Pantheon Report

Generated at 2019-08-27 20:15:42 (UTC).
Data path: GCE Iowa on ens4 (remote) → GCE London on ens4 (local).
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 4.15.0-1036-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 @ de42328552b3776a75a932a94dfafad722537b0ec
third_party/fillp @ d67a1459332fcee56963885d7eba17e6a324519
third_party/fillp-sheep @ 0e5bb722943babcbcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbfe58e562f4
third_party/indigo @ 2601c9e4a9d58d38dc4dfe0ecdbe90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bbb7cf3cf
third_party/muses @ 5ce7211b63d1d2d3da20955377730c746486ca4966
third_party/muses_dtree @ 387225f7b5f616b0eb932a6e5f164c84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af9d942717625ee3a354cc2e802b
third_party/pcc @ 1afc958fa0d66d18b623c091a55f5ec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34f3f5613e8ad08fab92c4eb24f974ab
third_party/proto-quick @ 7796f11a82733a86b42ficbc8443e9c98f3c7f42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b0b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e3d4a6ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutb2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562539f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Iowa to GCE London, 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>500.61</td>
<td>145.91</td>
<td>0.59</td>
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<tr>
<td>Copa</td>
<td>5</td>
<td>285.46</td>
<td>58.82</td>
<td>0.32</td>
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<tr>
<td>TCP Cubic</td>
<td>5</td>
<td>537.02</td>
<td>96.31</td>
<td>0.37</td>
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<tr>
<td>FillP</td>
<td>5</td>
<td>868.19</td>
<td>93.66</td>
<td>0.69</td>
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<td>FillP-Sheep</td>
<td>5</td>
<td>842.11</td>
<td>81.41</td>
<td>0.55</td>
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<td>Indigo</td>
<td>5</td>
<td>190.42</td>
<td>48.60</td>
<td>0.37</td>
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<td>Indigo-MusesC3</td>
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<td>551.97</td>
<td>63.17</td>
<td>0.36</td>
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<td>Indigo-MusesC5</td>
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<td>575.38</td>
<td>77.02</td>
<td>0.37</td>
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<td>72.97</td>
<td>0.30</td>
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<td>Indigo-MusesT</td>
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<td>0.41</td>
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<td>48.69</td>
<td>0.59</td>
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<td>Muses_DecisionTree</td>
<td>5</td>
<td>577.51</td>
<td>62.38</td>
<td>0.32</td>
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<tr>
<td>Muses_DecisionTreeH0</td>
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<td>325.62</td>
<td>112.26</td>
<td>0.54</td>
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<tr>
<td>Muses_DecisionTreeR0</td>
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<td>535.93</td>
<td>70.17</td>
<td>0.36</td>
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<td>PCC-Allegro</td>
<td>5</td>
<td>394.64</td>
<td>151.04</td>
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<td>PCC-Expr</td>
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<td>293.45</td>
<td>147.52</td>
<td>2.60</td>
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<td>80.05</td>
<td>47.64</td>
<td>0.42</td>
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<td>SCRream</td>
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<td>0.22</td>
<td>47.69</td>
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<td>Sprout</td>
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<td>9.57</td>
<td>47.48</td>
<td>0.36</td>
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<td>242.86</td>
<td>47.65</td>
<td>0.32</td>
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<td>TCP Vegas</td>
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<td>439.88</td>
<td>62.50</td>
<td>0.30</td>
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<td>Verus</td>
<td>5</td>
<td>174.83</td>
<td>121.07</td>
<td>0.56</td>
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<td>PCC-Vivace</td>
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<td>59.28</td>
<td>0.47</td>
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<td>WebRTC media</td>
<td>3</td>
<td>0.05</td>
<td>48.70</td>
<td>0.00</td>
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</table>
Run 1: Statistics of TCP BBR

Start at: 2019-08-27 15:48:30
End at: 2019-08-27 15:49:00
Local clock offset: -0.186 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-08-27 18:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.00 Mbit/s
95th percentile per-packet one-way delay: 180.227 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 494.00 Mbit/s
95th percentile per-packet one-way delay: 180.227 ms
Loss rate: 0.84%
Run 1: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

**Throughput (Mbps)**

- **Flow 1 ingress (mean 496.60 Mbps)**
- **Flow 1 egress (mean 494.00 Mbps)**

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

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

- **Flow 1 (95th percentile 180.23 ms)**
Run 2: Statistics of TCP BBR

End at: 2019-08-27 16:23:03
Local clock offset: -0.225 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-08-27 18:46:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 485.70 Mbit/s
95th percentile per-packet one-way delay: 139.479 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 485.70 Mbit/s
95th percentile per-packet one-way delay: 139.479 ms
Loss rate: 0.50%
Run 2: Report of TCP BBR — Data Link

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

Flow 1 ingress (mean 486.57 Mbit/s)  Flow 1 egress (mean 485.70 Mbit/s)

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

Flow 1 (95th percentile 139.48 ms)
Run 3: Statistics of TCP BBR

Start at: 2019-08-27 16:56:44
End at: 2019-08-27 16:57:15
Local clock offset: -0.243 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-08-27 18:46:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.15 Mbit/s
95th percentile per-packet one-way delay: 146.229 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 514.15 Mbit/s
95th percentile per-packet one-way delay: 146.229 ms
Loss rate: 0.54%
Run 3: Report of TCP BBR — Data Link

![Graph 1: Throughput vs Time]

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 515.33 Mbps)  Flow 1 egress (mean 514.15 Mbps)

![Graph 2: RTT vs Time]

RTT (ms)

Time (s)

Flow 1 (95th percentile 146.23 ms)
Run 4: Statistics of TCP BBR

Start at: 2019-08-27 17:30:53
End at: 2019-08-27 17:31:23
Local clock offset: -0.337 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-08-27 18:46:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.02 Mbit/s
95th percentile per-packet one-way delay: 135.753 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 494.02 Mbit/s
95th percentile per-packet one-way delay: 135.753 ms
Loss rate: 0.75%
Run 4: Report of TCP BBR — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 496.16 Mbit/s)
- Flow 1 egress (mean 494.02 Mbit/s)

![Per-packet delay Graph]

- Flow 1 (95th percentile 135.75 ms)
Run 5: Statistics of TCP BBR

Start at: 2019-08-27 18:05:00
End at: 2019-08-27 18:05:30
Local clock offset: -0.348 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-08-27 18:46:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.17 Mbit/s
95th percentile per-packet one-way delay: 127.850 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 515.17 Mbit/s
95th percentile per-packet one-way delay: 127.850 ms
Loss rate: 0.33%
Run 5: Report of TCP BBR — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 515.25 Mbps)
Flow 1 egress (mean 515.17 Mbps)

Per packet one way delay (ms)

Flow 1 (95th percentile 127.85 ms)
Run 1: Statistics of Copa

Start at: 2019-08-27 15:42:46
End at: 2019-08-27 15:43:17
Local clock offset: -0.197 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-08-27 18:47:19
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 321.02 Mbit/s
  95th percentile per-packet one-way delay: 55.477 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 321.02 Mbit/s
  95th percentile per-packet one-way delay: 55.477 ms
  Loss rate: 0.32%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2019-08-27 16:16:59  
End at: 2019-08-27 16:17:29  
Local clock offset: -0.158 ms  
Remote clock offset: -0.016 ms  

# Below is generated by plot.py at 2019-08-27 18:47:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 265.35 Mbit/s  
95th percentile per-packet one-way delay: 60.635 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 265.35 Mbit/s  
95th percentile per-packet one-way delay: 60.635 ms  
Loss rate: 0.34%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2019-08-27 16:51:10
End at: 2019-08-27 16:51:40
Local clock offset: -0.193 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-08-27 18:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.38 Mbit/s
95th percentile per-packet one-way delay: 66.755 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 291.38 Mbit/s
95th percentile per-packet one-way delay: 66.755 ms
Loss rate: 0.30%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2019-08-27 17:25:20
End at: 2019-08-27 17:25:50
Local clock offset: -0.301 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-08-27 18:52:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.45 Mbit/s
95th percentile per-packet one-way delay: 56.644 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 231.45 Mbit/s
95th percentile per-packet one-way delay: 56.644 ms
Loss rate: 0.36%
Run 5: Statistics of Copa

Start at: 2019-08-27 17:59:19
End at: 2019-08-27 17:59:49
Local clock offset: -0.366 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-08-27 18:54:21
# Datalink statistics

-- Total of 1 flow:
Average throughput: 318.09 Mbit/s
95th percentile per-packet one-way delay: 54.586 ms
Loss rate: 0.30%

-- Flow 1:
Average throughput: 318.09 Mbit/s
95th percentile per-packet one-way delay: 54.586 ms
Loss rate: 0.30%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 15:38:37
End at: 2019-08-27 15:39:07
Local clock offset: -0.201 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-08-27 18:54:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.75 Mbit/s
95th percentile per-packet one-way delay: 114.904 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 547.75 Mbit/s
95th percentile per-packet one-way delay: 114.904 ms
Loss rate: 0.34%
Run 1: Report of TCP Cubic — Data Link

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

**Throughput (Mbps)**

- Flow 1 ingress (mean 547.82 Mbps)
- Flow 1 egress (mean 547.75 Mbps)

**One-way Delay (ms)**

- Flow 1 (95th percentile 114.90 ms)
Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 16:12:44
End at: 2019-08-27 16:13:14
Local clock offset: -0.218 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-08-27 18:54:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.27 Mbit/s
95th percentile per-packet one-way delay: 147.418 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 563.27 Mbit/s
95th percentile per-packet one-way delay: 147.418 ms
Loss rate: 0.34%
Run 2: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 563.40 Mbit/s)
- Flow 1 egress (mean 563.27 Mbit/s)

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

- Flow 1 (95th percentile 147.42 ms)
Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 16:47:01
End at: 2019-08-27 16:47:32
Local clock offset: -0.24 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-08-27 18:54:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.26 Mbit/s
95th percentile per-packet one-way delay: 77.627 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 498.26 Mbit/s
95th percentile per-packet one-way delay: 77.627 ms
Loss rate: 0.41%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 17:21:06
End at: 2019-08-27 17:21:36
Local clock offset: -0.281 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-08-27 18:54:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 521.73 Mbit/s
95th percentile per-packet one-way delay: 71.782 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 521.73 Mbit/s
95th percentile per-packet one-way delay: 71.782 ms
Loss rate: 0.46%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress: mean 522.47 Mbit/s
- Flow 1 egress: mean 521.73 Mbit/s

![Graph showing packet delay.]

- Flow 1 (95th percentile 71.78 ms)
Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 17:55:04
End at: 2019-08-27 17:55:34
Local clock offset: -0.377 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-08-27 18:54:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.10 Mbit/s
95th percentile per-packet one-way delay: 69.795 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 554.10 Mbit/s
95th percentile per-packet one-way delay: 69.795 ms
Loss rate: 0.31%
Run 5: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2019-08-27 16:08:04
End at: 2019-08-27 16:08:34
Local clock offset: -0.164 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-08-27 19:00:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 849.57 Mbit/s
95th percentile per-packet one-way delay: 93.681 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 849.57 Mbit/s
95th percentile per-packet one-way delay: 93.681 ms
Loss rate: 1.30%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2019-08-27 16:42:19
End at: 2019-08-27 16:42:49
Local clock offset: -0.207 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2019-08-27 19:08:05
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 867.23 Mbit/s
  95th percentile per-packet one-way delay: 99.678 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 867.23 Mbit/s
  95th percentile per-packet one-way delay: 99.678 ms
  Loss rate: 0.49%
Run 2: Report of FillP — Data Link

- **Flow 1 Ingress (mean 868.73 Mbps)**
- **Flow 1 Egress (mean 867.23 Mbps)**

- **Flow 1 (95th percentile 99.68 ms)**
Run 3: Statistics of FillP

Start at: 2019-08-27 17:16:26
End at: 2019-08-27 17:16:57
Local clock offset: 0.093 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-08-27 19:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 858.06 Mbit/s
95th percentile per-packet one-way delay: 96.974 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 858.06 Mbit/s
95th percentile per-packet one-way delay: 96.974 ms
Loss rate: 0.44%
Run 3: Report of FillP — Data Link

![Graph of Throughput vs Time]

- Flow 1 Ingress (mean 859.13 Mbits)
- Flow 1 Egress (mean 858.06 Mbits)

![Graph of Per Socket One Way Delay vs Time]

- Flow 1 (95th percentile 96.97 ms)
Run 4: Statistics of FillP

Start at: 2019-08-27 17:50:20
End at: 2019-08-27 17:50:50
Local clock offset: -0.364 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-08-27 19:09:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 888.67 Mbit/s
95th percentile per-packet one-way delay: 88.661 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 888.67 Mbit/s
95th percentile per-packet one-way delay: 88.661 ms
Loss rate: 0.49%
Run 4: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 890.16 Mbps)
- Flow 1 Egress (mean 888.67 Mbps)

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

- Flow 1 (95th percentile 88.66 ms)
Run 5: Statistics of FillP

Start at: 2019-08-27 18:24:45
End at: 2019-08-27 18:25:15
Local clock offset: -0.389 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-08-27 19:09:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 877.44 Mbit/s
95th percentile per-packet one-way delay: 89.312 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 877.44 Mbit/s
95th percentile per-packet one-way delay: 89.312 ms
Loss rate: 0.73%
Run 5: Report of FillP — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 15:52:41
End at: 2019-08-27 15:53:11
Local clock offset: -0.583 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-08-27 19:09:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 818.86 Mbit/s
95th percentile per-packet one-way delay: 78.233 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 818.86 Mbit/s
95th percentile per-packet one-way delay: 78.233 ms
Loss rate: 0.61%
Run 1: Report of FillP-Sheep — Data Link

Throughput (Mbit/s) vs. Time (s)

- Flow 1 ingress (mean 821.24 Mbit/s)
- Flow 1 egress (mean 818.86 Mbit/s)

Packet delay vs. Time (s)

- Flow 1 (95th percentile 78.23 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 16:26:49
End at: 2019-08-27 16:27:19
Local clock offset: -0.174 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-08-27 19:09:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 831.03 Mbit/s
95th percentile per-packet one-way delay: 76.213 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 831.03 Mbit/s
95th percentile per-packet one-way delay: 76.213 ms
Loss rate: 0.34%
Run 2: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress** (mean 831.15 Mbit/s)
- **Flow 1 egress** (mean 831.03 Mbit/s)

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

- **Flow 1 (95th percentile 76.21 ms)**
Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 17:01:00
End at: 2019-08-27 17:01:30
Local clock offset: -0.253 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-08-27 19:09:23
# Datalink statistics
-- Total of 1 flow:
   Average throughput: 821.28 Mbit/s
   95th percentile per-packet one-way delay: 94.879 ms
   Loss rate: 0.78%
-- Flow 1:
   Average throughput: 821.28 Mbit/s
   95th percentile per-packet one-way delay: 94.879 ms
   Loss rate: 0.78%
Run 3: Report of FillP-Sheep — Data Link

![Graph showing data link performance metrics over time]

- **Flow 1 ingress (mean 825.15 Mbits)**
- **Flow 1 egress (mean 821.28 Mbits)**

![Graph showing packet delay distribution]

- **Flow 1 (95th percentile 94.88 ms)**
Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 17:35:06
End at: 2019-08-27 17:35:36
Local clock offset: -0.328 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-08-27 19:19:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 859.40 Mbit/s
95th percentile per-packet one-way delay: 78.676 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 859.40 Mbit/s
95th percentile per-packet one-way delay: 78.676 ms
Loss rate: 0.36%
Run 4: Report of FillP-Sheep — Data Link
Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 18:09:15
End at: 2019-08-27 18:09:45
Local clock offset: -0.393 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 879.96 Mbit/s
  95th percentile per-packet one-way delay: 79.031 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 879.96 Mbit/s
  95th percentile per-packet one-way delay: 79.031 ms
  Loss rate: 0.67%
Run 5: Report of FillP-Sheep — Data Link

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

- Flow 1 ingress (mean 883.04 Mbps)
- Flow 1 egress (mean 879.96 Mbps)

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

- Flow 1 (95th percentile 79.03 ms)
Run 1: Statistics of Indigo

Start at: 2019-08-27 16:02:23
End at: 2019-08-27 16:02:53
Local clock offset: -0.206 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 209.28 Mbit/s
  95th percentile per-packet one-way delay: 49.485 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 209.28 Mbit/s
  95th percentile per-packet one-way delay: 49.485 ms
  Loss rate: 0.38%
Run 1: Report of Indigo — Data Link

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 209.40 Mbps)
- Flow 1 egress (mean 209.28 Mbps)

Packet round-trip delay (ms)

Time (s)

- Flow 1 (95th percentile 49.48 ms)
Run 2: Statistics of Indigo

Start at: 2019-08-27 16:36:38
End at: 2019-08-27 16:37:08
Local clock offset: -0.22 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 190.45 Mbit/s
  95th percentile per-packet one-way delay: 48.459 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 190.45 Mbit/s
  95th percentile per-packet one-way delay: 48.459 ms
  Loss rate: 0.37%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2019-08-27 17:10:40
End at: 2019-08-27 17:11:10
Local clock offset: -0.276 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.09 Mbit/s
95th percentile per-packet one-way delay: 48.312 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 228.09 Mbit/s
95th percentile per-packet one-way delay: 48.312 ms
Loss rate: 0.36%
Run 3: Report of Indigo — Data Link

![Graph showing throughput and delay over time]

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 228.17 Mbit/s)  Flow 1 egress (mean 228.09 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 48.31 ms)
Run 4: Statistics of Indigo

Start at: 2019-08-27 17:44:46
End at: 2019-08-27 17:45:16
Local clock offset: -0.334 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.38 Mbit/s
95th percentile per-packet one-way delay: 48.300 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 114.38 Mbit/s
95th percentile per-packet one-way delay: 48.300 ms
Loss rate: 0.34%
Run 4: Report of Indigo — Data Link

![Graph of Throughput vs Time]

- **Flow 1 ingress (mean 114.39 Mbit/s)**
- **Flow 1 egress (mean 114.38 Mbit/s)**

![Graph of Packet One-Way Delay vs Time]

- **Flow 1 (95th percentile 48.30 ms)**
Run 5: Statistics of Indigo

Start at: 2019-08-27 18:19:03
End at: 2019-08-27 18:19:33
Local clock offset: -0.47 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 209.90 Mbit/s
  95th percentile per-packet one-way delay: 48.437 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 209.90 Mbit/s
  95th percentile per-packet one-way delay: 48.437 ms
  Loss rate: 0.38%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 15:40:09
End at: 2019-08-27 15:40:39
Local clock offset: -0.222 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.87 Mbit/s
95th percentile per-packet one-way delay: 61.415 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 546.87 Mbit/s
95th percentile per-packet one-way delay: 61.415 ms
Loss rate: 0.30%
Run 1: Report of Indigo-MusesC3 — Data Link
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 16:14:18
End at: 2019-08-27 16:14:48
Local clock offset: -0.186 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.67 Mbit/s
95th percentile per-packet one-way delay: 68.941 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 548.67 Mbit/s
95th percentile per-packet one-way delay: 68.941 ms
Loss rate: 0.40%
Run 2: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 549.02 Mbit/s)
- Flow 1 egress (mean 548.67 Mbit/s)

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

- Flow 1 (95th percentile 68.94 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 16:48:31
End at: 2019-08-27 16:49:01
Local clock offset: -0.15 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 501.04 Mbit/s
  95th percentile per-packet one-way delay: 61.372 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 501.04 Mbit/s
  95th percentile per-packet one-way delay: 61.372 ms
  Loss rate: 0.34%
Run 3: Report of Indigo-MusesC3 — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 17:22:36
End at: 2019-08-27 17:23:06
Local clock offset: -0.316 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.84 Mbit/s
95th percentile per-packet one-way delay: 60.592 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 583.84 Mbit/s
95th percentile per-packet one-way delay: 60.592 ms
Loss rate: 0.37%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph 1](image1)

Flow 1 ingress (mean 584.06 Mbit/s) vs Flow 1 egress (mean 583.84 Mbit/s)

![Graph 2](image2)

Flow 1 (95th percentile 60.59 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 17:56:36
End at: 2019-08-27 17:57:06
Local clock offset: -0.364 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-08-27 19:23:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.45 Mbit/s
95th percentile per-packet one-way delay: 63.547 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 579.45 Mbit/s
95th percentile per-packet one-way delay: 63.547 ms
Loss rate: 0.38%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 15:35:56
End at: 2019-08-27 15:36:26
Local clock offset: -0.2 ms
Remote clock offset: -0.02 ms
Run 1: Report of Indigo-MusesC5 — Data Link

- **Throughput (Mbps)**
  - X-axis: Time (s)
  - Y-axis: Throughput (Mbps)
  - Legend: Flow 1 ingress (mean 261.14 Mbps), Flow 1 egress (mean 247.22 Mbps)

- **Per packet one way delay (ms)**
  - X-axis: Time (s)
  - Y-axis: Per packet one way delay (ms)
  - Legend: Flow 1 (95th percentile 104.75 ms)
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 16:09:43
End at: 2019-08-27 16:10:13
Local clock offset: -0.207 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-08-27 19:23:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.59 Mbit/s
95th percentile per-packet one-way delay: 71.078 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 585.59 Mbit/s
95th percentile per-packet one-way delay: 71.078 ms
Loss rate: 0.41%
Run 2: Report of Indigo-MusesC5 — Data Link
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 16:43:58
End at: 2019-08-27 16:44:28
Local clock offset: -0.192 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-08-27 19:25:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 576.04 Mbit/s
95th percentile per-packet one-way delay: 83.153 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 576.04 Mbit/s
95th percentile per-packet one-way delay: 83.153 ms
Loss rate: 0.40%
Run 3: Report of Indigo-MusesC5 — Data Link

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

- Flow 1 ingress (mean 576.38 Mbps)
- Flow 1 egress (mean 576.04 Mbps)

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

- Flow 1 (95th percentile 83.15 ms)
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 17:18:05
End at: 2019-08-27 17:18:35
Local clock offset: -0.257 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-08-27 19:26:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.47 Mbit/s
95th percentile per-packet one-way delay: 82.045 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 566.47 Mbit/s
95th percentile per-packet one-way delay: 82.045 ms
Loss rate: 0.35%
Run 4: Report of Indigo-MusesC5 — Data Link

![Graph 1: Throughput (Mbps) vs. Time (s)]
- Flow 1 ingress (mean 566.56 Mbps)
- Flow 1 egress (mean 566.47 Mbps)

![Graph 2: Per-packet one way delay (ms) vs. Time (s)]
- Flow 1 (95th percentile 82.05 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 17:51:59
End at: 2019-08-27 17:52:29
Local clock offset: -0.365 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-08-27 19:28:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 573.42 Mbit/s
95th percentile per-packet one-way delay: 71.784 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 573.42 Mbit/s
95th percentile per-packet one-way delay: 71.784 ms
Loss rate: 0.33%
Run 5: Report of Indigo-MusesC5 — Data Link

![Graph of throughput and latency](image)

- **Throughput (Mbps)**
  - **Flow 1 ingress (mean 573.39 Mbps)**
  - **Flow 1 egress (mean 573.42 Mbps)**

- **Per packet one-way delay (ms)**
  - **Flow 1 (95th percentile 71.78 ms)**
Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 16:00:56
End at: 2019-08-27 16:01:26
Local clock offset: -0.171 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-08-27 19:28:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 473.69 Mbit/s
95th percentile per-packet one-way delay: 84.805 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 473.69 Mbit/s
95th percentile per-packet one-way delay: 84.805 ms
Loss rate: 0.26%
Run 1: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 473.23 Mbit/s)  Flow 1 egress (mean 473.69 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 84.81 ms)
Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 16:35:10  
End at: 2019-08-27 16:35:40  
Local clock offset: -0.2 ms  
Remote clock offset: -0.007 ms  

# Below is generated by plot.py at 2019-08-27 19:29:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 484.65 Mbit/s  
95th percentile per-packet one-way delay: 56.393 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 484.65 Mbit/s  
95th percentile per-packet one-way delay: 56.393 ms  
Loss rate: 0.44%
Run 2: Report of Indigo-MusesD — Data Link

![Graph showing throughput and per-packet one-way delay](image)

- **Flow 1 ingress (mean 485.17 Mbit/s)**
- **Flow 1 egress (mean 484.65 Mbit/s)**
- **Flow 1 (95th percentile 56.39 ms)**
Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 17:09:13
End at: 2019-08-27 17:09:43
Local clock offset: -0.234 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-08-27 19:30:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 487.04 Mbit/s
95th percentile per-packet one-way delay: 93.203 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 487.04 Mbit/s
95th percentile per-packet one-way delay: 93.203 ms
Loss rate: 0.29%
Run 3: Report of Indigo-MusesD — Data Link

![Graph 1: Throughput (Mbps) over Time (s) for Flow 1 ingress (486.76 Mbps) and Flow 1 egress (487.04 Mbps)]

![Graph 2: Per-packet one-way delay (ms) over Time (s) for Flow 1 (95th percentile 93.20 ms)]
Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 17:43:17
End at: 2019-08-27 17:43:47
Local clock offset: -0.265 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-08-27 19:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.26 Mbit/s
95th percentile per-packet one-way delay: 60.257 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 506.26 Mbit/s
95th percentile per-packet one-way delay: 60.257 ms
Loss rate: 0.24%
Run 4: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 505.67 Mbit/s)  Flow 1 egress (mean 506.26 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 60.26 ms)
Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 18:17:35
End at: 2019-08-27 18:18:05
Local clock offset: -0.364 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-08-27 19:30:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 495.51 Mbit/s
95th percentile per-packet one-way delay: 70.181 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 495.51 Mbit/s
95th percentile per-packet one-way delay: 70.181 ms
Loss rate: 0.29%
Run 5: Report of Indigo-MusesD — Data Link
Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 16:03:48
End at: 2019-08-27 16:04:18
Local clock offset: -0.187 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-08-27 19:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.13 Mbit/s
95th percentile per-packet one-way delay: 100.682 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 602.13 Mbit/s
95th percentile per-packet one-way delay: 100.682 ms
Loss rate: 0.36%
Run 1: Report of Indigo-MusesT — Data Link

![Throughput Graph](Image)

Flow 1 ingress (mean 602.17 Mbit/s)  
Flow 1 egress (mean 602.13 Mbit/s)

![Delay Graph](Image)

Flow 1 (95th percentile 100.68 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 16:38:02
End at: 2019-08-27 16:38:32
Local clock offset: -0.227 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-08-27 19:35:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.76 Mbit/s
95th percentile per-packet one-way delay: 77.926 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 550.76 Mbit/s
95th percentile per-packet one-way delay: 77.926 ms
Loss rate: 0.35%
Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 17:12:07
End at: 2019-08-27 17:12:37
Local clock offset: -0.246 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-08-27 19:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.18 Mbit/s
95th percentile per-packet one-way delay: 97.916 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 602.18 Mbit/s
95th percentile per-packet one-way delay: 97.916 ms
Loss rate: 0.35%
Run 3: Report of Indigo-MusesT — Data Link

[Graph of throughput over time showing fluctuations in data link performance.]

[Graph of one-way delay showing spikes and variability in data link latency.]

Flow 1 ingress (mean 602.19 Mbit/s)  Flow 1 egress (mean 602.18 Mbit/s)

Flow 1 (95th percentile 97.92 ms)
Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 17:46:03
End at: 2019-08-27 17:46:33
Local clock offset: -0.366 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-08-27 19:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 620.12 Mbit/s
95th percentile per-packet one-way delay: 99.034 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 620.12 Mbit/s
95th percentile per-packet one-way delay: 99.034 ms
Loss rate: 0.48%
Run 4: Report of Indigo-MusesT — Data Link

![Graph](image1)

![Graph](image2)
Run 5: Statistics of Indigo-MuseST

Start at: 2019-08-27 18:20:28
End at: 2019-08-27 18:20:58
Local clock offset: -0.001 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-08-27 19:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 597.89 Mbit/s
95th percentile per-packet one-way delay: 87.223 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 597.89 Mbit/s
95th percentile per-packet one-way delay: 87.223 ms
Loss rate: 0.52%
Run 5: Report of Indigo-MusesT — Data Link
Run 1: Statistics of LEDBAT

Start at: 2019-08-27 15:51:30
End at: 2019-08-27 15:52:00
Local clock offset: -0.191 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-08-27 19:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 49.905 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 49.905 ms
Loss rate: 0.64%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2019-08-27 16:25:38
End at: 2019-08-27 16:26:08
Local clock offset: -0.209 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-08-27 19:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 48.120 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 48.120 ms
Loss rate: 0.63%
Run 2: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 41.03 Mbit/s)
- Flow 1 egress (mean 40.91 Mbit/s)

![Graph 2: Per-packet round-trip time vs. Time](image2)

- Flow 1 (90th percentile 48.12 ms)
Run 3: Statistics of LEDBAT

Start at: 2019-08-27 16:59:50
End at: 2019-08-27 17:00:20
Local clock offset: ~0.223 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-08-27 19:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 48.505 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 35.63 Mbit/s
95th percentile per-packet one-way delay: 48.505 ms
Loss rate: 0.43%
Run 3: Report of LEDBAT — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 4: Statistics of LEDBAT

Start at: 2019-08-27 17:33:54
End at: 2019-08-27 17:34:24
Local clock offset: -0.294 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-08-27 19:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 48.583 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.89 Mbit/s
95th percentile per-packet one-way delay: 48.583 ms
Loss rate: 0.63%
Run 4: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 41.01 Mbit/s)
- **Flow 1 egress** (mean 40.89 Mbit/s)

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

- **Flow 1** (90th percentile 48.38 ms)
Run 5: Statistics of LEDBAT

Start at: 2019-08-27 18:08:04
End at: 2019-08-27 18:08:34
Local clock offset: -0.366 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-08-27 19:37:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 48.328 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 48.328 ms
Loss rate: 0.63%
Run 5: Report of LEDBAT — Data Link

![Graph 1: Throughput over Time]

- **Flow 1 ingress** (mean 41.04 Mbps)
- **Flow 1 egress** (mean 40.91 Mbps)

![Graph 2: Per-packet End-to-End Delay over Time]

- **Flow 1** (95th percentile 48.33 ms)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 15:54:18
End at: 2019-08-27 15:54:48
Local clock offset: -0.262 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-08-27 19:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.82 Mbit/s
95th percentile per-packet one-way delay: 68.581 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 565.82 Mbit/s
95th percentile per-packet one-way delay: 68.581 ms
Loss rate: 0.33%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

End at: 2019-08-27 16:28:58
Local clock offset: -0.293 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-08-27 19:41:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.18 Mbit/s
95th percentile per-packet one-way delay: 59.826 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 570.18 Mbit/s
95th percentile per-packet one-way delay: 59.826 ms
Loss rate: 0.35%
Run 2: Report of Muses_DecisionTree — Data Link

![Graph 1: Throughput vs. Time]

- Flow 1 ingress (mean 570.35 Mbit/s)
- Flow 1 egress (mean 570.18 Mbit/s)

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

- Flow 1 (95th percentile 59.83 ms)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 17:02:37  
End at: 2019-08-27 17:03:07  
Local clock offset: -0.259 ms  
Remote clock offset: 0.004 ms  

# Below is generated by plot.py at 2019-08-27 19:42:18  
# Datalink statistics  
-- Total of 1 flow:  
  Average throughput: 580.39 Mbit/s  
  95th percentile per-packet one-way delay: 67.423 ms  
  Loss rate: 0.34%  
-- Flow 1:  
  Average throughput: 580.39 Mbit/s  
  95th percentile per-packet one-way delay: 67.423 ms  
  Loss rate: 0.34%
Run 3: Report of Muses DecisionTree — Data Link

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

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

Legend:
- Blue dashed line: Flow 1 ingress (mean 580.51 Mbps)
- Blue solid line: Flow 1 egress (mean 580.39 Mbps)

Flow 1 (95th percentile 67.42 ms)
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 17:36:43
End at: 2019-08-27 17:37:13
Local clock offset: -0.308 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-08-27 19:43:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.51 Mbit/s
95th percentile per-packet one-way delay: 56.875 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 586.51 Mbit/s
95th percentile per-packet one-way delay: 56.875 ms
Loss rate: 0.34%
Run 4: Report of Muses

DecisionTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 18:10:54  
End at: 2019-08-27 18:11:24  
Local clock offset: -0.353 ms  
Remote clock offset: -0.203 ms  

# Below is generated by plot.py at 2019-08-27 19:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 584.65 Mbit/s  
95th percentile per-packet one-way delay: 59.195 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 584.65 Mbit/s  
95th percentile per-packet one-way delay: 59.195 ms  
Loss rate: 0.26%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeHO

Start at: 2019-08-27 16:06:43
End at: 2019-08-27 16:07:13
Local clock offset: -0.194 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-08-27 19:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 311.49 Mbit/s
95th percentile per-packet one-way delay: 113.471 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 311.49 Mbit/s
95th percentile per-packet one-way delay: 113.471 ms
Loss rate: 0.04%
Run 1: Report of Muses DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 309.74 Mbit/s)
- Flow 1 egress (mean 311.49 Mbit/s)

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

- Flow 1 (95th percentile 113.47 ms)
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 16:40:58
End at: 2019-08-27 16:41:28
Local clock offset: 0.149 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-08-27 19:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.89 Mbit/s
95th percentile per-packet one-way delay: 118.358 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 290.89 Mbit/s
95th percentile per-packet one-way delay: 118.358 ms
Loss rate: 1.00%
Run 2: Report of Muses_DecisionTreeH0 — Data Link

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

![Graph 2: Per Packet Delay](image2)
Run 3: Statistics of Muses\_DecisionTreeHO

Start at: 2019-08-27 17:15:04
End at: 2019-08-27 17:15:34
Local clock offset: -0.242 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-08-27 19:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.45 Mbit/s
95th percentile per-packet one-way delay: 113.803 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 328.45 Mbit/s
95th percentile per-packet one-way delay: 113.803 ms
Loss rate: 0.80%
Run 3: Report of Muses_DecisionTreeH0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 17:48:55  
End at: 2019-08-27 17:49:25  
Local clock offset: -0.376 ms  
Remote clock offset: -0.106 ms  

# Below is generated by plot.py at 2019-08-27 19:46:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 384.64 Mbit/s  
95th percentile per-packet one-way delay: 105.400 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 384.64 Mbit/s  
95th percentile per-packet one-way delay: 105.400 ms  
Loss rate: 0.03%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing throughput and packet delay over time for two flows.

Flow 1 ingress (mean 382.85 Mbit/s) and Flow 1 egress (mean 384.64 Mbit/s).]
Run 5: Statistics of Muses\_DecisionTreeHO

Start at: 2019-08-27 18:23:24
End at: 2019-08-27 18:23:54
Local clock offset: -0.43 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-08-27 19:46:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.64 Mbit/s
95th percentile per-packet one-way delay: 110.243 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 312.64 Mbit/s
95th percentile per-packet one-way delay: 110.243 ms
Loss rate: 0.83%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

```
Flow 1 ingress (mean 314.25 Mbit/s)  Flow 1 egress (mean 312.64 Mbit/s)
```

```
Flow 1 (95th percentile 110.24 ms)
```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 15:50:01
End at: 2019-08-27 15:50:31
Local clock offset: 0.187 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-08-27 19:48:16
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 502.59 Mbit/s
  95th percentile per-packet one-way delay: 71.885 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 502.59 Mbit/s
  95th percentile per-packet one-way delay: 71.885 ms
  Loss rate: 0.41%
Run 1: Report of Muses

DecisionTreeR0 — Data Link

Throughput (kbps)

Time (s)

Flow 1 ingress (mean 502.97 Mbit/s)  Flow 1 egress (mean 502.59 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 71.89 ms)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 16:24:06
End at: 2019-08-27 16:24:36
Local clock offset: -0.209 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-08-27 19:49:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.78 Mbit/s
95th percentile per-packet one-way delay: 68.937 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 533.78 Mbit/s
95th percentile per-packet one-way delay: 68.937 ms
Loss rate: 0.33%
Run 3: Statistics of Muses\_DecisionTreeRO

Start at: 2019-08-27 16:58:19
End at: 2019-08-27 16:58:49
Local clock offset: -0.196 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-08-27 19:49:49
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 540.58 Mbit/s
  95th percentile per-packet one-way delay: 73.003 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 540.58 Mbit/s
  95th percentile per-packet one-way delay: 73.003 ms
  Loss rate: 0.34%
Run 3: Report of Muses

Decision Tree R0 — Data Link

![Graph of Throughput](image1)

```
Throughput (Mbps)
```

![Graph of Packet Delay](image2)

```
Time (s)
```

Flow 1 ingress (mean 540.69 Mbps)  
Flow 1 egress (mean 540.58 Mbps)

Flow 1 (95th percentile 73.00 ms)
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 17:32:24
End at: 2019-08-27 17:32:54
Local clock offset: -0.326 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-08-27 19:50:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.92 Mbit/s
95th percentile per-packet one-way delay: 76.266 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 546.92 Mbit/s
95th percentile per-packet one-way delay: 76.266 ms
Loss rate: 0.38%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

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

- Flow 1 ingress (mean 547.20 Mbit/s)
- Flow 1 egress (mean 546.92 Mbit/s)

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

- Flow 1 (95th percentile 76.27 ms)
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 18:06:32  
End at: 2019-08-27 18:07:02  
Local clock offset: -0.357 ms  
Remote clock offset: -0.185 ms  

# Below is generated by plot.py at 2019-08-27 19:51:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 555.78 Mbit/s  
95th percentile per-packet one-way delay: 60.773 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 555.78 Mbit/s  
95th percentile per-packet one-way delay: 60.773 ms  
Loss rate: 0.32%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 15:37:06
End at: 2019-08-27 15:37:36
Local clock offset: -0.226 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-08-27 19:55:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.72 Mbit/s
95th percentile per-packet one-way delay: 116.955 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 403.72 Mbit/s
95th percentile per-packet one-way delay: 116.955 ms
Loss rate: 0.62%
Run 1: Report of PCC-Allegro — Data Link

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

- Throughput (Mbps):
  - Flow 1 ingress (mean 404.95 Mbit/s)
  - Flow 1 egress (mean 403.72 Mbit/s)

- Per-packet one-way delay (ms):
  - Flow 1 (95th percentile 116.95 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 16:11:15
End at: 2019-08-27 16:11:45
Local clock offset: -0.208 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-08-27 19:55:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.94 Mbit/s
95th percentile per-packet one-way delay: 139.700 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 354.94 Mbit/s
95th percentile per-packet one-way delay: 139.700 ms
Loss rate: 0.60%
Run 2: Report of PCC-Allegro — Data Link

[Graph showing throughput and per-packet delay over time with labels for ingress and egress flows.]
Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 16:45:29
End at: 2019-08-27 16:45:59
Local clock offset: -0.218 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-08-27 19:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 418.94 Mbit/s
95th percentile per-packet one-way delay: 164.209 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 418.94 Mbit/s
95th percentile per-packet one-way delay: 164.209 ms
Loss rate: 3.04%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 430.69 Mbit/s)
- Flow 1 egress (mean 418.94 Mbit/s)

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

- Flow 1 (95th percentile 164.21 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 17:19:36
End at: 2019-08-27 17:20:06
Local clock offset: -0.286 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-08-27 19:59:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.42 Mbit/s
95th percentile per-packet one-way delay: 162.366 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 371.42 Mbit/s
95th percentile per-packet one-way delay: 162.366 ms
Loss rate: 0.89%
Run 4: Report of PCC-Allegro — Data Link

![Graph of throughput over time](image1)

- **Flow 1 ingress (mean 373.55 Mbit/s)**
- **Flow 1 egress (mean 371.42 Mbit/s)**

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

Flow 1 (95th percentile 162.37 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 17:53:30
End at: 2019-08-27 17:54:00
Local clock offset: -0.36 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-08-27 20:02:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 424.16 Mbit/s
95th percentile per-packet one-way delay: 171.963 ms
Loss rate: 7.81%
-- Flow 1:
Average throughput: 424.16 Mbit/s
95th percentile per-packet one-way delay: 171.963 ms
Loss rate: 7.81%
Run 5: Report of PCC-Allegro — Data Link

![Graph showing network throughput and latency over time.]

- **Flow 1 ingress (mean 458.60 Mbps)**
- **Flow 1 egress (mean 424.16 Mbps)**

![Graph showing packet delay over time.]

- **Flow 1 (95th percentile 171.96 ms)**
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 15:46:56
End at: 2019-08-27 15:47:26
Local clock offset: -0.202 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-08-27 20:02:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.61 Mbit/s
95th percentile per-packet one-way delay: 156.446 ms
Loss rate: 5.18%
-- Flow 1:
Average throughput: 330.61 Mbit/s
95th percentile per-packet one-way delay: 156.446 ms
Loss rate: 5.18%
Run 1: Report of PCC-Expr — Data Link

![GraphNode](image134x446.png)

![GraphNode](image134x225.png)
Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 16:21:03
End at: 2019-08-27 16:21:33
Local clock offset: -0.188 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-08-27 20:02:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.77 Mbit/s
95th percentile per-packet one-way delay: 152.329 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 267.77 Mbit/s
95th percentile per-packet one-way delay: 152.329 ms
Loss rate: 1.05%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 16:55:16
End at: 2019-08-27 16:55:46
Local clock offset: -0.201 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-08-27 20:02:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.06 Mbit/s
95th percentile per-packet one-way delay: 104.107 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 255.06 Mbit/s
95th percentile per-packet one-way delay: 104.107 ms
Loss rate: 0.53%
Run 3: Report of PCC-Expr — Data Link

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

Start at: 2019-08-27 17:29:20
End at: 2019-08-27 17:29:50
Local clock offset: -0.7 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-08-27 20:03:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.75 Mbit/s
95th percentile per-packet one-way delay: 177.627 ms
Loss rate: 4.62%

-- Flow 1:
Average throughput: 306.75 Mbit/s
95th percentile per-packet one-way delay: 177.627 ms
Loss rate: 4.62%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 18:03:27
End at: 2019-08-27 18:03:57
Local clock offset: -0.392 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 307.05 Mbit/s
  95th percentile per-packet one-way delay: 147.081 ms
  Loss rate: 1.63%
-- Flow 1:
  Average throughput: 307.05 Mbit/s
  95th percentile per-packet one-way delay: 147.081 ms
  Loss rate: 1.63%
Run 5: Report of PCC-Expr — Data Link

![Graph: Throughput vs Time]

- Flow 1 ingress (mean 311.13 Mbit/s)
- Flow 1 egress (mean 307.05 Mbit/s)

![Graph: Packet Delay vs Time]

- Flow 1 (95th percentile 147.08 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 15:41:39
End at: 2019-08-27 15:42:09
Local clock offset: -0.242 ms
Remote clock offset: -0.024 ms
Run 1: Report of QUIC Cubic — Data Link

Graph 1: Throughput vs Time

Graph 2: Packet One-Way Delay vs Time
Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 16:15:48
End at: 2019-08-27 16:16:18
Local clock offset: ~0.25 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 81.07 Mbit/s
  95th percentile per-packet one-way delay: 48.649 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 81.07 Mbit/s
  95th percentile per-packet one-way delay: 48.649 ms
  Loss rate: 0.39%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 16:49:59
End at: 2019-08-27 16:50:29
Local clock offset: -0.204 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 47.316 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 76.30 Mbit/s
95th percentile per-packet one-way delay: 47.316 ms
Loss rate: 0.45%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 17:24:08
End at: 2019-08-27 17:24:38
Local clock offset: -0.268 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 47.311 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 47.311 ms
Loss rate: 0.40%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 17:58:07
End at: 2019-08-27 17:58:37
Local clock offset: -0.377 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 47.290 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 47.290 ms
Loss rate: 0.45%
Run 5: Report of QUIC Cubic — Data Link

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

Flow 1 ingress (mean 75.84 Mbit/s)  Flow 1 egress (mean 75.75 Mbit/s)

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

Flow 1 (95th percentile 47.29 ms)
Run 1: Statistics of SCReAM

Start at: 2019-08-27 15:59:49
End at: 2019-08-27 16:00:19
Local clock offset: -0.159 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.617 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.617 ms
Loss rate: 0.25%
Run 1: Report of SCReAM — Data Link

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

![Graph 2: One-Way Delay vs Time](image2)
Run 2: Statistics of SCReAM

Start at: 2019-08-27 16:34:03
End at: 2019-08-27 16:34:33
Local clock offset: -0.207 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.005 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.005 ms
Loss rate: 0.39%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2019-08-27 17:08:05
End at: 2019-08-27 17:08:35
Local clock offset: -0.259 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.769 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.769 ms
Loss rate: 0.38%
Run 3: Report of SCReAM — Data Link

Graph 1: Throughput (Mbps) vs. Time (s)
- Flow 1 ingress (mean 0.22 Mbps)
- Flow 1 egress (mean 0.22 Mbps)

Graph 2: Per packet one way delay (ms) vs. Time (s)
- Flow 1 (95th percentile 46.77 ms)
Run 4: Statistics of SCReAM

Start at: 2019-08-27 17:42:10
End at: 2019-08-27 17:42:40
Local clock offset: -0.319 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.553 ms
  Loss rate: 0.39%
  -- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.553 ms
  Loss rate: 0.39%
Run 4: Report of SCReAM — Data Link

![Throughput graph](image1)

![Delay graph](image2)
Run 5: Statistics of SCReAM

Start at: 2019-08-27 18:16:28
End at: 2019-08-27 18:16:58
Local clock offset: -0.387 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.505 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.505 ms
Loss rate: 0.26%
Run 5: Report of SCReAM — Data Link

![Graph showing time vs. throughput and time vs. packet delay](image-url)
Run 1: Statistics of Sprout

End at: 2019-08-27 15:56:20
Local clock offset: -0.199 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 9.64 Mbit/s
  95th percentile per-packet one-way delay: 47.684 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 9.64 Mbit/s
  95th percentile per-packet one-way delay: 47.684 ms
  Loss rate: 0.41%
Run 1: Report of Sprout — Data Link

![Graph showing throughput over time](image1)

- **Flow 1 ingress (mean 9.65 Mbit/s)**
- **Flow 1 egress (mean 9.64 Mbit/s)**

![Graph showing round-trip delay over time](image2)

- **Flow 1 95th percentile 47.68 ms**
Run 2: Statistics of Sprout

Start at: 2019-08-27 16:30:01
End at: 2019-08-27 16:30:31
Local clock offset: -0.175 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 47.727 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 47.727 ms
Loss rate: 0.35%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2019-08-27 17:04:11
End at: 2019-08-27 17:04:41
Local clock offset: -0.277 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 47.542 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 47.542 ms
Loss rate: 0.36%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2019-08-27 17:38:16
End at: 2019-08-27 17:38:46
Local clock offset: -0.355 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 46.834 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 46.834 ms
Loss rate: 0.33%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2019-08-27 18:12:27
End at: 2019-08-27 18:12:57
Local clock offset: -0.391 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-08-27 20:03:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 47.625 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 47.625 ms
Loss rate: 0.34%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 15:44:20
End at: 2019-08-27 15:44:50
Local clock offset: -0.188 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-08-27 20:06:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.83 Mbit/s
95th percentile per-packet one-way delay: 47.564 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 246.83 Mbit/s
95th percentile per-packet one-way delay: 47.564 ms
Loss rate: 0.32%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 16:18:29
End at: 2019-08-27 16:18:59
Local clock offset: -0.184 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-08-27 20:06:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.34 Mbit/s
95th percentile per-packet one-way delay: 47.425 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 245.34 Mbit/s
95th percentile per-packet one-way delay: 47.425 ms
Loss rate: 0.33%
Run 2: Report of TaoVA-100x — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 245.36 Mbit/s)
- Flow 1 egress (mean 245.34 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 47.42 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 16:52:42
End at: 2019-08-27 16:53:12
Local clock offset: -0.223 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-08-27 20:06:51
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 231.73 Mbit/s
  95th percentile per-packet one-way delay: 48.091 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 231.73 Mbit/s
  95th percentile per-packet one-way delay: 48.091 ms
  Loss rate: 0.33%
Run 3: Report of TaoVA-100x — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 231.75 Mbps)
- Flow 1 egress (mean 231.73 Mbps)

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

- Flow 1 (95th percentile 48.09 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 17:26:46
End at: 2019-08-27 17:27:16
Local clock offset: -0.359 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-08-27 20:06:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.69 Mbit/s
95th percentile per-packet one-way delay: 47.441 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 244.69 Mbit/s
95th percentile per-packet one-way delay: 47.441 ms
Loss rate: 0.31%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 18:00:52
End at: 2019-08-27 18:01:22
Local clock offset: -0.321 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-08-27 20:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.72 Mbit/s
95th percentile per-packet one-way delay: 47.715 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 245.72 Mbit/s
95th percentile per-packet one-way delay: 47.715 ms
Loss rate: 0.33%
Run 5: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 245.74 Mbit/s)  Flow 1 egress (mean 245.72 Mbit/s)

End packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 47.72 ms)
Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 15:56:59
End at: 2019-08-27 15:57:29
Local clock offset: -0.197 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-08-27 20:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.24 Mbit/s
95th percentile per-packet one-way delay: 70.764 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 524.24 Mbit/s
95th percentile per-packet one-way delay: 70.764 ms
Loss rate: 0.36%
Run 1: Report of TCP Vegas — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 524.44 Mbit/s)
- Flow 1 egress (mean 524.24 Mbit/s)

![Delay Graph]

Flow 1 (95th percentile 70.76 ms)

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Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 16:31:09
End at: 2019-08-27 16:31:39
Local clock offset: -0.597 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-08-27 20:12:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.81 Mbit/s
95th percentile per-packet one-way delay: 61.976 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 540.81 Mbit/s
95th percentile per-packet one-way delay: 61.976 ms
Loss rate: 0.34%
Run 2: Report of TCP Vegas — Data Link

**Top Graph:**
- X-axis: Time (s)
- Y-axis: Throughput (kbps)
- Legend:
  - Flow 1 ingress (mean 540.96 Mbit/s)
  - Flow 1 egress (mean 540.81 Mbit/s)

**Bottom Graph:**
- X-axis: Time (s)
- Y-axis: Ping packet round trip delay (ms)
- Legend:
  - Flow 1 (95th percentile 61.98 ms)
Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 17:05:19
End at: 2019-08-27 17:05:49
Local clock offset: -0.253 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-08-27 20:12:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.94 Mbit/s
95th percentile per-packet one-way delay: 49.503 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 307.94 Mbit/s
95th percentile per-packet one-way delay: 49.503 ms
Loss rate: 0.35%
Run 3: Report of TCP Vegas — Data Link

![Graph showing throughput and delay over time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 308.03 Mbps)
  - Flow 1 egress (mean 307.94 Mbps)

- **Delay (ms):**
  - Flow 1 (95th percentile 49.50 ms)
Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 17:39:24
End at: 2019-08-27 17:39:54
Local clock offset: -0.335 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-08-27 20:12:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.14 Mbit/s
95th percentile per-packet one-way delay: 57.336 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 329.14 Mbit/s
95th percentile per-packet one-way delay: 57.336 ms
Loss rate: 0.26%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 18:13:35
End at: 2019-08-27 18:14:05
Local clock offset: -0.431 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-08-27 20:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.26 Mbit/s
95th percentile per-packet one-way delay: 72.946 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 497.26 Mbit/s
95th percentile per-packet one-way delay: 72.946 ms
Loss rate: 0.19%
Run 5: Report of TCP Vegas — Data Link

[Graph showing throughput over time]

[Graph showing per packet one way delay over time]
Run 1: Statistics of Verus

Start at: 2019-08-27 16:05:21
End at: 2019-08-27 16:05:51
Local clock offset: -0.15 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-08-27 20:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.42 Mbit/s
95th percentile per-packet one-way delay: 80.814 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 166.42 Mbit/s
95th percentile per-packet one-way delay: 80.814 ms
Loss rate: 0.10%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2019-08-27 16:39:33
End at: 2019-08-27 16:40:03
Local clock offset: -0.217 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2019-08-27 20:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 178.857 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 178.857 ms
Loss rate: 1.84%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2019-08-27 17:13:40
End at: 2019-08-27 17:14:10
Local clock offset: -0.281 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-08-27 20:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.98 Mbit/s
95th percentile per-packet one-way delay: 145.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.98 Mbit/s
95th percentile per-packet one-way delay: 145.011 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

![Graph of throughput and delay over time for Flow 1 ingress (mean 190.27 Mbit/s) and Flow 1 egress (mean 189.98 Mbit/s).]
Run 4: Statistics of Verus

Start at: 2019-08-27 17:47:37
End at: 2019-08-27 17:48:07
Local clock offset: -0.317 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-08-27 20:14:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.16 Mbit/s
95th percentile per-packet one-way delay: 59.615 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 121.16 Mbit/s
95th percentile per-packet one-way delay: 59.615 ms
Loss rate: 0.01%
Run 4: Report of Verus — Data Link

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

- Flow 1 ingress (mean 120.78 Mbps)
- Flow 1 egress (mean 121.16 Mbps)

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

- Flow 1 (95th percentile 59.62 ms)
Run 5: Statistics of Verus

Start at: 2019-08-27 18:22:01
End at: 2019-08-27 18:22:31
Local clock offset: -0.387 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-08-27 20:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.64 Mbit/s
95th percentile per-packet one-way delay: 141.042 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 192.64 Mbit/s
95th percentile per-packet one-way delay: 141.042 ms
Loss rate: 0.87%
Run 5: Report of Verus — Data Link

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

- Flow 1 ingress (mean 193.71 Mbps)
- Flow 1 egress (mean 192.64 Mbps)

![Graph 2: Packet Delays over Time (ms)]

- Flow 1 (95th percentile 141.64 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 15:58:29
End at: 2019-08-27 15:58:59
Local clock offset: 0.161 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-08-27 20:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.08 Mbit/s
95th percentile per-packet one-way delay: 59.700 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 185.08 Mbit/s
95th percentile per-packet one-way delay: 59.700 ms
Loss rate: 0.60%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 16:32:41
End at: 2019-08-27 16:33:11
Local clock offset: -0.198 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-08-27 20:15:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.30 Mbit/s
95th percentile per-packet one-way delay: 66.923 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 232.30 Mbit/s
95th percentile per-packet one-way delay: 66.923 ms
Loss rate: 0.59%
Run 2: Report of PCC-Vivace — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 232.93 Mbps)
  - Flow 1 egress (mean 232.30 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 66.92 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 17:06:40
End at: 2019-08-27 17:07:10
Local clock offset: -0.223 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-08-27 20:15:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.79 Mbit/s
95th percentile per-packet one-way delay: 56.116 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 288.79 Mbit/s
95th percentile per-packet one-way delay: 56.116 ms
Loss rate: 0.40%
Run 3: Report of PCC-Vivace — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)

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Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 17:40:45
End at: 2019-08-27 17:41:15
Local clock offset: -0.336 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-08-27 20:15:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.63 Mbit/s
95th percentile per-packet one-way delay: 49.986 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 280.63 Mbit/s
95th percentile per-packet one-way delay: 49.986 ms
Loss rate: 0.40%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 18:15:04
End at: 2019-08-27 18:15:34
Local clock offset: -0.388 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-08-27 20:15:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.95 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 256.95 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.38%
Run 5: Report of PCC-Vivace — Data Link

![Graph of throughput and latency over time]

- **Flow 1 ingress (mean 257.11 Mbit/s)**
- **Flow 1 egress (mean 256.95 Mbit/s)**

- **Flow 1 (95th percentile 63.67 ms)**
Run 1: Statistics of WebRTC media

Start at: 2019-08-27 15:45:48
End at: 2019-08-27 15:46:19
Local clock offset: -0.152 ms
Remote clock offset: -0.053 ms
Run 1: Report of WebRTC media — Data Link

Graph 1: Throughput (Mbps)

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

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Run 2: Statistics of WebRTC media

Start at: 2019-08-27 16:19:56
End at: 2019-08-27 16:20:26
Local clock offset: 0.113 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-08-27 20:15:39
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 49.456 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 49.456 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2019-08-27 16:54:09
End at: 2019-08-27 16:54:39
Local clock offset: -0.243 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-08-27 20:15:39
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 48.932 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 48.932 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

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

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 48.93 ms)
Run 4: Statistics of WebRTC media

Start at: 2019-08-27 17:28:13
End at: 2019-08-27 17:28:43
Local clock offset: -0.306 ms
Remote clock offset: 0.018 ms
Run 4: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 0.06 Mbps)**
- **Flow 1 egress (mean 0.06 Mbps)**

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

- **Flow 1 (95th percentile 50.49 ms)**
Run 5: Statistics of WebRTC media

Start at: 2019-08-27 18:02:20
End at: 2019-08-27 18:02:50
Local clock offset: -0.31 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-08-27 20:15:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.708 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

- Throughput: Flow 1 ingress (mean 0.05 Mbit/s) and Flow 1 egress (mean 0.05 Mbit/s)
- Packet delay: Flow 1 (95th percentile 47.71 ms)