Copa

Start at: 2020-04-17 04:30:39
End at: 2020-04-17 04:31:09
Local clock offset: 0.264 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.51 Mbit/s
95th percentile per-packet one-way delay: 78.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 264.51 Mbit/s
95th percentile per-packet one-way delay: 78.071 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2020-04-17 05:05:29
End at: 2020-04-17 05:05:59
Local clock offset: -0.083 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.88 Mbit/s
95th percentile per-packet one-way delay: 83.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 172.88 Mbit/s
95th percentile per-packet one-way delay: 83.974 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

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

- Flow 1 ingress (mean 172.89 Mbps)
- Flow 1 egress (mean 172.88 Mbps)

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

- Flow 1 (95th percentile 83.97 ms)
Run 3: Statistics of Copa

Start at: 2020-04-17 05:40:29
End at: 2020-04-17 05:40:59
Local clock offset: −0.165 ms
Remote clock offset: −0.159 ms

# Below is generated by plot.py at 2020-04-17 07:34:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.76 Mbit/s
95th percentile per-packet one-way delay: 86.290 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 295.76 Mbit/s
95th percentile per-packet one-way delay: 86.290 ms
Loss rate: 0.06%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2020-04-17 06:15:02
End at: 2020-04-17 06:15:32
Local clock offset: -0.024 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2020-04-17 07:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.92 Mbit/s
95th percentile per-packet one-way delay: 92.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.92 Mbit/s
95th percentile per-packet one-way delay: 92.403 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2020-04-17 06:49:42
End at: 2020-04-17 06:50:12
Local clock offset: 0.26 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2020-04-17 07:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.24 Mbit/s
95th percentile per-packet one-way delay: 88.552 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.24 Mbit/s
95th percentile per-packet one-way delay: 88.552 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 262.25 Mbit/s)**
- **Flow 1 egress (mean 262.24 Mbit/s)**

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

- **Flow 1 (95th percentile 88.55 ms)**
Run 1: Statistics of TCP Cubic

Start at: 2020-04-17 04:19:53
End at: 2020-04-17 04:20:23
Local clock offset: -0.066 ms
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2020-04-17 07:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.99 Mbit/s
95th percentile per-packet one-way delay: 158.149 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 217.99 Mbit/s
95th percentile per-packet one-way delay: 158.149 ms
Loss rate: 0.88%
Run 1: Report of TCP Cubic — Data Link

[Graphs showing network performance metrics over time]

- Flow 1 ingress (mean 219.96 Mbit/s)
- Flow 1 egress (mean 217.99 Mbit/s)

[Graphs showing packet delay over time]

- Flow 1 (95th percentile 158.15 ms)
Run 2: Statistics of TCP Cubic

Start at: 2020-04-17 04:54:29
End at: 2020-04-17 04:54:59
Local clock offset: -0.119 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2020-04-17 07:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.81 Mbit/s
95th percentile per-packet one-way delay: 171.944 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 408.81 Mbit/s
95th percentile per-packet one-way delay: 171.944 ms
Loss rate: 0.39%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2020-04-17 05:29:28
End at: 2020-04-17 05:29:58
Local clock offset: -0.112 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2020-04-17 07:40:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.93 Mbit/s
95th percentile per-packet one-way delay: 191.713 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 384.93 Mbit/s
95th percentile per-packet one-way delay: 191.713 ms
Loss rate: 0.31%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2020-04-17 06:04:07
End at: 2020-04-17 06:04:37
Local clock offset: -0.045 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2020-04-17 07:41:26
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 436.63 Mbit/s
  95th percentile per-packet one-way delay: 165.365 ms
  Loss rate: 0.29%
-- Flow 1:
  Average throughput: 436.63 Mbit/s
  95th percentile per-packet one-way delay: 165.365 ms
  Loss rate: 0.29%
Run 4: Report of TCP Cubic — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 437.97 Mbps)**
- **Flow 1 egress (mean 436.63 Mbps)**

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

- **Flow 1 (95th percentile 165.37 ms)**
Run 5: Statistics of TCP Cubic

Start at: 2020-04-17 06:38:38
End at: 2020-04-17 06:39:08
Local clock offset: -0.086 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2020-04-17 07:41:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.25 Mbit/s
95th percentile per-packet one-way delay: 186.586 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 357.25 Mbit/s
95th percentile per-packet one-way delay: 186.586 ms
Loss rate: 0.38%
Run 5: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time for TCP Cubic flow 1 with mean ingress and egress rates.]

- Flow 1 ingress (mean 358.67 Mbit/s)
- Flow 1 egress (mean 357.25 Mbit/s)
Run 1: Statistics of FillP

Start at: 2020-04-17 04:32:11
End at: 2020-04-17 04:32:41
Local clock offset: -0.136 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2020-04-17 07:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 841.25 Mbit/s
95th percentile per-packet one-way delay: 117.139 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 841.25 Mbit/s
95th percentile per-packet one-way delay: 117.139 ms
Loss rate: 0.33%
Run 1: Report of FillP — Data Link

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

- Flow 1 ingress (mean 844.15 Mbps)
- Flow 1 egress (mean 841.25 Mbps)

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

- Flow 1 (95th percentile 117.14 ms)
Run 2: Statistics of FillP

Start at: 2020-04-17 05:06:52
End at: 2020-04-17 05:07:22
Local clock offset: -0.11 ms
Remote clock offset: -0.715 ms

# Below is generated by plot.py at 2020-04-17 07:59:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 921.99 Mbit/s
95th percentile per-packet one-way delay: 79.467 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 921.99 Mbit/s
95th percentile per-packet one-way delay: 79.467 ms
Loss rate: 0.37%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2020-04-17 05:42:05
End at: 2020-04-17 05:42:35
Local clock offset: -0.196 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2020-04-17 07:59:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 907.20 Mbit/s
95th percentile per-packet one-way delay: 122.844 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 907.20 Mbit/s
95th percentile per-packet one-way delay: 122.844 ms
Loss rate: 1.07%
Run 3: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 916.95 Mbit/s)**
- **Flow 1 egress (mean 907.20 Mbit/s)**
Run 4: Statistics of FillP

Start at: 2020-04-17 06:16:32
End at: 2020-04-17 06:17:02
Local clock offset: 0.012 ms
Remote clock offset: 1.156 ms

# Below is generated by plot.py at 2020-04-17 08:02:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 918.55 Mbit/s
95th percentile per-packet one-way delay: 114.198 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 918.55 Mbit/s
95th percentile per-packet one-way delay: 114.198 ms
Loss rate: 1.15%
Run 4: Report of FillP — Data Link

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

- Flow 1 ingress (mean 930.80 Mbps)
- Flow 1 egress (mean 918.55 Mbps)

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

- Flow 1 (95th percentile 114.20 ms)
Run 5: Statistics of FillP

Start at: 2020-04-17 06:51:14
End at: 2020-04-17 06:51:44
Local clock offset: 0.242 ms
Remote clock offset: -1.346 ms

# Below is generated by plot.py at 2020-04-17 08:02:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 906.20 Mbit/s
95th percentile per-packet one-way delay: 105.194 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 906.20 Mbit/s
95th percentile per-packet one-way delay: 105.194 ms
Loss rate: 0.40%
Run 5: Report of FillIP — Data Link

![Graph showing throughput and packet delay over time]
Run 1: Statistics of FillP-Sheep

Start at: 2020-04-17 04:18:07
End at: 2020-04-17 04:18:37
Local clock offset: 0.286 ms
Remote clock offset: 1.185 ms

# Below is generated by plot.py at 2020-04-17 08:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 952.14 Mbit/s
95th percentile per-packet one-way delay: 75.258 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 952.14 Mbit/s
95th percentile per-packet one-way delay: 75.258 ms
Loss rate: 0.01%
Run 1: Report of FillP-Sheep — Data Link

![Graph of Throughput vs Time](image1)

- **Flow 1 Ingress (mean 952.94 Mbits/s)**
- **Flow 1 Egress (mean 952.14 Mbits/s)**

![Graph of Per-sOCKET one-way Delay vs Time](image2)

- **Flow 1 (95th percentile 75.26 ms)**

46
Run 2: Statistics of FillP-Sheep

Start at: 2020-04-17 04:52:41
End at: 2020-04-17 04:53:11
Local clock offset: -0.11 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-04-17 08:04:00
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 972.46 Mbit/s
  95th percentile per-packet one-way delay: 73.052 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 972.46 Mbit/s
  95th percentile per-packet one-way delay: 73.052 ms
  Loss rate: 0.00%
Run 2: Report of FillP-Sheep — Data Link

![Graph of throughput over time with 95th percentile delay]

- Flow 1 ingress (mean 972.51 Mbit/s)
- Flow 1 egress (mean 972.46 Mbit/s)
Run 3: Statistics of FillP-Sheep

Start at: 2020-04-17 05:27:44
End at: 2020-04-17 05:28:14
Local clock offset: 0.208 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2020-04-17 08:04:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 893.42 Mbit/s
95th percentile per-packet one-way delay: 91.860 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 893.42 Mbit/s
95th percentile per-packet one-way delay: 91.860 ms
Loss rate: 0.52%
Run 3: Report of FillP-Sheep — Data Link

![Graph showing network traffic over time]

- **Flow 1 ingress (mean 898.09 Mb/s)**
- **Flow 1 egress (mean 893.42 Mb/s)**

![Graph showing packet delay over time]

- **Flow 1 (95th percentile 91.86 ms)**
Run 4: Statistics of FillP-Sheep

Start at: 2020-04-17 06:02:30
End at: 2020-04-17 06:03:00
Local clock offset: -0.082 ms
Remote clock offset: -0.757 ms

# Below is generated by plot.py at 2020-04-17 08:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 726.87 Mbit/s
95th percentile per-packet one-way delay: 119.539 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 726.87 Mbit/s
95th percentile per-packet one-way delay: 119.539 ms
Loss rate: 0.14%
Run 4: Report of FillP-Sheep — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 5: Statistics of FillP-Sheep

Start at: 2020-04-17 06:37:00
End at: 2020-04-17 06:37:30
Local clock offset: -0.106 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 750.83 Mbit/s
95th percentile per-packet one-way delay: 113.292 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 750.83 Mbit/s
95th percentile per-packet one-way delay: 113.292 ms
Loss rate: 0.25%
Run 5: Report of FillP-Sheep — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 Ingress (mean 752.79 Mbps)**
- **Flow 1 Egress (mean 750.83 Mbps)**

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

- **Flow 1 (95th percentile 113.29 ms)**
Run 1: Statistics of Indigo

Start at: 2020-04-17 04:15:51
End at: 2020-04-17 04:16:21
Local clock offset: -0.071 ms
Remote clock offset: -0.057 ms
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2020-04-17 04:50:04
End at: 2020-04-17 04:50:35
Local clock offset: 0.287 ms
Remote clock offset: 0.494 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.56 Mbit/s
95th percentile per-packet one-way delay: 60.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.56 Mbit/s
95th percentile per-packet one-way delay: 60.693 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

![Graph 1: Throughput over time for different flows.]

![Graph 2: Packet delay over time for Flow 1.]

Flow 1 ingress (mean 227.55 Mbit/s) vs. Flow 1 egress (mean 227.56 Mbit/s)

Flow 1 (95th percentile 60.69 ms)
Run 3: Statistics of Indigo

Start at: 2020-04-17 05:25:07
End at: 2020-04-17 05:25:37
Local clock offset: -0.17 ms
Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.41 Mbit/s
95th percentile per-packet one-way delay: 64.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.41 Mbit/s
95th percentile per-packet one-way delay: 64.096 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2020-04-17 05:59:54
End at: 2020-04-17 06:00:24
Local clock offset: -0.045 ms
Remote clock offset: -1.342 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.02 Mbit/s
95th percentile per-packet one-way delay: 58.671 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.02 Mbit/s
95th percentile per-packet one-way delay: 58.671 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

### Throughput (Mbps)

- **Flow 1 ingress (mean 223.01 Mbps)**
- **Flow 1 egress (mean 223.02 Mbps)**

### Per packet end-to-end delay (ms)

- **Flow 1 (95th percentile 58.67 ms)**
Run 5: Statistics of Indigo

Start at: 2020-04-17 06:34:23
End at: 2020-04-17 06:34:53
Local clock offset: -0.088 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.64 Mbit/s
95th percentile per-packet one-way delay: 61.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.64 Mbit/s
95th percentile per-packet one-way delay: 61.133 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 228.63 Mbit/s)
- Flow 1 egress (mean 228.64 Mbit/s)

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

- Flow 1 (99th percentile 61.13 ms)
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-17 04:21:12
End at: 2020-04-17 04:21:42
Local clock offset: -0.055 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.67 Mbit/s
95th percentile per-packet one-way delay: 77.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 607.67 Mbit/s
95th percentile per-packet one-way delay: 77.802 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC3 — Data Link
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-17 04:55:57
End at: 2020-04-17 04:56:27
Local clock offset: -0.087 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-04-17 08:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.03 Mbit/s
95th percentile per-packet one-way delay: 93.003 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 448.03 Mbit/s
95th percentile per-packet one-way delay: 93.003 ms
Loss rate: 0.02%
Run 2: Report of Indigo-MusesC3 — Data Link

---

**Throughput vs. Time (s):**

- Flow 1 ingress (mean 448.14 Mbit/s)
- Flow 1 egress (mean 448.03 Mbit/s)

**Per-packet one way delay vs. Time (s):**

- Flow 1 (95th percentile 93.00 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-17 05:30:55
End at: 2020-04-17 05:31:25
Local clock offset: -0.47 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2020-04-17 08:16:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.91 Mbit/s
95th percentile per-packet one-way delay: 80.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 554.91 Mbit/s
95th percentile per-packet one-way delay: 80.217 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC3 — Data Link

![Graph 1: Throughput Variations](image1)

- **Flow 1 ingress** (mean 554.89 Mbit/s)
- **Flow 1 egress** (mean 554.91 Mbit/s)

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

- **Flow 1** (95th percentile 80.22 ms)
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-04-17 06:05:36
End at: 2020-04-17 06:06:06
Local clock offset: 0.327 ms
Remote clock offset: -0.896 ms

# Below is generated by plot.py at 2020-04-17 08:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.08 Mbit/s
95th percentile per-packet one-way delay: 75.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 588.08 Mbit/s
95th percentile per-packet one-way delay: 75.387 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph of throughput and delay over time for Flow 1 ingo (mean 588.12 Mbit/s) and Flow 1 egress (mean 588.08 Mbit/s).]

![Graph of per-packet one-way delay (ms) over time for Flow 1 (95th percentile 75.39 ms).]
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-04-17 06:40:03
End at: 2020-04-17 06:40:33
Local clock offset: -0.096 ms
Remote clock offset: -0.614 ms

# Below is generated by plot.py at 2020-04-17 08:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 560.17 Mbit/s
95th percentile per-packet one-way delay: 81.623 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 560.17 Mbit/s
95th percentile per-packet one-way delay: 81.623 ms
Loss rate: 0.01%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-17 04:29:02
End at: 2020-04-17 04:29:33
Local clock offset: -0.114 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2020-04-17 08:22:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.20 Mbit/s
95th percentile per-packet one-way delay: 95.453 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 638.20 Mbit/s
95th percentile per-packet one-way delay: 95.453 ms
Loss rate: 0.02%
Run 1: Report of Indigo-MusesC5 — Data Link

![Graph of throughput over time]

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Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-17 05:03:54
End at: 2020-04-17 05:04:24
Local clock offset: -0.134 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2020-04-17 08:22:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 584.98 Mbit/s
95th percentile per-packet one-way delay: 99.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 584.98 Mbit/s
95th percentile per-packet one-way delay: 99.622 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link

![Graph of data link throughput over time with two lines representing ingress and egress data rates.]

**Graph Details:**
- **Y-axis:** Throughput (Mbit/s)
- **X-axis:** Time (s)
- Line 1: Flow 1 ingress (mean 584.96 Mbit/s)
- Line 2: Flow 1 egress (mean 584.98 Mbit/s)

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

**Graph Details:**
- **Y-axis:** Per-packet one-way delay (ms)
- **X-axis:** Time (s)
- **Legend:** Flow 1 (95th percentile 99.62 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-17 05:38:54
End at: 2020-04-17 05:39:24
Local clock offset: -0.19 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2020-04-17 08:23:15
# Datalink statistics
--- Total of 1 flow:
Average throughput: 582.13 Mbit/s
95th percentile per-packet one-way delay: 96.588 ms
Loss rate: 0.06%
--- Flow 1:
Average throughput: 582.13 Mbit/s
95th percentile per-packet one-way delay: 96.588 ms
Loss rate: 0.06%
Run 3: Report of Indigo-MusesC5 — Data Link

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**Throughput (Mbps)**

![Throughput Graph](image)

**Time (s)**

- **Flow 1 ingress (mean 582.52 Mbps)**
- **Flow 1 egress (mean 582.13 Mbps)**

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

![Delay Graph](image)

**Time (s)**

- **Flow 1 (95th percentile 96.59 ms)**
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-04-17 06:13:27
End at: 2020-04-17 06:13:57
Local clock offset: -0.024 ms
Remote clock offset: -1.287 ms

# Below is generated by plot.py at 2020-04-17 08:25:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 595.21 Mbit/s
95th percentile per-packet one-way delay: 92.002 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 595.21 Mbit/s
95th percentile per-packet one-way delay: 92.002 ms
Loss rate: 0.17%
Run 4: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and packet delay over time]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 596.29 Mbps)
  - Flow 1 egress (mean 595.21 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 92.00 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-04-17 06:48:06
End at: 2020-04-17 06:48:36
Local clock offset: -0.123 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2020-04-17 08:26:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.71 Mbit/s
95th percentile per-packet one-way delay: 110.227 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 587.71 Mbit/s
95th percentile per-packet one-way delay: 110.227 ms
Loss rate: 0.08%
Run 5: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress (mean 588.30 Mbps)**
- **Flow 1 egress (mean 587.71 Mbps)**

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

- **Flow 1 (95th percentile 110.23 ms)**
Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-17 04:35:01
End at: 2020-04-17 04:35:31
Local clock offset: -0.141 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2020-04-17 08:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 543.09 Mbit/s
95th percentile per-packet one-way delay: 97.702 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 543.09 Mbit/s
95th percentile per-packet one-way delay: 97.702 ms
Loss rate: 0.13%
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-17 05:09:48
End at: 2020-04-17 05:10:18
Local clock offset: -0.483 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2020-04-17 08:31:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 555.05 Mbit/s
95th percentile per-packet one-way delay: 83.742 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 555.05 Mbit/s
95th percentile per-packet one-way delay: 83.742 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

Graph 1: Throughput (kbps)

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

Legend:
- Blue dashed line: Flow 1 ingress (mean 555.64 Mbit/s)
- Blue solid line: Flow 1 egress (mean 555.05 Mbit/s)
- Blue star: Flow 1 (95th percentile 83.74 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-17 05:45:00
End at: 2020-04-17 05:45:30
Local clock offset: -0.148 ms
Remote clock offset: -1.398 ms

# Below is generated by plot.py at 2020-04-17 08:31:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.47 Mbit/s
95th percentile per-packet one-way delay: 79.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 567.47 Mbit/s
95th percentile per-packet one-way delay: 79.468 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesD — Data Link

![Graph showing throughput and packet delay over time](image1)

- **Flow 1 ingress (mean 567.44 Mbit/s)**
- **Flow 1 egress (mean 567.47 Mbit/s)**

![Graph showing packet delay distribution](image2)

- **Flow 1 (95th percentile 79.47 ms)**
Run 4: Statistics of Indigo-MusesD

Start at: 2020-04-17 06:19:28
End at: 2020-04-17 06:19:58
Local clock offset: -0.069 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2020-04-17 08:31:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.61 Mbit/s
95th percentile per-packet one-way delay: 87.148 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 452.61 Mbit/s
95th percentile per-packet one-way delay: 87.148 ms
Loss rate: 0.14%
Run 4: Report of Indigo-MusesD — Data Link
Run 5: Statistics of Indigo-MusesD

Start at: 2020-04-17 06:54:10
End at: 2020-04-17 06:54:40
Local clock offset: -0.119 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2020-04-17 08:32:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 510.06 Mbit/s
95th percentile per-packet one-way delay: 95.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 510.06 Mbit/s
95th percentile per-packet one-way delay: 95.783 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

[Graph of network throughput over time with legends for Flow 1 ingress (mean 510.14 Mbit/s) and Flow 1 egress (mean 510.06 Mbit/s)]

[Graph of network delay over time with legend for Flow 1 (95th percentile 95.78 ms)]
Run 1: Statistics of Indigo-MusesT

Start at: 2020-04-17 04:41:05
End at: 2020-04-17 04:41:35
Local clock offset: -0.111 ms
Remote clock offset: 0.571 ms

# Below is generated by plot.py at 2020-04-17 08:32:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 481.42 Mbit/s
95th percentile per-packet one-way delay: 109.964 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 481.42 Mbit/s
95th percentile per-packet one-way delay: 109.964 ms
Loss rate: 0.03%
Run 1: Report of Indigo-MusesT — Data Link

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

Start at: 2020-04-17 05:15:59
End at: 2020-04-17 05:16:29
Local clock offset: -0.125 ms
Remote clock offset: -0.699 ms

# Below is generated by plot.py at 2020-04-17 08:37:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.13 Mbit/s
95th percentile per-packet one-way delay: 114.199 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 631.13 Mbit/s
95th percentile per-packet one-way delay: 114.199 ms
Loss rate: 0.06%
Run 2: Report of Indigo-MusesT — Data Link
Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-17 05:50:55
End at: 2020-04-17 05:51:25
Local clock offset: -0.097 ms
Remote clock offset: -1.367 ms

# Below is generated by plot.py at 2020-04-17 08:37:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.85 Mbit/s
95th percentile per-packet one-way delay: 138.994 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 572.85 Mbit/s
95th percentile per-packet one-way delay: 138.994 ms
Loss rate: 0.29%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2020-04-17 06:25:34
End at: 2020-04-17 06:26:04
Local clock offset: 0.303 ms
Remote clock offset: 0.667 ms

# Below is generated by plot.py at 2020-04-17 08:37:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 460.70 Mbit/s
95th percentile per-packet one-way delay: 106.647 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 460.70 Mbit/s
95th percentile per-packet one-way delay: 106.647 ms
Loss rate: 0.05%
Run 4: Report of Indigo-MusesT — Data Link

![Graph showing data link performance](image1)

![Graph showing per-packet delay](image2)
Run 5: Statistics of Indigo-MusesT

Start at: 2020-04-17 07:00:12
End at: 2020-04-17 07:00:42
Local clock offset: 0.221 ms
Remote clock offset: -0.5 ms

# Below is generated by plot.py at 2020-04-17 08:41:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.36 Mbit/s
95th percentile per-packet one-way delay: 116.755 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 559.36 Mbit/s
95th percentile per-packet one-way delay: 116.755 ms
Loss rate: 0.15%
Run 5: Report of Indigo-MusesT — Data Link

[Graph showing throughput over time with annotations: Flow 1 ingress (mean 560.29 Mbit/s) and Flow 1 egress (mean 559.36 Mbit/s).]

[Graph showing per-packet end-to-end delay over time with annotations: Flow 1 (95th percentile 116.75 ms).]
Run 1: Statistics of LEDBAT

Start at: 2020-04-17 04:26:43
End at: 2020-04-17 04:27:13
Local clock offset: -0.133 ms
Remote clock offset: -1.403 ms

# Below is generated by plot.py at 2020-04-17 08:41:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 60.840 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.79 Mbit/s
95th percentile per-packet one-way delay: 60.840 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graph depicting throughput and delay over time for Run 1.]
Run 2: Statistics of LEDBAT

Start at: 2020-04-17 05:01:34
End at: 2020-04-17 05:02:04
Local clock offset: -0.473 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-04-17 08:41:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 59.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.93 Mbit/s
95th percentile per-packet one-way delay: 59.442 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

![Graph showing throughput over time with two distinct lines]

- Flow 1 ingress (mean 26.93 Mbit/s)
- Flow 1 egress (mean 26.93 Mbit/s)

![Graph showing per-packet round-trip delay over time]

- Flow 1 (95th percentile 59.44 ms)
Run 3: Statistics of LEDBAT

Start at: 2020-04-17 05:36:34
End at: 2020-04-17 05:37:04
Local clock offset: -0.139 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2020-04-17 08:41:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 28.47 Mbit/s
  95th percentile per-packet one-way delay: 59.101 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 28.47 Mbit/s
  95th percentile per-packet one-way delay: 59.101 ms
  Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2020-04-17 06:11:07
End at: 2020-04-17 06:11:37
Local clock offset: -0.0 ms
Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2020-04-17 08:41:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 59.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.97 Mbit/s
95th percentile per-packet one-way delay: 59.479 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2020-04-17 06:45:46
End at: 2020-04-17 06:46:16
Local clock offset: -0.132 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2020-04-17 08:41:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 59.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.49 Mbit/s
95th percentile per-packet one-way delay: 59.322 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 04:38:07
End at: 2020-04-17 04:38:37
Local clock offset: -0.125 ms
Remote clock offset: -0.711 ms

# Below is generated by plot.py at 2020-04-17 08:44:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.24 Mbit/s
95th percentile per-packet one-way delay: 74.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 594.24 Mbit/s
95th percentile per-packet one-way delay: 74.951 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link

![Graph showing network performance metrics: throughput and one-way delay over time.]

- **Throughput**: The graph illustrates the throughput over time, with data points indicating the network’s capacity to transfer data.
- **One-Way Delay**: The lower graph tracks the one-way delay, with a 95th percentile of 74.95 ms, indicating the latency at which 95% of packets travel through the network.
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 05:12:51
End at: 2020-04-17 05:13:21
Local clock offset: 0.232 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2020-04-17 08:45:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.78 Mbit/s
95th percentile per-packet one-way delay: 73.437 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 602.78 Mbit/s
95th percentile per-packet one-way delay: 73.437 ms
Loss rate: 0.04%
Run 2: Report of Muses Decision Tree — Data Link

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

- **Flow 1 ingress (mean 603.08 Mbit/s)**
- **Flow 1 egress (mean 602.78 Mbit/s)**

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

- **Flow 1 (95th percentile 73.44 ms)**

118
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 05:47:59
End at: 2020-04-17 05:48:29
Local clock offset: 0.227 ms
Remote clock offset: 0.61 ms

# Below is generated by plot.py at 2020-04-17 08:45:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 480.48 Mbit/s
95th percentile per-packet one-way delay: 63.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 480.48 Mbit/s
95th percentile per-packet one-way delay: 63.731 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 06:22:28
End at: 2020-04-17 06:22:58
Local clock offset: -0.369 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2020-04-17 08:46:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.17 Mbit/s
95th percentile per-packet one-way delay: 81.711 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 608.17 Mbit/s
95th percentile per-packet one-way delay: 81.711 ms
Loss rate: 0.03%
Run 4: Report of Muses, DecisionTree — Data Link

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

- Flow 1 ingress (mean 608.35 Mbit/s)
- Flow 1 egress (mean 608.17 Mbit/s)

![Graph 2: Network Latency Over Time](image2)

- Flow 1 (95th percentile 81.71 ms)
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 06:57:11
End at: 2020-04-17 06:57:41
Local clock offset: 0.25 ms
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2020-04-17 08:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.31 Mbit/s
95th percentile per-packet one-way delay: 76.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 589.31 Mbit/s
95th percentile per-packet one-way delay: 76.121 ms
Loss rate: 0.00%
Run 5: Report of Muses DecisionTree — Data Link

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

- **Flow 1 ingress (mean 589.37 Mbps)**
- **Flow 1 egress (mean 589.31 Mbps)**

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

- **Flow 1 (95th percentile 76.12 ms)**
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 04:42:35
End at: 2020-04-17 04:43:05
Local clock offset: -0.12 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2020-04-17 08:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 286.34 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 286.34 Mbit/s
95th percentile per-packet one-way delay: 154.684 ms
Loss rate: 1.72%
Run 1: Report of Muses_DecisionTreeH0 — Data Link

![Graphs showing throughput and packet delay over time for different network flows.]

- Flow 1 ingress (mean 291.39 Mbit/s)
- Flow 1 egress (mean 286.34 Mbit/s)
- Flow 1 (95th percentile 154.68 ms)
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 05:17:36
End at: 2020-04-17 05:18:06
Local clock offset: 0.201 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2020-04-17 08:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.85 Mbit/s
95th percentile per-packet one-way delay: 160.680 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 288.85 Mbit/s
95th percentile per-packet one-way delay: 160.680 ms
Loss rate: 1.90%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 05:52:29
End at: 2020-04-17 05:52:59
Local clock offset: -0.446 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2020-04-17 08:47:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.13 Mbit/s
95th percentile per-packet one-way delay: 182.197 ms
Loss rate: 7.54%
-- Flow 1:
Average throughput: 243.13 Mbit/s
95th percentile per-packet one-way delay: 182.197 ms
Loss rate: 7.54%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

[Graph 1: Throughput vs Time]

[Graph 2: Packet Delay vs Time]

Flow 1 ingress (mean 263.72 Mbit/s) — Flow 1 egress (mean 243.13 Mbit/s)

Flow 1 (95th percentile 182.20 ms)
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 06:27:03  
End at: 2020-04-17 06:27:33  
Local clock offset: -0.085 ms  
Remote clock offset: -0.107 ms  

# Below is generated by plot.py at 2020-04-17 08:48:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 282.30 Mbit/s  
95th percentile per-packet one-way delay: 156.201 ms  
Loss rate: 1.90%  
-- Flow 1:  
Average throughput: 282.30 Mbit/s  
95th percentile per-packet one-way delay: 156.201 ms  
Loss rate: 1.90%
Run 4: Report of Muses

**Decision Tree H0 — Data Link**

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

- Flow 1 ingress (mean 287.81 Mb/s)
- Flow 1 egress (mean 282.30 Mb/s)

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

- Flow 1 (95th percentile 156.20 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 07:01:46
End at: 2020-04-17 07:02:16
Local clock offset: 0.26 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2020-04-17 08:48:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.60 Mbit/s
95th percentile per-packet one-way delay: 180.745 ms
Loss rate: 7.50%
-- Flow 1:
Average throughput: 253.60 Mbit/s
95th percentile per-packet one-way delay: 180.745 ms
Loss rate: 7.50%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing network throughput and delay over time with specific labels for ingress and egress traffic.]
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 04:48:27
End at: 2020-04-17 04:48:58
Local clock offset: -0.114 ms
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2020-04-17 08:55:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.57 Mbit/s
95th percentile per-packet one-way delay: 76.393 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 602.57 Mbit/s
95th percentile per-packet one-way delay: 76.393 ms
Loss rate: 0.03%
Run 1: Report of Muses\_Decision\_TreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 05:23:31
End at: 2020-04-17 05:24:01
Local clock offset: -0.474 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2020-04-17 08:55:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.54 Mbit/s
95th percentile per-packet one-way delay: 79.272 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 573.54 Mbit/s
95th percentile per-packet one-way delay: 79.272 ms
Loss rate: 0.04%
Run 2: Report of Muses\_DecisionTreeR0 — Data Link

![Graph showing throughput and packet delay over time.](image-url)
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 05:58:16  
End at: 2020-04-17 05:58:46  
Local clock offset: 0.307 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2020-04-17 08:57:34  
# Datalink statistics
-- Total of 1 flow:  
Average throughput: 623.82 Mbit/s  
95th percentile per-packet one-way delay: 77.576 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 623.82 Mbit/s  
95th percentile per-packet one-way delay: 77.576 ms  
Loss rate: 0.01%
Run 3: Report of Muses_DecisionTreeR0 — Data Link

![Graph showing throughput over time with two lines indicating Flow 1 ingress and egress mean throughput in Mbps.]

![Graph showing per-packet one-way delay over time with a line indicating Flow 1 95th percentile delay in ms.]
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2020-04-17 06:32:53
End at: 2020-04-17 06:33:23
Local clock offset: 0.268 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 08:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 460.47 Mbit/s
95th percentile per-packet one-way delay: 76.248 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 460.47 Mbit/s
95th percentile per-packet one-way delay: 76.248 ms
Loss rate: 0.02%
Run 4: Report of Muses.DecisionTreeR0 — Data Link

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

- **Flow 1 ingress (mean 460.61 Mbit/s)**
- **Flow 1 egress (mean 460.47 Mbit/s)**

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

- **Flow 1 (95th percentile 76.25 ms)**
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 07:07:31
End at: 2020-04-17 07:08:01
Local clock offset: -0.133 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2020-04-17 08:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.95 Mbit/s
95th percentile per-packet one-way delay: 77.304 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 556.95 Mbit/s
95th percentile per-packet one-way delay: 77.304 ms
Loss rate: 0.10%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

![Graph showing throughput over time]

- **Flow 1 ingress (mean 557.57 Mbit/s)**
- **Flow 1 egress (mean 556.95 Mbit/s)**

![Graph showing packet delay over time]

- **Flow 1 (95th percentile 77.30 ms)**
Run 1: Statistics of PCC-Allegro

Start at: 2020-04-17 04:43:57
End at: 2020-04-17 04:44:27
Local clock offset: -0.098 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-04-17 08:59:41
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 341.56 Mbit/s
  95th percentile per-packet one-way delay: 215.008 ms
  Loss rate: 3.24%
-- Flow 1:
  Average throughput: 341.56 Mbit/s
  95th percentile per-packet one-way delay: 215.008 ms
  Loss rate: 3.24%
Run 1: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

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

Flow 1 ingress (mean 353.05 Mbit/s) — Flow 1 egress (mean 341.56 Mbit/s)

Flow 1 (95th percentile 215.01 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2020-04-17 05:18:58
End at: 2020-04-17 05:19:28
Local clock offset: 0.223 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2020-04-17 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 383.69 Mbit/s
95th percentile per-packet one-way delay: 223.702 ms
Loss rate: 8.69%
-- Flow 1:
Average throughput: 383.69 Mbit/s
95th percentile per-packet one-way delay: 223.702 ms
Loss rate: 8.69%
Run 2: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 420.25 Mbit/s)
Flow 1 egress (mean 383.69 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 223.70 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-04-17 05:53:49
End at: 2020-04-17 05:54:19
Local clock offset: 0.261 ms
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2020-04-17 09:02:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.16 Mbit/s
95th percentile per-packet one-way delay: 228.567 ms
Loss rate: 11.67%
-- Flow 1:
Average throughput: 337.16 Mbit/s
95th percentile per-packet one-way delay: 228.567 ms
Loss rate: 11.67%
Run 3: Report of PCC-Allegro — Data Link

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

Start at: 2020-04-17 06:28:25
End at: 2020-04-17 06:28:55
Local clock offset: -0.078 ms
Remote clock offset: 1.221 ms

# Below is generated by plot.py at 2020-04-17 09:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.69 Mbit/s
95th percentile per-packet one-way delay: 231.344 ms
Loss rate: 6.46%
-- Flow 1:
Average throughput: 322.69 Mbit/s
95th percentile per-packet one-way delay: 231.344 ms
Loss rate: 6.46%
Run 4: Report of PCC-Allegro — Data Link

![Graph of throughput](image1)

- Flow 1 ingress (mean 345.01 Mbit/s)
- Flow 1 egress (mean 322.69 Mbit/s)

![Graph of packet loss delay](image2)

- Flow 1 (95th percentile 231.34 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2020-04-17 07:03:06
End at: 2020-04-17 07:03:36
Local clock offset: -0.114 ms
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2020-04-17 09:08:07
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 310.71 Mbit/s
  95th percentile per-packet one-way delay: 171.073 ms
  Loss rate: 1.04%
-- Flow 1:
  Average throughput: 310.71 Mbit/s
  95th percentile per-packet one-way delay: 171.073 ms
  Loss rate: 1.04%
Run 5: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 314.00 Mbit/s)
- Flow 1 egress (mean 310.71 Mbit/s)

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

- Flow 1 (95th percentile 171.67 ms)
Run 1: Statistics of PCC-Expr

Start at: 2020-04-17 04:36:33
End at: 2020-04-17 04:37:03
Local clock offset: -0.477 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-04-17 09:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.06 Mbit/s
95th percentile per-packet one-way delay: 189.556 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 288.06 Mbit/s
95th percentile per-packet one-way delay: 189.556 ms
Loss rate: 2.90%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2020-04-17 05:11:21
End at: 2020-04-17 05:11:51
Local clock offset: -0.113 ms
Remote clock offset: 0.782 ms

# Below is generated by plot.py at 2020-04-17 09:08:07
# Datalink statistics

-- Total of 1 flow:
Average throughput: 246.83 Mbit/s
95th percentile per-packet one-way delay: 197.894 ms
Loss rate: 1.08%

-- Flow 1:
Average throughput: 246.83 Mbit/s
95th percentile per-packet one-way delay: 197.894 ms
Loss rate: 1.08%
Run 2: Report of PCC-Expr — Data Link

![Graph of Throughput (Mbps) over time with two lines representing Flow 1 ingress (249.52 Mbps) and Flow 1 egress (246.83 Mbps).]

![Graph of Per-packet delay (ms) over time with one line representing Flow 1 (95th percentile 197.89 ms).]
Run 3: Statistics of PCC-Expr

Start at: 2020-04-17 05:46:32
End at: 2020-04-17 05:47:02
Local clock offset: -0.477 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 09:08:07
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 202.42 Mbit/s
  95th percentile per-packet one-way delay: 120.398 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 202.42 Mbit/s
  95th percentile per-packet one-way delay: 120.398 ms
  Loss rate: 0.00%
Run 3: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 202.41 Mbit/s)
- Flow 1 egress (mean 202.42 Mbit/s)

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

- Flow 1 (95th percentile 120.40 ms)
Run 4: Statistics of PCC-Expr

Start at: 2020-04-17 06:20:56
End at: 2020-04-17 06:21:26
Local clock offset: -0.083 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2020-04-17 09:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.72 Mbit/s
95th percentile per-packet one-way delay: 108.085 ms
Loss rate: 0.28%

-- Flow 1:
Average throughput: 267.72 Mbit/s
95th percentile per-packet one-way delay: 108.085 ms
Loss rate: 0.28%
Run 4: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 268.50 Mbit/s)
- Flow 1 egress (mean 267.72 Mbit/s)

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

- Flow 1 (95th percentile 108.08 ms)
Run 5: Statistics of PCC-Expr

Start at: 2020-04-17 06:55:41
End at: 2020-04-17 06:56:11
Local clock offset: -0.092 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.16 Mbit/s
95th percentile per-packet one-way delay: 215.144 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 239.16 Mbit/s
95th percentile per-packet one-way delay: 215.144 ms
Loss rate: 3.22%
Run 5: Report of PCC-Expr — Data Link

![Graph showing data link throughput and delay over time.]
Run 1: Statistics of QUIC Cubic

Start at: 2020-04-17 04:33:53
End at: 2020-04-17 04:34:23
Local clock offset: -0.155 ms
Remote clock offset: 0.062 ms
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2020-04-17 05:08:37
End at: 2020-04-17 05:09:07
Local clock offset: -0.134 ms
Remote clock offset: -1.33 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 55.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 55.725 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 44.38 Mbps)
- Flow 1 egress (mean 44.38 Mbps)

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

- Flow 1 (95th percentile 55.73 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2020-04-17 05:43:50
End at: 2020-04-17 05:44:20
Local clock offset: 0.188 ms
Remote clock offset: -0.791 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 47.68 Mbit/s
  95th percentile per-packet one-way delay: 59.226 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 47.68 Mbit/s
  95th percentile per-packet one-way delay: 59.226 ms
  Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

Graph 1: Throughput Over Time (Mbps)

Graph 2: Per Packet One-Way Delay (ms)
Run 4: Statistics of QUIC Cubic

Start at: 2020-04-17 06:18:17
End at: 2020-04-17 06:18:47
Local clock offset: -0.042 ms
Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 57.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 57.605 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 5: Statistics of QUIC Cubic

Start at: 2020-04-17 06:52:59
End at: 2020-04-17 06:53:29
Local clock offset: -0.462 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.64 Mbit/s
95th percentile per-packet one-way delay: 57.373 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.64 Mbit/s
95th percentile per-packet one-way delay: 57.373 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2020-04-17 04:22:48
End at: 2020-04-17 04:23:18
Local clock offset: -0.074 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.941 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

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

![Graph showing per-packet one-way delay.](image-url)

- Flow 1 (95th percentile 56.94 ms)
Run 2: Statistics of SCReAM

Start at: 2020-04-17 04:57:26
End at: 2020-04-17 04:57:56
Local clock offset: -0.099 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.139 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.139 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 57.14 ms)
Run 3: Statistics of SCReAM

Start at: 2020-04-17 05:32:28
End at: 2020-04-17 05:32:58
Local clock offset: -0.171 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.079 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

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

Throughput (Mbps)

Time (s)

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

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

Packet Delay (ms)

Time (s)

Flow 1 (95th percentile 57.08 ms)
Run 4: Statistics of SCReAM

Start at: 2020-04-17 06:07:11
End at: 2020-04-17 06:07:42
Local clock offset: ~0.029 ms
Remote clock offset: ~1.427 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.703 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 55.70 ms)
Run 5: Statistics of SCReAM

Start at: 2020-04-17 06:41:37
End at: 2020-04-17 06:42:07
Local clock offset: -0.097 ms
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 56.768 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 56.768 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2020-04-17 04:27:53
End at: 2020-04-17 04:28:23
Local clock offset: -0.112 ms
Remote clock offset: -0.738 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 56.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 56.855 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2020-04-17 05:02:45
End at: 2020-04-17 05:03:15
Local clock offset: -0.419 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 58.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 58.054 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

![Graph showing throughput over time]

- **Flow 1 ingress (mean 7.98 Mbit/s)**
- **Flow 1 egress (mean 7.98 Mbit/s)**

![Graph showing packet delay over time]

- **Flow 1 (95th percentile 58.05 ms)**
Run 3: Statistics of Sprout

Start at: 2020-04-17 05:37:45
End at: 2020-04-17 05:38:15
Local clock offset: 0.217 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2020-04-17 09:09:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.344 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2020-04-17 06:12:18
End at: 2020-04-17 06:12:48
Local clock offset: -0.379 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2020-04-17 09:09:58
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 7.88 Mbit/s
  95th percentile per-packet one-way delay: 58.132 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.88 Mbit/s
  95th percentile per-packet one-way delay: 58.132 ms
  Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2020-04-17 06:46:57
End at: 2020-04-17 06:47:27
Local clock offset: -0.13 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 09:09:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.82 Mbit/s
95th percentile per-packet one-way delay: 57.724 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 7.82 Mbps)**
- **Flow 1 egress (mean 7.82 Mbps)**

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

- **Flow 1 (95th percentile 57.72 ms)**
Run 1: Statistics of TaoVA-100x

Start at: 2020-04-17 04:25:14
End at: 2020-04-17 04:25:44
Local clock offset: -0.097 ms
Remote clock offset: 1.146 ms

# Below is generated by plot.py at 2020-04-17 09:15:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.54 Mbit/s
95th percentile per-packet one-way delay: 67.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.54 Mbit/s
95th percentile per-packet one-way delay: 67.775 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2020-04-17 05:00:04
End at: 2020-04-17 05:00:34
Local clock offset: -0.141 ms
Remote clock offset: -0.61 ms

# Below is generated by plot.py at 2020-04-17 09:15:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.64 Mbit/s
95th percentile per-packet one-way delay: 62.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.64 Mbit/s
95th percentile per-packet one-way delay: 62.053 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2020-04-17 05:35:05
End at: 2020-04-17 05:35:35
Local clock offset: -0.141 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2020-04-17 09:15:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.38 Mbit/s
95th percentile per-packet one-way delay: 62.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.38 Mbit/s
95th percentile per-packet one-way delay: 62.843 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2020-04-17 06:09:38
End at: 2020-04-17 06:10:08
Local clock offset: 0.303 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2020-04-17 09:15:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.37 Mbit/s
95th percentile per-packet one-way delay: 63.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.37 Mbit/s
95th percentile per-packet one-way delay: 63.498 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress** (mean 232.36 Mbps)
- **Flow 1 egress** (mean 232.37 Mbps)

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

- **Flow 1** (95th percentile 63.50 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2020-04-17 06:44:18
End at: 2020-04-17 06:44:48
Local clock offset: 0.232 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2020-04-17 09:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.81 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.81 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 220.81 Mbit/s)**
- **Flow 1 egress (mean 220.81 Mbit/s)**

![Graph 2: One-way delay over time](image2)

- **Flow 1 (95th percentile 63.67 ms)**
Run 1: Statistics of TCP Vegas

Start at: 2020-04-17 04:23:56
End at: 2020-04-17 04:24:26
Local clock offset: 0.236 ms
Remote clock offset: 0.169 ms

# Below is generated by plot.py at 2020-04-17 09:16:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.63 Mbit/s
95th percentile per-packet one-way delay: 57.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.63 Mbit/s
95th percentile per-packet one-way delay: 57.231 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

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

Start at: 2020-04-17 04:58:34  
End at: 2020-04-17 04:59:04  
Local clock offset: 0.228 ms  
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2020-04-17 09:18:17
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 444.22 Mbit/s
  95th percentile per-packet one-way delay: 95.060 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 444.22 Mbit/s
  95th percentile per-packet one-way delay: 95.060 ms
  Loss rate: 0.38%
Run 2: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time.

Throughput Graph:
- Two lines representing flows 1 ingress and egress.
- Flow 1 ingress (mean 445.89 Mbit/s).
- Flow 1 egress (mean 444.22 Mbit/s).

Packet Delay Graph:
- Single line representing flow 1 with 95th percentile 95.06 ms.]
Run 3: Statistics of TCP Vegas

Start at: 2020-04-17 05:33:36
End at: 2020-04-17 05:34:06
Local clock offset: 0.203 ms
Remote clock offset: -0.871 ms

# Below is generated by plot.py at 2020-04-17 09:18:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.92 Mbit/s
95th percentile per-packet one-way delay: 90.551 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 413.92 Mbit/s
95th percentile per-packet one-way delay: 90.551 ms
Loss rate: 0.14%
Run 3: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]
Run 4: Statistics of TCP Vegas

Start at: 2020-04-17 06:08:20
End at: 2020-04-17 06:08:50
Local clock offset: -0.066 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-04-17 09:18:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.08 Mbit/s
95th percentile per-packet one-way delay: 60.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.08 Mbit/s
95th percentile per-packet one-way delay: 60.764 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 201.08 Mbit/s)**
- **Flow 1 egress (mean 201.08 Mbit/s)**

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

- **Flow 1 (95th percentile 60.76 ms)**
Run 5: Statistics of TCP Vegas

Start at: 2020-04-17 06:42:45
End at: 2020-04-17 06:43:15
Local clock offset: -0.087 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 482.11 Mbit/s
  95th percentile per-packet one-way delay: 127.867 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 482.11 Mbit/s
  95th percentile per-packet one-way delay: 127.867 ms
  Loss rate: 0.11%
Run 5: Report of TCP Vegas — Data Link

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

![Graph showing per-packet one-way delay with a line indicating flow 1.]
Run 1: Statistics of Verus

Start at: 2020-04-17 04:47:05
End at: 2020-04-17 04:47:35
Local clock offset: -0.108 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.48 Mbit/s
95th percentile per-packet one-way delay: 110.724 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 151.48 Mbit/s
95th percentile per-packet one-way delay: 110.724 ms
Loss rate: 0.08%
Run 1: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 151.59 Mbps)  
Flow 1 egress (mean 151.48 Mbps)

Per packet one way delay (ms)

Flow 1 (95th percentile 110.72 ms)
Run 2: Statistics of Verus

Start at: 2020-04-17 05:22:08
End at: 2020-04-17 05:22:38
Local clock offset: 0.213 ms
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.58 Mbit/s
95th percentile per-packet one-way delay: 178.722 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 166.58 Mbit/s
95th percentile per-packet one-way delay: 178.722 ms
Loss rate: 0.01%
Run 2: Report of Verus — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress.]
Run 3: Statistics of Verus

Start at: 2020-04-17 05:56:54
End at: 2020-04-17 05:57:24
Local clock offset: -0.049 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.09 Mbit/s
95th percentile per-packet one-way delay: 209.419 ms
Loss rate: 3.87%
-- Flow 1:
Average throughput: 151.09 Mbit/s
95th percentile per-packet one-way delay: 209.419 ms
Loss rate: 3.87%
Run 3: Report of Verus — Data Link

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Run 4: Statistics of Verus

Start at: 2020-04-17 06:31:30
End at: 2020-04-17 06:32:00
Local clock offset: -0.064 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.19 Mbit/s
95th percentile per-packet one-way delay: 86.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.19 Mbit/s
95th percentile per-packet one-way delay: 86.347 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

![Graph of throughput and packet delay over time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 153.19 Mbit/s)
  - Flow 1 egress (mean 153.19 Mbit/s)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 86.35 ms)
Run 5: Statistics of Verus

Start at: 2020-04-17 07:06:09
End at: 2020-04-17 07:06:39
Local clock offset: -0.14 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.00 Mbit/s
95th percentile per-packet one-way delay: 223.745 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 139.00 Mbit/s
95th percentile per-packet one-way delay: 223.745 ms
Loss rate: 3.60%
Run 5: Report of Verus — Data Link

![Graph of throughput over time with two lines labeled Flow 1 ingress (mean 144.18 Mbit/s) and Flow 1 egress (mean 139.00 Mbit/s).]

![Graph of per packet one way delay over time with one line labeled Flow 1 (95th percentile 223.75 ms).]
Run 1: Statistics of PCC-Vivace

Start at: 2020-04-17 04:39:42
End at: 2020-04-17 04:40:12
Local clock offset: -0.1 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2020-04-17 09:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.19 Mbit/s
95th percentile per-packet one-way delay: 168.038 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 221.19 Mbit/s
95th percentile per-packet one-way delay: 168.038 ms
Loss rate: 0.04%
Run 1: Report of PCC-Vivace — Data Link

[Graphs showing throughput and packet delay over time for Run 1.]
Run 2: Statistics of PCC-Vivace

Start at: 2020-04-17 05:14:28
End at: 2020-04-17 05:14:58
Local clock offset: 0.207 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2020-04-17 09:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.00 Mbit/s
95th percentile per-packet one-way delay: 89.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 332.00 Mbit/s
95th percentile per-packet one-way delay: 89.951 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing throughput and per-packet one way delay over time for Flow 1 ingress and egress with mean rates of 331.99 Mbps and 332.00 Mbps respectively.]

![Graph showing per-packet one way delay over time with 95th percentile of 89.95 ms for Flow 1.]
Run 3: Statistics of PCC-Vivace

Start at: 2020-04-17 05:49:29
End at: 2020-04-17 05:49:59
Local clock offset: 0.265 ms
Remote clock offset: -0.878 ms

# Below is generated by plot.py at 2020-04-17 09:24:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.45 Mbit/s
95th percentile per-packet one-way delay: 134.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.45 Mbit/s
95th percentile per-packet one-way delay: 134.897 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

[Graphs showing throughput and packet delay over time]
Run 4: Statistics of PCC-Vivace

Start at: 2020-04-17 06:24:05
End at: 2020-04-17 06:24:35
Local clock offset: -0.114 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 09:24:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.44 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 315.44 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph](image)

Flow 1 ingress (mean 315.43 Mbit/s)  Flow 1 egress (mean 315.44 Mbit/s)

![Graph](image)

Flow 1 (95th percentile 109.62 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2020-04-17 06:58:47
End at: 2020-04-17 06:59:17
Local clock offset: 0.197 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2020-04-17 09:24:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.41 Mbit/s
95th percentile per-packet one-way delay: 281.352 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 253.41 Mbit/s
95th percentile per-packet one-way delay: 281.352 ms
Loss rate: 3.92%
Run 5: Report of PCC-Vivace — Data Link

[Graph 1: Throughput vs Time]

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

Flow 1 ingress (mean 263.75 Mbit/s)  Flow 1 egress (mean 253.41 Mbit/s)

Flow 1 (95th percentile 281.35 ms)
Run 1: Statistics of WebRTC media

Start at: 2020-04-17 04:16:59
End at: 2020-04-17 04:17:29
Local clock offset: -0.424 ms
Remote clock offset: 1.019 ms
Run 1: Report of WebRTC media — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 22.11 Mbit/s)
- Flow 1 egress (mean 12.41 Mbit/s)

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

- Flow 1 (95th percentile 59.23 ms)
Run 2: Statistics of WebRTC media

Start at: 2020-04-17 04:51:33
End at: 2020-04-17 04:52:03
Local clock offset: 0.246 ms
Remote clock offset: -0.46 ms
Run 2: Report of WebRTC media — Data Link

[Graphs showing throughput and packet one-way delay time]
Run 3: Statistics of WebRTC media

Start at: 2020-04-17 05:26:36
End at: 2020-04-17 05:27:06
Local clock offset: -0.11 ms
Remote clock offset: -0.194 ms
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2020-04-17 06:01:22
End at: 2020-04-17 06:01:52
Local clock offset: -0.047 ms
Remote clock offset: -0.696 ms
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 0.40 Mbit/s)
- Flow 1 egress (mean 0.40 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 60.01 ms)
Run 5: Statistics of WebRTC media

Start at: 2020-04-17 06:35:52
End at: 2020-04-17 06:36:22
Local clock offset: -0.064 ms
Remote clock offset: -0.73 ms
Run 5: Report of WebRTC media — Data Link

![Graph of WebRTC media data link](image)

- Flow 1 ingress (mean 0.82 Mbit/s)
- Flow 1 egress (mean 0.82 Mbit/s)

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

- Flow 1 (95th percentile: 56.63 ms)