Pantheon Report

Generated at 2018-10-10 14:52:23 (UTC).
Data path: GCE Sydney on ens4 (local) → GCE Tokyo on ens4 (remote).
Repeated the test of 18 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 4.15.0-1021-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 @ 2e19c0464530faa92c63f8217c9971438a26a3be
third_party/fillp @ 5332fc9127c63565e13f4933b336c02d1aadac6
third_party/genericCC @ d0153f8e594aa89e89e32d143cedbdfe58e562f4
third_party/indigo @ 2601c92e4d9d838dc4dfe0ecdbf90c077e64d
third_party/indigo-96d2da3 @ 8413272d46f88a0bcbb9ed70486b6a8f994ab95
third_party/libutp @ b3465b942e2826f2b179eaaab4a906c5bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa643c40a
third_party/pantheon-tunnel @ f866df58d27af942717625e3a354cc2e802bd
third_party/pcc @ 1af958fa0d6d18b23c091a55f8c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f561388adc08fba24e2f974ab
third_party/proto-quic @ 77961f1a8273a68b42f18c8143ebc978f3cfc4f2
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b2b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a6ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2bf86211435ae071a32f96b7d8c504587f5d7f4
test from GCE Sydney to GCE Tokyo, 5 runs of 30s each per scheme
(mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP BBR</td>
<td>5</td>
<td>624.91</td>
<td>67.20</td>
<td>0.01</td>
</tr>
<tr>
<td>Copa</td>
<td>5</td>
<td>355.67</td>
<td>59.94</td>
<td>0.00</td>
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<td>TCP Cubic</td>
<td>5</td>
<td>634.54</td>
<td>69.52</td>
<td>0.01</td>
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<tr>
<td>FilIP</td>
<td>5</td>
<td>816.23</td>
<td>114.74</td>
<td>1.11</td>
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<td>Indigo</td>
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<td>226.11</td>
<td>52.67</td>
<td>0.00</td>
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<td>Indigo-96d2da3</td>
<td>5</td>
<td>298.26</td>
<td>74.23</td>
<td>0.01</td>
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<td>LEDBAT</td>
<td>5</td>
<td>33.08</td>
<td>53.09</td>
<td>0.00</td>
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<td>Indigo-Muses</td>
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<td>691.27</td>
<td>76.92</td>
<td>0.02</td>
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<td>PCC-Allegro</td>
<td>5</td>
<td>476.58</td>
<td>148.52</td>
<td>1.29</td>
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<tr>
<td>PCC-Expr</td>
<td>5</td>
<td>370.46</td>
<td>118.50</td>
<td>0.97</td>
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<tr>
<td>QUIC Cubic</td>
<td>4</td>
<td>68.96</td>
<td>51.63</td>
<td>0.00</td>
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<td>SCRReAM</td>
<td>5</td>
<td>0.21</td>
<td>52.74</td>
<td>0.00</td>
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<td>Sprout</td>
<td>5</td>
<td>8.17</td>
<td>51.47</td>
<td>0.00</td>
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<td>TaoVA-100x</td>
<td>5</td>
<td>243.78</td>
<td>50.79</td>
<td>0.00</td>
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<td>TCP Vegas</td>
<td>5</td>
<td>547.40</td>
<td>57.16</td>
<td>0.00</td>
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<tr>
<td>Verus</td>
<td>5</td>
<td>171.37</td>
<td>116.12</td>
<td>0.52</td>
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<tr>
<td>PCC-Vivace</td>
<td>5</td>
<td>403.25</td>
<td>69.15</td>
<td>0.08</td>
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<tr>
<td>WebRTC media</td>
<td>5</td>
<td>1.95</td>
<td>52.25</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-10-10 11:14:36
End at: 2018-10-10 11:15:06
Local clock offset: 0.128 ms
Remote clock offset: 1.1 ms

# Below is generated by plot.py at 2018-10-10 13:42:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 618.33 Mbit/s
95th percentile per-packet one-way delay: 73.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 618.33 Mbit/s
95th percentile per-packet one-way delay: 73.940 ms
Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-10-10 11:40:15
End at: 2018-10-10 11:40:45
Local clock offset: 0.233 ms
Remote clock offset: 0.37 ms

# Below is generated by plot.py at 2018-10-10 13:42:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.32 Mbit/s
95th percentile per-packet one-way delay: 66.137 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 623.32 Mbit/s
95th percentile per-packet one-way delay: 66.137 ms
Loss rate: 0.04%
Run 2: Report of TCP BBR — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 623.54 Mbit/s)
- Flow 1 egress (mean 623.32 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 66.14 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-10-10 12:05:54
End at: 2018-10-10 12:06:24
Local clock offset: -0.025 ms
Remote clock offset: 0.9 ms

# Below is generated by plot.py at 2018-10-10 13:42:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.89 Mbit/s
95th percentile per-packet one-way delay: 69.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 635.89 Mbit/s
95th percentile per-packet one-way delay: 69.076 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 635.90 Mbit/s)
- Flow 1 egress (mean 635.89 Mbit/s)

![Graph of packet delay](image)

- Flow 1 (95th percentile 69.08 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-10-10 12:31:44
End at: 2018-10-10 12:32:14
Local clock offset: 0.033 ms
Remote clock offset: -0.51 ms

# Below is generated by plot.py at 2018-10-10 13:42:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 626.83 Mbit/s
95th percentile per-packet one-way delay: 61.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 626.83 Mbit/s
95th percentile per-packet one-way delay: 61.189 ms
Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link

![Graph 1](image1.png)

- Flow 1 ingress (mean 626.85 Mbit/s)
- Flow 1 egress (mean 626.83 Mbit/s)

![Graph 2](image2.png)

- Flow 1 (95th percentile 61.19 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-10-10 12:57:30
End at: 2018-10-10 12:58:00
Local clock offset: -0.172 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-10-10 13:42:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 620.16 Mbit/s
95th percentile per-packet one-way delay: 65.645 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 620.16 Mbit/s
95th percentile per-packet one-way delay: 65.645 ms
Loss rate: 0.02%
Run 5: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 620.29 Mbit/s)
- Flow 1 egress (mean 620.16 Mbit/s)

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

Flow 1 (95th percentile 65.64 ms)
Run 1: Statistics of Copa

Start at: 2018-10-10 11:38:38
End at: 2018-10-10 11:39:08
Local clock offset: -0.141 ms
Remote clock offset: -0.909 ms

# Below is generated by plot.py at 2018-10-10 13:43:21
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 351.56 Mbit/s
  95th percentile per-packet one-way delay: 55.514 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 351.56 Mbit/s
  95th percentile per-packet one-way delay: 55.514 ms
  Loss rate: 0.00%
Run 1: Report of Copa — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with 95th percentile delay.](image-url)
Run 2: Statistics of Copa

Start at: 2018-10-10 12:04:17
End at: 2018-10-10 12:04:47
Local clock offset: 0.191 ms
Remote clock offset: 1.17 ms

# Below is generated by plot.py at 2018-10-10 13:43:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.07 Mbit/s
95th percentile per-packet one-way delay: 56.613 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 342.07 Mbit/s
95th percentile per-packet one-way delay: 56.613 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-10-10 12:30:06
End at: 2018-10-10 12:30:36
Local clock offset: 0.058 ms
Remote clock offset: -0.669 ms

# Below is generated by plot.py at 2018-10-10 13:43:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.62 Mbit/s
95th percentile per-packet one-way delay: 62.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 349.62 Mbit/s
95th percentile per-packet one-way delay: 62.971 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-10-10 12:55:51
End at: 2018-10-10 12:56:21
Local clock offset: 0.264 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.28 Mbit/s
95th percentile per-packet one-way delay: 64.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 367.28 Mbit/s
95th percentile per-packet one-way delay: 64.097 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

![Graphs showing throughput and packet delay over time]

Legend:
- Flow 1 ingress (mean 366.38 Mbit/s)
- Flow 1 egress (mean 367.28 Mbit/s)

Flow 1 (95th percentile 64.10 ms)
Run 5: Statistics of Copa

Start at: 2018-10-10 13:21:36
End at: 2018-10-10 13:22:06
Local clock offset: 0.026 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.82 Mbit/s
95th percentile per-packet one-way delay: 60.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 367.82 Mbit/s
95th percentile per-packet one-way delay: 60.507 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-10-10 11:37:01
End at: 2018-10-10 11:37:31
Local clock offset: -0.111 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 630.68 Mbit/s
95th percentile per-packet one-way delay: 66.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 630.68 Mbit/s
95th percentile per-packet one-way delay: 66.384 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

![Graph showing network throughput and per-packet one-way delay for Flow 1.]

- **Throughput (Mbps):** The throughput is depicted over time, with smooth and fluctuating patterns indicating usage efficiency and network capacity.
- **Per-packet one-way delay (ms):** The delay is shown with spikes and dips, illustrating variations in packet transmission times.

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Run 2: Statistics of TCP Cubic

Start at: 2018-10-10 12:02:40
End at: 2018-10-10 12:03:10
Local clock offset: 0.078 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.66 Mbit/s
95th percentile per-packet one-way delay: 69.319 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 632.66 Mbit/s
95th percentile per-packet one-way delay: 69.319 ms
Loss rate: 0.01%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2018-10-10 12:28:27
End at: 2018-10-10 12:28:57
Local clock offset: -0.156 ms
Remote clock offset: 1.324 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 651.07 Mbit/s
95th percentile per-packet one-way delay: 65.141 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 651.07 Mbit/s
95th percentile per-packet one-way delay: 65.141 ms
Loss rate: 0.01%
Run 3: Report of TCP Cubic — Data Link

![Graph of Throughput and Delay](image)

- **Throughput**:
  - Flow 1 ingress (mean 651.12 Mbit/s)
  - Flow 1 egress (mean 651.07 Mbit/s)

- **Delay**:
  - Flow 1 (95th percentile 65.14 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-10-10 12:54:14
End at: 2018-10-10 12:54:44
Local clock offset: 0.186 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 626.36 Mbit/s
95th percentile per-packet one-way delay: 68.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 626.36 Mbit/s
95th percentile per-packet one-way delay: 68.651 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-10-10 13:19:59
End at: 2018-10-10 13:20:29
Local clock offset: 0.105 ms
Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2018-10-10 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.93 Mbit/s
95th percentile per-packet one-way delay: 78.114 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 631.93 Mbit/s
95th percentile per-packet one-way delay: 78.114 ms
Loss rate: 0.03%
Run 5: Report of TCP Cubic — Data Link

[Graphs showing throughput and per-packet one-way delay over time for Flow 1.]
Run 1: Statistics of FillP

Start at: 2018-10-10 11:30:52
End at: 2018-10-10 11:31:22
Local clock offset: -0.004 ms
Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2018-10-10 13:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 838.23 Mbit/s
95th percentile per-packet one-way delay: 91.846 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 838.23 Mbit/s
95th percentile per-packet one-way delay: 91.846 ms
Loss rate: 0.05%
Run 1: Report of FillP — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 838.75 Mbit/s)
- Flow 1 egress (mean 838.23 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 91.85 ms)
Run 2: Statistics of FillP

Start at: 2018-10-10 11:56:34  
End at: 2018-10-10 11:57:04  
Local clock offset: -0.12 ms  
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-10-10 14:08:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 797.68 Mbit/s
95th percentile per-packet one-way delay: 105.315 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 797.68 Mbit/s
95th percentile per-packet one-way delay: 105.315 ms
Loss rate: 0.75%
Run 2: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 803.71 Mbits/s)**
- **Flow 1 egress (mean 797.68 Mbits/s)**

The graphs illustrate the throughput and packet delay over time for Flow 1.
Run 3: Statistics of FillP

End at: 2018-10-10 12:22:53
Local clock offset: 0.061 ms
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-10-10 14:09:48
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 830.61 Mbit/s
  95th percentile per-packet one-way delay: 130.438 ms
  Loss rate: 3.07%
-- Flow 1:
  Average throughput: 830.61 Mbit/s
  95th percentile per-packet one-way delay: 130.438 ms
  Loss rate: 3.07%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2018-10-10 12:48:13
End at: 2018-10-10 12:48:43
Local clock offset: 0.034 ms
Remote clock offset: 1.352 ms

# Below is generated by plot.py at 2018-10-10 14:09:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 791.50 Mbit/s
95th percentile per-packet one-way delay: 131.373 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 791.50 Mbit/s
95th percentile per-packet one-way delay: 131.373 ms
Loss rate: 0.78%
Run 4: Report of FillP — Data Link

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

- **Flow 1 ingress** (mean 797.74 Mbps)
- **Flow 1 egress** (mean 791.50 Mbps)

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

- **Flow 1 (95th percentile 131.37 ms)**
Run 5: Statistics of FillP

Start at: 2018-10-10 13:14:00
End at: 2018-10-10 13:14:30
Local clock offset: -0.073 ms
Remote clock offset: 1.344 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 823.14 Mbit/s
  95th percentile per-packet one-way delay: 114.704 ms
  Loss rate: 0.88%
-- Flow 1:
  Average throughput: 823.14 Mbit/s
  95th percentile per-packet one-way delay: 114.704 ms
  Loss rate: 0.88%
Run 5: Report of FillP — Data Link

**Throughput (Mbps):**

- Flow 1 ingress (mean 830.58 Mbps)
- Flow 1 egress (mean 823.14 Mbps)

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

- Flow 1 (95th percentile 114.70 ms)
Run 1: Statistics of Indigo

Start at: 2018-10-10 11:17:50
End at: 2018-10-10 11:18:20
Local clock offset: -0.251 ms
Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 172.23 Mbit/s
  95th percentile per-packet one-way delay: 54.086 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 172.23 Mbit/s
  95th percentile per-packet one-way delay: 54.086 ms
  Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

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

![Graph showing packet delay over time with 95th percentile indicated](image)
Run 2: Statistics of Indigo

Start at: 2018-10-10 11:43:25
End at: 2018-10-10 11:43:55
Local clock offset: -0.018 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 50.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 50.786 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

![Throughput Graph](image)

![Delay Graph](image)

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Run 3: Statistics of Indigo

Start at: 2018-10-10 12:09:09
End at: 2018-10-10 12:09:39
Local clock offset: 0.024 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.41 Mbit/s
95th percentile per-packet one-way delay: 54.027 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.41 Mbit/s
95th percentile per-packet one-way delay: 54.027 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-10-10 12:34:58
End at: 2018-10-10 12:35:28
Local clock offset: -0.098 ms
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.64 Mbit/s
95th percentile per-packet one-way delay: 51.232 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.64 Mbit/s
95th percentile per-packet one-way delay: 51.232 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2018-10-10 13:00:45
End at: 2018-10-10 13:01:15
Local clock offset: 0.195 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.40 Mbit/s
95th percentile per-packet one-way delay: 53.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.40 Mbit/s
95th percentile per-packet one-way delay: 53.202 ms
Loss rate: 0.00%
Run 1: Statistics of Indigo-96d2da3

Start at: 2018-10-10 11:25:43
End at: 2018-10-10 11:26:13
Local clock offset: -0.132 ms
Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.20 Mbit/s
95th percentile per-packet one-way delay: 83.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.20 Mbit/s
95th percentile per-packet one-way delay: 83.485 ms
Loss rate: 0.00%
Run 1: Report of Indigo-96d2da3 — Data Link

![Graph showing throughput over time with two lines, one for ingress and one for egress, indicating fluctuations.](image)

![Graph showing per packet delay over time with a line indicating 95th percentile delay.](image)
Run 2: Statistics of Indigo-96d2da3

Start at: 2018-10-10 11:51:22
End at: 2018-10-10 11:51:52
Local clock offset: -0.261 ms
Remote clock offset: -0.629 ms

# Below is generated by plot.py at 2018-10-10 14:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.46 Mbit/s
95th percentile per-packet one-way delay: 66.474 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 293.46 Mbit/s
95th percentile per-packet one-way delay: 66.474 ms
Loss rate: 0.00%
Run 2: Report of Indigo-96d2da3 — Data Link
Run 3: Statistics of Indigo-96d2da3

Start at: 2018-10-10 12:17:09
End at: 2018-10-10 12:17:39
Local clock offset: ~0.015 ms
Remote clock offset: ~0.695 ms

# Below is generated by plot.py at 2018-10-10 14:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.63 Mbit/s
95th percentile per-packet one-way delay: 68.929 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 292.63 Mbit/s
95th percentile per-packet one-way delay: 68.929 ms
Loss rate: 0.03%
Run 3: Report of Indigo-96d2da3 — Data Link

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

- Flow 1 ingress (mean 292.74 Mbps)
- Flow 1 egress (mean 292.63 Mbps)

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

- Flow 1 (95th percentile 68.93 ms)
Run 4: Statistics of Indigo-96d2da3

Start at: 2018-10-10 12:43:00
End at: 2018-10-10 12:43:30
Local clock offset: 0.044 ms
Remote clock offset: -0.628 ms

# Below is generated by plot.py at 2018-10-10 14:11:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.25 Mbit/s
95th percentile per-packet one-way delay: 77.390 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 305.25 Mbit/s
95th percentile per-packet one-way delay: 77.390 ms
Loss rate: 0.00%
Run 4: Report of Indigo-96d2da3 — Data Link

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

![Graph 2: Per packet one way delay (ms)](image2)
Run 5: Statistics of Indigo-96d2da3

Start at: 2018-10-10 13:08:44
End at: 2018-10-10 13:09:14
Local clock offset: -0.138 ms
Remote clock offset: 0.847 ms

# Below is generated by plot.py at 2018-10-10 14:11:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.74 Mbit/s
95th percentile per-packet one-way delay: 74.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 299.74 Mbit/s
95th percentile per-packet one-way delay: 74.850 ms
Loss rate: 0.00%
Run 5: Report of Indigo-96d2da3 — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 299.83 Mbps)
- Flow 1 egress (mean 299.74 Mbps)

**Packet one way delay (ms):**
- Flow 1 (95th percentile 74.85 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-10-10 11:20:40
End at: 2018-10-10 11:21:10
Local clock offset: 0.018 ms
Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2018-10-10 14:11:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 54.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 54.780 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 32.35 Mbit/s)
- Flow 1 egress (mean 32.35 Mbit/s)

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

- Flow 1 (99th percentile 54.78 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-10-10 11:46:19
End at: 2018-10-10 11:46:49
Local clock offset: 0.032 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2018-10-10 14:11:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 51.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 51.537 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with a mean of 33.96 Mbps.]

![Graph showing per-packet round trip delay over time with 95th percentile of 51.54 ms.]
Run 3: Statistics of LEDBAT

Start at: 2018-10-10 12:12:05
End at: 2018-10-10 12:12:35
Local clock offset: -0.2 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-10-10 14:11:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 51.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.13 Mbit/s
95th percentile per-packet one-way delay: 51.598 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 32.13 Mbit/s)
- Flow 1 egress (mean 32.13 Mbit/s)

![Graph showing per-packet delay over time for Flow 1.]

- Flow 1 (95th percentile 51.60 ms)
Run 4: Statistics of LEDBAT

Start at: 2018-10-10 12:37:55
End at: 2018-10-10 12:38:25
Local clock offset: -0.249 ms
Remote clock offset: 1.468 ms

# Below is generated by plot.py at 2018-10-10 14:11:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 34.66 Mbit/s)**
- **Flow 1 egress (mean 34.65 Mbit/s)**

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

- **Flow 1 (95th percentile 53.25 ms)**
Run 5: Statistics of LEDBAT

Start at: 2018-10-10 13:03:41
End at: 2018-10-10 13:04:11
Local clock offset: -0.12 ms
Remote clock offset: -0.591 ms

# Below is generated by plot.py at 2018-10-10 14:11:26
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 32.32 Mbit/s
  95th percentile per-packet one-way delay: 54.285 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 32.32 Mbit/s
  95th percentile per-packet one-way delay: 54.285 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 1: Statistics of Indigo-Muses

Start at: 2018-10-10 11:21:49  
End at: 2018-10-10 11:22:19  
Local clock offset: -0.156 ms  
Remote clock offset: -0.493 ms

# Below is generated by plot.py at 2018-10-10 14:20:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 705.04 Mbit/s  
95th percentile per-packet one-way delay: 76.853 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 705.04 Mbit/s  
95th percentile per-packet one-way delay: 76.853 ms  
Loss rate: 0.03%
Run 1: Report of Indigo-Muses — Data Link

![Graph showing throughput and delay over time for Run 1]
Run 2: Statistics of Indigo-Muses

Start at: 2018-10-10 11:47:29
End at: 2018-10-10 11:47:59
Local clock offset: -0.056 ms
Remote clock offset: -0.76 ms

# Below is generated by plot.py at 2018-10-10 14:20:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.68 Mbit/s
95th percentile per-packet one-way delay: 71.673 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 692.68 Mbit/s
95th percentile per-packet one-way delay: 71.673 ms
Loss rate: 0.00%
Run 2: Report of Indigo-Muses — Data Link

![Graph of throughput and packet delay over time]

- Flow 1 ingress (mean 692.75 Mbit/s)
- Flow 1 egress (mean 692.68 Mbit/s)

- Flow 1 (95th percentile 71.67 ms)
Run 3: Statistics of Indigo-Muses

Start at: 2018-10-10 12:13:15
End at: 2018-10-10 12:13:45
Local clock offset: 0.105 ms
Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2018-10-10 14:20:38
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 699.19 Mbit/s
  95th percentile per-packet one-way delay: 76.837 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 699.19 Mbit/s
  95th percentile per-packet one-way delay: 76.837 ms
  Loss rate: 0.06%
Run 3: Report of Indigo-Muses — Data Link

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

- Flow 1 ingress (mean 699.61 Mbps)
- Flow 1 egress (mean 699.19 Mbps)

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

- Flow 1 (95th percentile 76.84 ms)
Run 4: Statistics of Indigo-Muses

Start at: 2018-10-10 12:39:05
End at: 2018-10-10 12:39:35
Local clock offset: -0.115 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-10-10 14:20:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 700.07 Mbit/s
95th percentile per-packet one-way delay: 79.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 700.07 Mbit/s
95th percentile per-packet one-way delay: 79.839 ms
Loss rate: 0.00%
Run 4: Report of Indigo-Muses — Data Link
Run 5: Statistics of Indigo-Muses

Start at: 2018-10-10 13:04:51
End at: 2018-10-10 13:05:21
Local clock offset: 0.171 ms
Remote clock offset: 0.382 ms

# Below is generated by plot.py at 2018-10-10 14:20:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 659.39 Mbit/s
95th percentile per-packet one-way delay: 79.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 659.39 Mbit/s
95th percentile per-packet one-way delay: 79.406 ms
Loss rate: 0.00%
Run 5: Report of Indigo-Muses — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2018-10-10 11:29:17
End at: 2018-10-10 11:29:47
Local clock offset: 0.154 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-10-10 14:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 462.98 Mbit/s
95th percentile per-packet one-way delay: 129.673 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 462.98 Mbit/s
95th percentile per-packet one-way delay: 129.673 ms
Loss rate: 0.08%
Run 1: Report of PCC-Allegro — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 463.32 Mbit/s)
  - Flow 1 egress (mean 462.98 Mbit/s)

- **Per-packet end-to-end delay (ms):**
  - Flow 1 (95th percentile 129.67 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2018-10-10 11:54:59
End at: 2018-10-10 11:55:29
Local clock offset: -0.036 ms
Remote clock offset: 0.723 ms

# Below is generated by plot.py at 2018-10-10 14:24:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 463.39 Mbit/s
95th percentile per-packet one-way delay: 161.162 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 463.39 Mbit/s
95th percentile per-packet one-way delay: 161.162 ms
Loss rate: 2.32%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-10-10 12:20:46
End at: 2018-10-10 12:21:16
Local clock offset: 0.1 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2018-10-10 14:25:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 482.92 Mbit/s
95th percentile per-packet one-way delay: 150.586 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 482.92 Mbit/s
95th percentile per-packet one-way delay: 150.586 ms
Loss rate: 1.90%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 492.33 Mbit/s)
- Flow 1 egress (mean 482.92 Mbit/s)

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

- Flow 1 (95th percentile 150.59 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-10-10 12:46:37
End at: 2018-10-10 12:47:08
Local clock offset: -0.037 ms
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2018-10-10 14:35:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 472.13 Mbit/s
95th percentile per-packet one-way delay: 146.283 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 472.13 Mbit/s
95th percentile per-packet one-way delay: 146.283 ms
Loss rate: 0.78%
Run 4: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 475.91 Mbit/s)
- Flow 1 egress (mean 472.13 Mbit/s)

![Graph of Per packet one way delay (ms) over Time (s)]

- Flow 1 (95th percentile 146.28 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2018-10-10 13:12:22
End at: 2018-10-10 13:12:52
Local clock offset: 0.039 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-10-10 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 501.50 Mbit/s
95th percentile per-packet one-way delay: 154.876 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 501.50 Mbit/s
95th percentile per-packet one-way delay: 154.876 ms
Loss rate: 1.38%
Run 5: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-10-10 11:16:11
End at: 2018-10-10 11:16:41
Local clock offset: 0.023 ms
Remote clock offset: 0.349 ms

# Below is generated by plot.py at 2018-10-10 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.12 Mbit/s
95th percentile per-packet one-way delay: 121.405 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 366.12 Mbit/s
95th percentile per-packet one-way delay: 121.405 ms
Loss rate: 0.09%
Run 1: Report of PCC-Expr — Data Link

![Graphs showing throughput and delay over time for Flow 1 ingress and egress with mean values and 95th percentile delay.]
Run 2: Statistics of PCC-Expr

Start at: 2018-10-10 11:41:50
End at: 2018-10-10 11:42:21
Local clock offset: -0.127 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-10-10 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 376.54 Mbit/s
95th percentile per-packet one-way delay: 88.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 376.54 Mbit/s
95th percentile per-packet one-way delay: 88.592 ms
Loss rate: 0.00%
Run 2: Report of PCC-Expr — Data Link

![Graph showing throughput and delay over time]

- **Throughput (Mbps)**
- **Time (s)**
- **Flow 1 ingress (mean 376.56 Mbit/s)**
- **Flow 1 egress (mean 376.54 Mbit/s)**

![Graph showing packet delay]

- **Per packet one way delay (ms)**
- **Flow 1 (95th percentile 88.59 ms)**
Run 3: Statistics of PCC-Expr

Start at: 2018-10-10 12:07:31
End at: 2018-10-10 12:08:01
Local clock offset: -0.011 ms
Remote clock offset: 1.318 ms

# Below is generated by plot.py at 2018-10-10 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.41 Mbit/s
95th percentile per-packet one-way delay: 97.208 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 366.41 Mbit/s
95th percentile per-packet one-way delay: 97.208 ms
Loss rate: 0.09%
Run 3: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 366.72 Mbps)
- Flow 1 egress (mean 366.41 Mbps)

![Graph 2: Packet oneway delay (ms) Over Time (s)]

- Flow 1 (95th percentile 97.21 ms)
Run 4: Statistics of PCC-Expr

Start at: 2018-10-10 12:33:20
End at: 2018-10-10 12:33:50
Local clock offset: -0.055 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2018-10-10 14:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.01 Mbit/s
95th percentile per-packet one-way delay: 144.205 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 361.01 Mbit/s
95th percentile per-packet one-way delay: 144.205 ms
Loss rate: 3.66%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2018-10-10 12:59:06
End at: 2018-10-10 12:59:36
Local clock offset: 0.015 ms
Remote clock offset: 0.815 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.22 Mbit/s
95th percentile per-packet one-way delay: 141.106 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 382.22 Mbit/s
95th percentile per-packet one-way delay: 141.106 ms
Loss rate: 1.00%
Run 5: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-10-10 11:28:10
End at: 2018-10-10 11:28:40
Local clock offset: 0.007 ms
Remote clock offset: 0.296 ms
Run 1: Report of QUIC Cubic — Data Link

![Graph of Throughput vs Time](image1)

![Graph of Per-packet round-trip delay vs Time](image2)
Run 2: Statistics of QUIC Cubic

Start at: 2018-10-10 11:53:48
End at: 2018-10-10 11:54:18
Local clock offset: -0.235 ms
Remote clock offset: 0.335 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.94 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.94 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-10-10 12:19:36
End at: 2018-10-10 12:20:06
Local clock offset: -0.024 ms
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 68.63 Mbit/s
  95th percentile per-packet one-way delay: 52.272 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 68.63 Mbit/s
  95th percentile per-packet one-way delay: 52.272 ms
  Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-10-10 12:45:27
End at: 2018-10-10 12:45:57
Local clock offset: -0.064 ms
Remote clock offset: 0.639 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.57 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.57 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 69.57 Mbit/s)  Flow 1 egress (mean 69.57 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.76 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-10-10 13:11:11
End at: 2018-10-10 13:11:41
Local clock offset: -0.02 ms
Remote clock offset: -0.92 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 52.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 52.685 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

[Graph showing throughput and packet arrival delay over time]

Legend:
- Flow 1 ingress (mean 67.69 Mbit/s)
- Flow 1 egress (mean 67.69 Mbit/s)
- Flow 1 (95th percentile 52.69 ms)
Run 1: Statistics of SCReAM

Start at: 2018-10-10 11:27:04
End at: 2018-10-10 11:27:34
Local clock offset: 0.01 ms
Remote clock offset: 1.312 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.568 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

![Graph showing network traffic](image1)

![Graph showing latency](image2)

[Flow 1 ingress (mean 0.21 Mbit/s)]  [Flow 1 egress (mean 0.21 Mbit/s)]

[Flow 1 (95th percentile 54.57 ms)]
Run 2: Statistics of SCReAM

Start at: 2018-10-10 11:52:42
End at: 2018-10-10 11:53:12
Local clock offset: -0.075 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.566 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.566 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

Graph 1: Throughput (Mbps) vs Time (s)
- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 53.57 ms)
Run 3: Statistics of SCReAM

Start at: 2018-10-10 12:18:30
End at: 2018-10-10 12:19:00
Local clock offset: 0.062 ms
Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)

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

- Flow 1 (95th percentile 50.81 ms)
Run 4: Statistics of SCReAM

Start at: 2018-10-10 12:44:21
End at: 2018-10-10 12:44:51
Local clock offset: 0.019 ms
Remote clock offset: 0.274 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)]

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

- Flow 1 (95th percentile 53.91 ms)
Run 5: Statistics of SCReAM

Start at: 2018-10-10 13:10:05
End at: 2018-10-10 13:10:35
Local clock offset: -0.136 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.859 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.859 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2018-10-10 11:23:29
End at: 2018-10-10 11:23:59
Local clock offset: -0.105 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 51.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 51.285 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph showing throughput and packet one-way delay over time.](image-url)
Run 2: Statistics of Sprout

Start at: 2018-10-10 11:49:08
End at: 2018-10-10 11:49:38
Local clock offset: 0.087 ms
Remote clock offset: 0.084 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 8.26 Mbit/s)**
- **Flow 1 egress (mean 8.26 Mbit/s)**
Run 3: Statistics of Sprout

Start at: 2018-10-10 12:14:55
End at: 2018-10-10 12:15:25
Local clock offset: 0.098 ms
Remote clock offset: -1.249 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 49.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.24 Mbit/s
95th percentile per-packet one-way delay: 49.512 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

[Graphs showing network performance metrics such as throughput and packet delay over time.]
Run 4: Statistics of Sprout

Start at: 2018-10-10 12:40:46
End at: 2018-10-10 12:41:16
Local clock offset: -0.063 ms
Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 54.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 54.130 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-10-10 13:06:30
End at: 2018-10-10 13:07:00
Local clock offset: 0.007 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-10-10 14:36:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 8.17 Mbit/s
  95th percentile per-packet one-way delay: 51.581 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 8.17 Mbit/s
  95th percentile per-packet one-way delay: 51.581 ms
  Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 8.17 Mbit/s)**
- **Flow 1 egress (mean 8.17 Mbit/s)**

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

- **Flow 1 (95th percentile 51.58 ms)**
Run 1: Statistics of TaoVA-100x

Start at: 2018-10-10 11:19:11
End at: 2018-10-10 11:19:41
Local clock offset: 0.018 ms
Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-10-10 14:39:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.14 Mbit/s
95th percentile per-packet one-way delay: 50.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.14 Mbit/s
95th percentile per-packet one-way delay: 50.043 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-10-10 11:44:51
End at: 2018-10-10 11:45:21
Local clock offset: 0.058 ms
Remote clock offset: -0.576 ms

# Below is generated by plot.py at 2018-10-10 14:39:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.13 Mbit/s
95th percentile per-packet one-way delay: 52.780 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 241.13 Mbit/s
95th percentile per-packet one-way delay: 52.780 ms
Loss rate: 0.00%
Run 3: Statistics of TaoVA-100x

Start at: 2018-10-10 12:10:37
End at: 2018-10-10 12:11:07
Local clock offset: -0.015 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-10-10 14:39:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.16 Mbit/s
95th percentile per-packet one-way delay: 50.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.16 Mbit/s
95th percentile per-packet one-way delay: 50.130 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2018-10-10 12:36:27
End at: 2018-10-10 12:36:57
Local clock offset: -0.108 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-10-10 14:39:42
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 239.33 Mbit/s
  95th percentile per-packet one-way delay: 50.555 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 239.33 Mbit/s
  95th percentile per-packet one-way delay: 50.555 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 239.33 Mbit/s)**
- **Flow 1 egress (mean 239.33 Mbit/s)**

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

- **Flow 1 (95th percentile 50.55 ms)**
Run 5: Statistics of TaoVA-100x

Start at: 2018-10-10 13:02:13
End at: 2018-10-10 13:02:43
Local clock offset: -0.087 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-10-10 14:42:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.14 Mbit/s
95th percentile per-packet one-way delay: 50.455 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.14 Mbit/s
95th percentile per-packet one-way delay: 50.455 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps)**: The graph shows the throughput rate over time for two flows: Flow 1 ingress and Flow 1 egress. The throughput values range from 0 to 250 Mbps.
- **Packet Delay (ms)**: The second graph illustrates the packet delay for Flow 1, with a 95th percentile delay of 50.45 ms.
Run 1: Statistics of TCP Vegas

Start at: 2018-10-10 11:34:02
End at: 2018-10-10 11:34:32
Local clock offset: -0.004 ms
Remote clock offset: -0.696 ms

# Below is generated by plot.py at 2018-10-10 14:46:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.18 Mbit/s
95th percentile per-packet one-way delay: 62.171 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 631.18 Mbit/s
95th percentile per-packet one-way delay: 62.171 ms
Loss rate: 0.02%
Run 1: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time for TCP Vegas with two lines representing ingress and egress flows.]

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 631.34 Mbps)
- Flow 1 egress (mean 631.18 Mbps)

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 62.17 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-10-10 11:59:43
End at: 2018-10-10 12:00:13
Local clock offset: -0.293 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-10-10 14:47:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 611.22 Mbit/s
95th percentile per-packet one-way delay: 65.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 611.22 Mbit/s
95th percentile per-packet one-way delay: 65.087 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

[Graph of throughput over time with two lines indicating ingress and egress]

[Graph of per-packet one-way delay with a line indicating 95th percentile delay]
Run 3: Statistics of TCP Vegas

Start at: 2018-10-10 12:25:34
End at: 2018-10-10 12:26:04
Local clock offset: 0.043 ms
Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-10-10 14:47:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.05 Mbit/s
95th percentile per-packet one-way delay: 54.029 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 538.05 Mbit/s
95th percentile per-packet one-way delay: 54.029 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

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

![Graph 2: Packet Delay vs Time](image2)
Run 4: Statistics of TCP Vegas

Start at: 2018-10-10 12:51:22
End at: 2018-10-10 12:51:52
Local clock offset: 0.181 ms
Remote clock offset: -0.688 ms

# Below is generated by plot.py at 2018-10-10 14:48:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.56 Mbit/s
95th percentile per-packet one-way delay: 53.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 547.56 Mbit/s
95th percentile per-packet one-way delay: 53.205 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-10-10 13:17:09
End at: 2018-10-10 13:17:39
Local clock offset: 0.073 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-10-10 14:48:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 409.00 Mbit/s
95th percentile per-packet one-way delay: 51.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 409.00 Mbit/s
95th percentile per-packet one-way delay: 51.310 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-10-10 11:35:38
End at: 2018-10-10 11:36:08
Local clock offset: -0.22 ms
Remote clock offset: 1.196 ms

# Below is generated by plot.py at 2018-10-10 14:48:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 183.833 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 183.833 ms
Loss rate: 2.40%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-10-10 12:01:18
End at: 2018-10-10 12:01:48
Local clock offset: -0.09 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-10-10 14:48:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.76 Mbit/s
95th percentile per-packet one-way delay: 71.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.76 Mbit/s
95th percentile per-packet one-way delay: 71.016 ms
Loss rate: 0.00%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 167.76 Mbit/s)
- Flow 1 egress (mean 167.76 Mbit/s)

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

- Flow 1 (95th percentile 71.02 ms)
Run 3: Statistics of Verus

Start at: 2018-10-10 12:27:06
End at: 2018-10-10 12:27:36
Local clock offset: 0.203 ms
Remote clock offset: 0.751 ms

# Below is generated by plot.py at 2018-10-10 14:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.33 Mbit/s
95th percentile per-packet one-way delay: 116.360 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.33 Mbit/s
95th percentile per-packet one-way delay: 116.360 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

![Graph showing network performance metrics]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 161.33 Mbps)
  - Flow 1 egress (mean 161.33 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 116.36 ms)
Run 4: Statistics of Verus

Start at: 2018-10-10 12:52:55
End at: 2018-10-10 12:53:25
Local clock offset: -0.073 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-10-10 14:49:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.73 Mbit/s
95th percentile per-packet one-way delay: 101.926 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 140.73 Mbit/s
95th percentile per-packet one-way delay: 101.926 ms
Loss rate: 0.11%
Run 4: Report of Verus — Data Link

![Throughput Graph](image1)

**Flow 1 ingress (mean 141.03 Mbit/s)**  
**Flow 1 egress (mean 140.73 Mbit/s)**

![Packet Delay Graph](image2)

**Flow 1 (95th percentile 101.93 ms)**
Run 5: Statistics of Verus

Start at: 2018-10-10 13:18:35
End at: 2018-10-10 13:19:05
Local clock offset: 0.032 ms
Remote clock offset: 1.29 ms

# Below is generated by plot.py at 2018-10-10 14:51:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.02 Mbit/s
95th percentile per-packet one-way delay: 107.469 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 201.02 Mbit/s
95th percentile per-packet one-way delay: 107.469 ms
Loss rate: 0.09%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-10-10 11:32:29
End at: 2018-10-10 11:32:59
Local clock offset: -0.051 ms
Remote clock offset: -0.562 ms

# Below is generated by plot.py at 2018-10-10 14:51:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 413.29 Mbit/s
95th percentile per-packet one-way delay: 56.555 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 413.29 Mbit/s
95th percentile per-packet one-way delay: 56.555 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

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

Flow 1 ingress (mean 413.28 Mbit/s)
Flow 1 egress (mean 413.29 Mbit/s)

Flow 1 (95th percentile 56.55 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-10-10 11:58:11
End at: 2018-10-10 11:58:41
Local clock offset: ~0.009 ms
Remote clock offset: 0.781 ms

# Below is generated by plot.py at 2018-10-10 14:51:58
# Datalink statistics
-- Total of 1 flow:
   Average throughput: 406.65 Mbit/s
   95th percentile per-packet one-way delay: 55.111 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 406.65 Mbit/s
   95th percentile per-packet one-way delay: 55.111 ms
   Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 406.65 Mbit/s)
- Flow 1 egress (mean 406.65 Mbit/s)

![Graph of Per packet one way delay (ms) over Time (s)]

- Flow 1 (95th percentile 55.11 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2018-10-10 12:24:01
End at: 2018-10-10 12:24:31
Local clock offset: -0.017 ms
Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-10-10 14:52:15
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 411.32 Mbit/s
  95th percentile per-packet one-way delay: 54.326 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 411.32 Mbit/s
  95th percentile per-packet one-way delay: 54.326 ms
  Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-10-10 12:49:49
End at: 2018-10-10 12:50:19
Local clock offset: -0.281 ms
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2018-10-10 14:52:17
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 399.98 Mbit/s
  95th percentile per-packet one-way delay: 63.440 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 399.98 Mbit/s
  95th percentile per-packet one-way delay: 63.440 ms
  Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph showing throughput and time for data link measurements.]
Run 5: Statistics of PCC-Vivace

Start at: 2018-10-10 13:15:38
End at: 2018-10-10 13:16:08
Local clock offset: -0.023 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-10-10 14:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.99 Mbit/s
95th percentile per-packet one-way delay: 116.331 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 384.99 Mbit/s
95th percentile per-packet one-way delay: 116.331 ms
Loss rate: 0.38%
Run 5: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps)]

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

Start at: 2018-10-10 11:24:36  
End at: 2018-10-10 11:25:06  
Local clock offset: -0.122 ms  
Remote clock offset: -0.149 ms  

# Below is generated by plot.py at 2018-10-10 14:52:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 50.254 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 50.254 ms  
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.10 Mbit/s)
- Flow 1 egress (mean 2.10 Mbit/s)

![Graph of packet delay distribution for Flow 1.]

- Flow 1 (99th percentile 58.25 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-10-10 11:50:15
End at: 2018-10-10 11:50:45
Local clock offset: -0.135 ms
Remote clock offset: 1.409 ms

# Below is generated by plot.py at 2018-10-10 14:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 55.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 55.214 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Graph showing throughput over time for two flows: Flow 1 ingress and Flow 1 egress.]

![Graph showing per-packet one-way delay over time for Flow 1.]
Run 3: Statistics of WebRTC media

Start at: 2018-10-10 12:16:03
End at: 2018-10-10 12:16:33
Local clock offset: 0.009 ms
Remote clock offset: -0.724 ms

# Below is generated by plot.py at 2018-10-10 14:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 52.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 52.417 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

![Graph showing throughput and delay over time for WebRTC media run 3. The graphs illustrate the variation in throughput and delay across different time intervals.](image-url)
Run 4: Statistics of WebRTC media

Start at: 2018-10-10 12:41:53
End at: 2018-10-10 12:42:23
Local clock offset: -0.2 ms
Remote clock offset: -0.836 ms

# Below is generated by plot.py at 2018-10-10 14:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 53.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 53.214 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 5: Statistics of WebRTC media

Start at: 2018-10-10 13:07:37
End at: 2018-10-10 13:08:07
Local clock offset: -0.109 ms
Remote clock offset: -0.327 ms

# Below is generated by plot.py at 2018-10-10 14:52:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.91 Mbit/s
  95th percentile per-packet one-way delay: 50.133 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 1.91 Mbit/s
  95th percentile per-packet one-way delay: 50.133 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graph of WebRTC media data](image)

- Flow 1 ingress (mean 1.91 Mbit/s)
- Flow 1 egress (mean 1.91 Mbit/s)

![Graph of packet delay distribution](image)

- Flow 1 (95th percentile 50.13 ms)

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