Pantheon Report

Data path: GCE Iowa Ethernet (remote) → GCE London Ethernet (local).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against time.google.com and have been applied
to correct the timestamps in logs.

Git summary:
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a9299986ea5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7c3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464db39
third_party/pcc @ 1af3956fa0d66d18b623091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ec978f3cffe
third_party/scream-reproduce @ f099118d1421aa313b11ff1964974e1da3dbb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c6a266149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d6e4735770d143af1fa2851
test from GCE Iowa to GCE London, 10 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>10</td>
<td>220.94</td>
<td>57.39</td>
<td>0.36</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>121.72</td>
<td>52.26</td>
<td>0.36</td>
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<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>165.72</td>
<td>58.50</td>
<td>0.37</td>
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<tr>
<td>FillP</td>
<td>10</td>
<td>608.62</td>
<td>240.96</td>
<td>1.21</td>
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<td>Indigo</td>
<td>9</td>
<td>180.34</td>
<td>50.93</td>
<td>0.37</td>
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<tr>
<td>LEDBAT</td>
<td>10</td>
<td>33.67</td>
<td>52.09</td>
<td>0.68</td>
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<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>344.04</td>
<td>130.10</td>
<td>1.72</td>
</tr>
<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>219.53</td>
<td>65.20</td>
<td>0.57</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>9</td>
<td>69.69</td>
<td>50.56</td>
<td>0.40</td>
</tr>
<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>50.74</td>
<td>0.31</td>
</tr>
<tr>
<td>Sprout</td>
<td>10</td>
<td>6.77</td>
<td>51.19</td>
<td>0.35</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>192.66</td>
<td>51.07</td>
<td>0.40</td>
</tr>
<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>92.99</td>
<td>52.13</td>
<td>0.32</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>225.79</td>
<td>110.09</td>
<td>0.55</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>314.25</td>
<td>51.94</td>
<td>0.41</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.92</td>
<td>50.82</td>
<td>0.38</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

End at: 2018-06-20 16:56:28
Local clock offset: -0.007 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.66 Mbit/s
95th percentile per-packet one-way delay: 52.389 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 224.66 Mbit/s
95th percentile per-packet one-way delay: 52.389 ms
Loss rate: 0.38%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-06-20 17:15:53
End at: 2018-06-20 17:16:23
Local clock offset: 0.211 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 56.521 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 56.521 ms
Loss rate: 0.36%
Run 2: Report of TCP BBR — Data Link

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

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[Graph showing per-packet end-to-end delay for Flow 1]
Run 3: Statistics of TCP BBR

Start at: 2018-06-20 17:36:01
End at: 2018-06-20 17:36:31
Local clock offset: 0.07 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.52 Mbit/s
95th percentile per-packet one-way delay: 57.144 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 218.52 Mbit/s
95th percentile per-packet one-way delay: 57.144 ms
Loss rate: 0.35%
Run 3: Report of TCP BBR — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 218.54 Mbit/s)  Flow 1 egress (mean 218.52 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 57.14 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-06-20 17:56:02  
End at: 2018-06-20 17:56:32  
Local clock offset: 0.031 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.25 Mbit/s
95th percentile per-packet one-way delay: 55.749 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 221.25 Mbit/s
95th percentile per-packet one-way delay: 55.749 ms
Loss rate: 0.34%
Run 4: Report of TCP BBR — Data Link

![Throughput Graph]

![Packet Loss Graph]
Run 5: Statistics of TCP BBR

Start at: 2018-06-20 18:16:13
End at: 2018-06-20 18:16:43
Local clock offset: -0.005 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.74 Mbit/s
95th percentile per-packet one-way delay: 52.980 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 219.74 Mbit/s
95th percentile per-packet one-way delay: 52.980 ms
Loss rate: 0.36%
Run 5: Report of TCP BBR — Data Link

![Graph showing TCP BBR performance metrics]

- Flow 1 ingress (mean 219.76 Mbit/s)
- Flow 1 egress (mean 219.74 Mbit/s)

![Graph showing packet inter-packet delay]

- Flow 1 (95th percentile 52.98 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-06-20 18:36:09
End at: 2018-06-20 18:36:39
Local clock offset: 0.032 ms
Remote clock offset: 0.164 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 223.74 Mbit/s
  95th percentile per-packet one-way delay: 60.987 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 223.74 Mbit/s
  95th percentile per-packet one-way delay: 60.987 ms
  Loss rate: 0.37%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-06-20 18:56:07
End at: 2018-06-20 18:56:37
Local clock offset: 0.007 ms
Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.55 Mbit/s
95th percentile per-packet one-way delay: 60.778 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 218.55 Mbit/s
95th percentile per-packet one-way delay: 60.778 ms
Loss rate: 0.35%
Run 7: Report of TCP BBR — Data Link

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

![Graph 2: Per-packet one way delay (ms)](image2)
Run 8: Statistics of TCP BBR

Start at: 2018-06-20 19:16:01
End at: 2018-06-20 19:16:31
Local clock offset: -0.327 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-06-20 20:12:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.84 Mbit/s
95th percentile per-packet one-way delay: 57.829 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 223.84 Mbit/s
95th percentile per-packet one-way delay: 57.829 ms
Loss rate: 0.37%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-06-20 19:35:57
End at: 2018-06-20 19:36:27
Local clock offset: 0.076 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-20 20:16:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.53 Mbit/s
95th percentile per-packet one-way delay: 59.085 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 218.53 Mbit/s
95th percentile per-packet one-way delay: 59.085 ms
Loss rate: 0.37%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

End at: 2018-06-20 19:56:27
Local clock offset: -0.001 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-20 20:16:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 60.403 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 60.403 ms
Loss rate: 0.36%
Run 10: Report of TCP BBR — Data Link

Graph 1: Throughput (Mbps) over time (s)
- Flow 1 ingress (mean 219.93 Mbps)
- Flow 1 egress (mean 219.89 Mbps)

Graph 2: Packet one-way delay (ms) over time (s)
- Flow 1 (95th percentile 60.40 ms)
Run 1: Statistics of Copa

Start at: 2018-06-20 16:40:37
End at: 2018-06-20 16:41:07
Local clock offset: 0.138 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-20 20:16:51
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 127.06 Mbit/s
  95th percentile per-packet one-way delay: 53.606 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 127.06 Mbit/s
  95th percentile per-packet one-way delay: 53.606 ms
  Loss rate: 0.35%
Run 1: Report of Copa — Data Link

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

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

Start at: 2018-06-20 17:00:39
End at: 2018-06-20 17:01:09
Local clock offset: -0.014 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-20 20:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.35 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 141.35 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.24%
Run 2: Report of Copa — Data Link

![Graph of Throughput and Per-Packet End-End Delay over Time]

- **Flow 1 ingress (mean 141.21 Mbit/s)**
- **Flow 1 egress (mean 141.35 Mbit/s)**

![Graph of Flow 1 (95th percentile 53.11 ms) over Time]
Run 3: Statistics of Copa

Start at: 2018-06-20 17:20:32
End at: 2018-06-20 17:21:02
Local clock offset: -0.108 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-20 20:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.49 Mbit/s
95th percentile per-packet one-way delay: 51.713 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 125.49 Mbit/s
95th percentile per-packet one-way delay: 51.713 ms
Loss rate: 0.21%
Run 3: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 125.33 Mbit/s)**
- **Flow 1 egress (mean 125.49 Mbit/s)**

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

- **Flow 1 (90th percentile 51.71 ms)**
Run 4: Statistics of Copa

Start at: 2018-06-20 17:40:41
End at: 2018-06-20 17:41:11
Local clock offset: 0.073 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-20 20:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.93 Mbit/s
95th percentile per-packet one-way delay: 52.483 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 144.93 Mbit/s
95th percentile per-packet one-way delay: 52.483 ms
Loss rate: 0.39%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 145.00 Mbit/s)
- Flow 1 egress (mean 144.93 Mbit/s)
Run 5: Statistics of Copa

Start at: 2018-06-20 18:00:45
End at: 2018-06-20 18:01:15
Local clock offset: 0.068 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-20 20:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.61 Mbit/s
95th percentile per-packet one-way delay: 52.319 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 135.61 Mbit/s
95th percentile per-packet one-way delay: 52.319 ms
Loss rate: 0.29%
Run 5: Report of Copa — Data Link

[Graph showing throughput fluctuations over time for Flow 1 ingress and egress with mean values indicated]

[Graph showing packet inter-arrival delay with a 95th percentile value indicated]
Run 6: Statistics of Copa

Start at: 2018-06-20 18:20:53
End at: 2018-06-20 18:21:23
Local clock offset: -0.037 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-06-20 20:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.35 Mbit/s
95th percentile per-packet one-way delay: 52.583 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 125.35 Mbit/s
95th percentile per-packet one-way delay: 52.583 ms
Loss rate: 0.49%
Run 6: Report of Copa — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 125.54 Mbit/s)
Flow 1 egress (mean 125.35 Mbit/s)

Round-trip one-way delay (ms)

Flow 1 (95th percentile 52.58 ms)
Run 7: Statistics of Copa

Start at: 2018-06-20 18:40:48
End at: 2018-06-20 18:41:18
Local clock offset: 0.047 ms
Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2018-06-20 20:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.52 Mbit/s
95th percentile per-packet one-way delay: 51.563 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 110.52 Mbit/s
95th percentile per-packet one-way delay: 51.563 ms
Loss rate: 0.49%
Run 7: Report of Copa — Data Link

![Graph showing throughput and delay over time for Flow 1 with mean ingress and egress rates of 110.70 and 110.52 Mbps respectively.]
Run 8: Statistics of Copa

Start at: 2018-06-20 19:00:47
End at: 2018-06-20 19:01:17
Local clock offset: -0.018 ms
Remote clock offset: 0.391 ms

# Below is generated by plot.py at 2018-06-20 20:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.04 Mbit/s
95th percentile per-packet one-way delay: 51.178 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 81.04 Mbit/s
95th percentile per-packet one-way delay: 51.178 ms
Loss rate: 0.31%
Run 8: Report of Copa — Data Link
Run 9: Statistics of Copa

Start at: 2018-06-20 19:20:40
End at: 2018-06-20 19:21:10
Local clock offset: -0.357 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-06-20 20:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 51.599 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 51.599 ms
Loss rate: 0.55%
Run 9: Report of Copa — Data Link

 através de um gráfico de linhas que representa a taxa de transferência de dados (Throughput) ao longo do tempo (Time s). As linhas de traço azul representam o tráfego de entrada (Flow 1 ingress) e o tráfego de saída (Flow 1 egress), com médias de 94.76 Mbps e 94.55 Mbps, respectivamente.

O gráfico inferior mostra o tempo (Time s) em X e o desempenho de taxa de dados em Y. O traço azul representa o 95º percentil do tempo de delay (Delay) para o fluxo 1.
Run 10: Statistics of Copa

Start at: 2018-06-20 19:40:37
End at: 2018-06-20 19:41:07
Local clock offset: 0.053 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-06-20 20:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.32 Mbit/s
95th percentile per-packet one-way delay: 52.484 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 131.32 Mbit/s
95th percentile per-packet one-way delay: 52.484 ms
Loss rate: 0.27%
Run 10: Report of Copa — Data Link

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

- Flow 1 ingress (mean 131.24 Mbit/s)
- Flow 1 egress (mean 131.32 Mbit/s)

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

- Flow 1 (95th percentile 52.48 ms)
Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 16:47:08
End at: 2018-06-20 16:47:38
Local clock offset: 0.064 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-20 20:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.17 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 178.17 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 0.25%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 17:07:04
End at: 2018-06-20 17:07:34
Local clock offset: -0.041 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-06-20 20:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 59.901 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 59.901 ms
Loss rate: 0.49%
Run 2: Report of TCP Cubic — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 163.28 Mbit/s)  Flow 1 egress (mean 163.00 Mbit/s)

Per packet one-way delay (ms)

Flow 1 (95th percentile 59.90 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 17:27:00
End at: 2018-06-20 17:27:30
Local clock offset: 0.008 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-20 20:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.63 Mbit/s
95th percentile per-packet one-way delay: 59.296 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 172.63 Mbit/s
95th percentile per-packet one-way delay: 59.296 ms
Loss rate: 0.27%
Run 3: Report of TCP Cubic — Data Link

![Graph of throughput and packet delay over time for TCP Cubic flow 1. The graph shows two lines indicating the ingress and egress throughput, with the ingress line indicating a lower mean throughput compared to the egress line. The packet delay graph shows the spread and variation of packet delays over time.]
Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 17:47:16
End at: 2018-06-20 17:47:46
Local clock offset: 0.093 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2018-06-20 20:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.71 Mbit/s
95th percentile per-packet one-way delay: 59.675 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 156.71 Mbit/s
95th percentile per-packet one-way delay: 59.675 ms
Loss rate: 0.52%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 157.02 Mbit/s)
- Flow 1 egress (mean 156.71 Mbit/s)
- Flow 1 (95th percentile 59.67 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 18:07:15
End at: 2018-06-20 18:07:45
Local clock offset: 0.392 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-20 20:22:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.49 Mbit/s
95th percentile per-packet one-way delay: 59.488 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 171.49 Mbit/s
95th percentile per-packet one-way delay: 59.488 ms
Loss rate: 0.20%
Run 5: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 171.25 Mbit/s)
- Flow 1 egress (mean 171.49 Mbit/s)

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

- Flow 1 (95th percentile 59.49 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 18:27:21
End at: 2018-06-20 18:27:51
Local clock offset: -0.043 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-20 20:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.49 Mbit/s
95th percentile per-packet one-way delay: 58.683 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 155.49 Mbit/s
95th percentile per-packet one-way delay: 58.683 ms
Loss rate: 0.53%
Run 6: Report of TCP Cubic — Data Link

[Graph showing throughput over time with two lines: one for ingress and one for egress.]

[Graph showing packet delivery delay with a single line indicating 95th percentile delay.]
Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 18:47:11
End at: 2018-06-20 18:47:41
Local clock offset: -0.007 ms
Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2018-06-20 20:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.47 Mbit/s
95th percentile per-packet one-way delay: 58.135 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 137.47 Mbit/s
95th percentile per-packet one-way delay: 58.135 ms
Loss rate: 0.27%
Run 7: Report of TCP Cubic — Data Link

![Graph of throughput over time](image1)

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

- Flow 1 ingress (mean 137.38 Mbit/s)
- Flow 1 egress (mean 137.47 Mbit/s)

- Flow 1 (95th percentile 58.13 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 19:07:11
End at: 2018-06-20 19:07:41
Local clock offset: 0.011 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-06-20 20:22:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.63 Mbit/s
95th percentile per-packet one-way delay: 58.070 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 173.63 Mbit/s
95th percentile per-packet one-way delay: 58.070 ms
Loss rate: 0.47%
Run 8: Report of TCP Cubic — Data Link

![Graph of Throughput (Mbps)]

Throughput (Mbps)

0 0 5 10 15 20 25 30
Time (s)

Flow 1 ingress (mean 173.89 Mbit/s)  Flow 1 egress (mean 173.63 Mbit/s)

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

Per-packet one-way delay (ms)

0 0 5 10 15 20 25 30
Time (s)

Flow 1 (95th percentile 58.07 ms)
Run 9: Statistics of TCP Cubic

End at: 2018-06-20 19:27:41
Local clock offset: 0.372 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-20 20:23:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.74 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 213.74 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.37%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 19:47:00
End at: 2018-06-20 19:47:30
Local clock offset: -0.003 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-20 20:23:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.86 Mbit/s
95th percentile per-packet one-way delay: 52.655 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 134.86 Mbit/s
95th percentile per-packet one-way delay: 52.655 ms
Loss rate: 0.37%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

End at: 2018-06-20 16:48:52
Local clock offset: 0.449 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-20 20:34:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 678.97 Mbit/s
95th percentile per-packet one-way delay: 278.252 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 678.97 Mbit/s
95th percentile per-packet one-way delay: 278.252 ms
Loss rate: 2.82%
Run 1: Report of FillP — Data Link

![Graph](image-url)

- Flow 1 ingress (mean 696.25 Mbit/s)
- Flow 1 egress (mean 678.97 Mbit/s)

![Graph](image-url)

- Flow 1 (95th percentile 278.25 ms)
Run 2: Statistics of FillP

Start at: 2018-06-20 17:08:17  
End at: 2018-06-20 17:08:47  
Local clock offset: -0.095 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-06-20 20:34:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.25 Mbit/s  
95th percentile per-packet one-way delay: 250.625 ms  
Loss rate: 1.49%
-- Flow 1:
Average throughput: 565.25 Mbit/s  
95th percentile per-packet one-way delay: 250.625 ms  
Loss rate: 1.49%
Run 2: Report of FillP — Data Link

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

- Flow 1 ingress (mean 571.85 Mbit/s)
- Flow 1 egress (mean 565.25 Mbit/s)

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

- Flow 1 (95th percentile 250.62 ms)
Run 3: Statistics of FillP

Start at: 2018-06-20 17:28:14
End at: 2018-06-20 17:28:44
Local clock offset: -0.039 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-20 20:35:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 681.18 Mbit/s
  95th percentile per-packet one-way delay: 259.492 ms
  Loss rate: 1.93%
-- Flow 1:
  Average throughput: 681.18 Mbit/s
  95th percentile per-packet one-way delay: 259.492 ms
  Loss rate: 1.93%
Run 3: Report of FillP — Data Link

![Graph of throughput and delay over time for Flow 1 with ingress and egress mean throughputs of 692.21 Mbit/s and 681.18 Mbit/s respectively.](image1)

![Graph of per-packet one-way delay over time for Flow 1 with 95th percentile of 259.49 ms.](image2)
Run 4: Statistics of FillP

Start at: 2018-06-20 17:48:29
End at: 2018-06-20 17:48:59
Local clock offset: 0.088 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-20 20:35:53
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 563.61 Mbit/s
  95th percentile per-packet one-way delay: 218.929 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 563.61 Mbit/s
  95th percentile per-packet one-way delay: 218.929 ms
  Loss rate: 0.32%
Run 4: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 563.51 Mbit/s)  Flow 1 egress (mean 563.61 Mbit/s)

Round trip one way delay (ms)

Flow 1 (95th percentile 218.93 ms)
Run 5: Statistics of FillP

Start at: 2018-06-20 18:08:28
End at: 2018-06-20 18:08:58
Local clock offset: 0.025 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 20:36:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 681.29 Mbit/s
95th percentile per-packet one-way delay: 245.349 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 681.29 Mbit/s
95th percentile per-packet one-way delay: 245.349 ms
Loss rate: 1.36%
Run 5: Report of FillP — Data Link

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

- Flow 1 ingress (mean 688.32 Mbps)
- Flow 1 egress (mean 681.29 Mbps)

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

- Flow 1 (95th percentile 245.35 ms)
Run 6: Statistics of FillP

Start at: 2018-06-20 18:28:34
End at: 2018-06-20 18:29:04
Local clock offset: -0.006 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-06-20 20:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 703.58 Mbit/s
95th percentile per-packet one-way delay: 240.294 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 703.58 Mbit/s
95th percentile per-packet one-way delay: 240.294 ms
Loss rate: 0.93%
Run 6: Report of FillP — Data Link

![Graph of Throughput (Mbps) over time]

![Graph of Per-packet one-way delay (ms) over time]

Legend:
- Flow 1 ingress (mean 707.77 Mbit/s)
- Flow 1 egress (mean 703.58 Mbit/s)
- Flow 1 (95th percentile 240.29 ms)
Run 7: Statistics of FillP

Local clock offset: -0.408 ms
Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2018-06-20 20:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 647.45 Mbit/s
95th percentile per-packet one-way delay: 233.252 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 647.45 Mbit/s
95th percentile per-packet one-way delay: 233.252 ms
Loss rate: 1.26%
Run 7: Report of FillP — Data Link

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

- Flow 1 ingress (mean 653.52 Mbit/s)
- Flow 1 egress (mean 647.45 Mbit/s)

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

- Flow 1 (95th percentile 233.25 ms)
Run 8: Statistics of FillP

Start at: 2018-06-20 19:08:24
End at: 2018-06-20 19:08:54
Local clock offset: 0.009 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2018-06-20 20:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.35 Mbit/s
95th percentile per-packet one-way delay: 215.668 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 549.35 Mbit/s
95th percentile per-packet one-way delay: 215.668 ms
Loss rate: 0.49%
Run 8: Report of FillP — Data Link

![Graphs showing throughput and packet delay over time]
Run 9: Statistics of FillP

Start at: 2018-06-20 19:28:26
End at: 2018-06-20 19:28:56
Local clock offset: 0.441 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-20 20:38:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 288.33 Mbit/s
95th percentile per-packet one-way delay: 229.700 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 288.33 Mbit/s
95th percentile per-packet one-way delay: 229.700 ms
Loss rate: 0.09%
Run 9: Report of FillP — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 287.50 Mbps)
- Flow 1 egress (mean 288.33 Mbps)

Packet one-way delay (ms):

- Flow 1 (95th percentile 229.70 ms)
Run 10: Statistics of FillP

End at: 2018-06-20 19:48:41
Local clock offset: -0.035 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.15 Mbit/s
95th percentile per-packet one-way delay: 238.043 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 727.15 Mbit/s
95th percentile per-packet one-way delay: 238.043 ms
Loss rate: 1.37%
Run 10: Report of FillP — Data Link

---

**Graph 1:**

- **X-axis:** Time (s)
- **Y-axis:** Throughput (Mbps)
- **Legend:**
  - Flow 1 ingress (mean 734.77 Mbps)
  - Flow 1 egress (mean 727.15 Mbps)

**Graph 2:**

- **X-axis:** Time (s)
- **Y-axis:** Per-packet one-way delay (ms)
- **Legend:**
  - Flow 1 (95th percentile 238.04 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-20 16:53:45
End at: 2018-06-20 16:54:16
Local clock offset: -0.414 ms
Remote clock offset: -0.07 ms
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2018-06-20 17:13:35
End at: 2018-06-20 17:14:05
Local clock offset: -0.07 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 50.550 ms
Loss rate: 0.38%
Run 3: Statistics of Indigo

Start at: 2018-06-20 17:33:37
End at: 2018-06-20 17:34:07
Local clock offset: 0.052 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.80 Mbit/s
95th percentile per-packet one-way delay: 50.906 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 179.80 Mbit/s
95th percentile per-packet one-way delay: 50.906 ms
Loss rate: 0.34%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-06-20 17:53:38
End at: 2018-06-20 17:54:08
Local clock offset: -0.288 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.12 Mbit/s
95th percentile per-packet one-way delay: 53.226 ms
Loss rate: 0.37%

-- Flow 1:
Average throughput: 188.12 Mbit/s
95th percentile per-packet one-way delay: 53.226 ms
Loss rate: 0.37%
Run 4: Report of Indigo — Data Link

![Graph 1](image1)

**Flow 1 ingress (mean 188.16 Mbit/s)**  
**Flow 1 egress (mean 188.12 Mbit/s)**

![Graph 2](image2)

**Flow 1 (95th percentile 53.23 ms)**
Run 5: Statistics of Indigo

End at: 2018-06-20 18:14:18
Local clock offset: -0.343 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.09 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 199.09 Mbit/s
95th percentile per-packet one-way delay: 50.891 ms
Loss rate: 0.37%
Run 5: Report of Indigo — Data Link
Run 6: Statistics of Indigo

Start at: 2018-06-20 18:33:44
End at: 2018-06-20 18:34:14
Local clock offset: -0.376 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.24 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 186.24 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.35%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-20 18:53:43
End at: 2018-06-20 18:54:13
Local clock offset: 0.035 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.09 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 185.09 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 0.37%
Run 7: Report of Indigo — Data Link

![Graph of Throughput and Delay](image)

- **Throughput** (Mbps):
  - Flow 1 ingress (mean 185.15 Mbps)
  - Flow 1 egress (mean 185.09 Mbps)

- **Delay** (ms):
  - Flow 1 (95th percentile 51.19 ms)
Run 8: Statistics of Indigo

End at: 2018-06-20 19:14:06
Local clock offset: −0.319 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics

-- Total of 1 flow:
Average throughput: 203.65 Mbit/s
95th percentile per-packet one-way delay: 50.671 ms
Loss rate: 0.36%

-- Flow 1:
Average throughput: 203.65 Mbit/s
95th percentile per-packet one-way delay: 50.671 ms
Loss rate: 0.36%
Run 8: Report of Indigo — Data Link

![Graph showing throughput over time](image1)

![Graph showing packet delay over time](image2)
Run 9: Statistics of Indigo

Start at: 2018-06-20 19:33:33
End at: 2018-06-20 19:34:03
Local clock offset: 0.026 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.59 Mbit/s
95th percentile per-packet one-way delay: 51.211 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 195.59 Mbit/s
95th percentile per-packet one-way delay: 51.211 ms
Loss rate: 0.38%
Run 9: Report of Indigo — Data Link

![Graph showing throughput and packet delay over time](image-url)
Run 10: Statistics of Indigo

End at: 2018-06-20 19:54:02
Local clock offset: -0.045 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.81 Mbit/s
95th percentile per-packet one-way delay: 49.443 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 200.81 Mbit/s
95th percentile per-packet one-way delay: 49.443 ms
Loss rate: 0.37%
Run 10: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 200.86 Mbit/s)
- Flow 1 egress (mean 200.81 Mbit/s)

Flow 1 (95th percentile 49.44 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 16:54:51
End at: 2018-06-20 16:55:21
Local clock offset: 0.009 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 34.66 Mbit/s
  95th percentile per-packet one-way delay: 53.946 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 34.66 Mbit/s
  95th percentile per-packet one-way delay: 53.946 ms
  Loss rate: 0.67%
Run 1: Report of LEDBAT — Data Link

![Graph of throughput and packet delay over time](image)
Run 2: Statistics of LEDBAT

Start at: 2018-06-20 17:14:45
End at: 2018-06-20 17:15:15
Local clock offset: -0.496 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 51.796 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 51.796 ms
Loss rate: 0.72%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-06-20 17:34:54
End at: 2018-06-20 17:35:24
Local clock offset: 0.059 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 52.257 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 52.257 ms
Loss rate: 0.66%
Run 3: Report of LEDBAT — Data Link

![Throughput graph]

- **Flow 1 ingress (mean 36.04 Mbit/s)**
- **Flow 1 egress (mean 35.92 Mbit/s)**

![Packet delay graph]

- **Flow 1 (95th percentile 52.26 ms)**
Run 4: Statistics of LEDBAT

Start at: 2018-06-20 17:54:54
End at: 2018-06-20 17:55:24
Local clock offset: 0.065 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.63 Mbit/s
95th percentile per-packet one-way delay: 53.390 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.63 Mbit/s
95th percentile per-packet one-way delay: 53.390 ms
Loss rate: 0.68%
Run 4: Report of LEDBAT — Data Link

![Graph showing network performance metrics over time.]

- **Flow 1 ingress (mean 34.75 Mbit/s)**
- **Flow 1 egress (mean 34.63 Mbit/s)**

![Second graph showing per-packet one-way delay.]

- **Flow 1 (95th percentile 53.39 ms)**
Run 5: Statistics of LEDBAT

Start at: 2018-06-20 18:15:06
End at: 2018-06-20 18:15:36
Local clock offset: 0.018 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 51.640 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 51.640 ms
Loss rate: 0.67%
Run 6: Statistics of LEDBAT

Start at: 2018-06-20 18:35:01
End at: 2018-06-20 18:35:31
Local clock offset: -0.006 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.66%
Run 6: Report of LEDBAT — Data Link

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

![Plot 2: Packet Delay vs Time](image2)
Run 7: Statistics of LEDBAT

Start at: 2018-06-20 18:55:00
End at: 2018-06-20 18:55:30
Local clock offset: -0.002 ms
Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.67%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-06-20 19:14:53
End at: 2018-06-20 19:15:23
Local clock offset: -0.352 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.06 Mbit/s
95th percentile per-packet one-way delay: 51.698 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 35.06 Mbit/s
95th percentile per-packet one-way delay: 51.698 ms
Loss rate: 0.67%
Run 9: Statistics of LEDBAT

Start at: 2018-06-20 19:34:50
End at: 2018-06-20 19:35:20
Local clock offset: 0.064 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 52.059 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 52.059 ms
Loss rate: 0.70%
Run 9: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 26.77 Mbit/s)**
- **Flow 1 egress (mean 26.67 Mbit/s)**

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

- **Flow 1 (95th percentile 52.06 ms)**
Run 10: Statistics of LEDBAT

Start at: 2018-06-20 19:54:50
Local clock offset: -0.053 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 52.102 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.00 Mbit/s
95th percentile per-packet one-way delay: 52.102 ms
Loss rate: 0.68%
Run 10: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 34.12 Mbit/s)
- Flow 1 egress (mean 34.00 Mbit/s)

- Flow 1 95th percentile 52.10 ms
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 16:45:50
End at: 2018-06-20 16:46:20
Local clock offset: 0.497 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.80 Mbit/s
95th percentile per-packet one-way delay: 123.065 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 343.80 Mbit/s
95th percentile per-packet one-way delay: 123.065 ms
Loss rate: 0.35%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 17:05:48
End at: 2018-06-20 17:06:18
Local clock offset: -0.081 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.05 Mbit/s
95th percentile per-packet one-way delay: 169.358 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 321.05 Mbit/s
95th percentile per-packet one-way delay: 169.358 ms
Loss rate: 0.40%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 17:25:44
End at: 2018-06-20 17:26:14
Local clock offset: -0.372 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.33 Mbit/s
95th percentile per-packet one-way delay: 66.087 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 329.33 Mbit/s
95th percentile per-packet one-way delay: 66.087 ms
Loss rate: 0.43%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 17:45:59  
End at: 2018-06-20 17:46:29  
Local clock offset: 0.072 ms  
Remote clock offset: -0.01 ms  

# Below is generated by plot.py at 2018-06-20 20:48:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 337.77 Mbit/s  
95th percentile per-packet one-way delay: 95.539 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 337.77 Mbit/s  
95th percentile per-packet one-way delay: 95.539 ms  
Loss rate: 0.41%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 18:05:58
End at: 2018-06-20 18:06:28
Local clock offset: 0.046 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.51 Mbit/s
95th percentile per-packet one-way delay: 205.354 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 338.51 Mbit/s
95th percentile per-packet one-way delay: 205.354 ms
Loss rate: 0.68%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 18:26:03
End at: 2018-06-20 18:26:33
Local clock offset: 0.378 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.07 Mbit/s
95th percentile per-packet one-way delay: 61.210 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 366.07 Mbit/s
95th percentile per-packet one-way delay: 61.210 ms
Loss rate: 0.58%
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 18:45:54
End at: 2018-06-20 18:46:24
Local clock offset: 0.001 ms
Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2018-06-20 20:48:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.84 Mbit/s
95th percentile per-packet one-way delay: 56.924 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 319.84 Mbit/s
95th percentile per-packet one-way delay: 56.924 ms
Loss rate: 0.37%
Run 7: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 319.96 Mbit/s)
- Flow 1 egress (mean 319.84 Mbit/s)

![Graph of per packet one way delay (ms) over time (s)]

- Flow 1 (95th percentile 56.92 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 19:05:54
End at: 2018-06-20 19:06:24
Local clock offset: 0.002 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-06-20 20:51:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 318.97 Mbit/s
95th percentile per-packet one-way delay: 207.832 ms
Loss rate: 6.13%
-- Flow 1:
Average throughput: 318.97 Mbit/s
95th percentile per-packet one-way delay: 207.832 ms
Loss rate: 6.13%
Run 8: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 338.67 Mbit/s)  Flow 1 egress (mean 318.97 Mbit/s)

Packet one way delay (ms)

Flow 1 (95th percentile 207.83 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 19:25:50
End at: 2018-06-20 19:26:20
Local clock offset: 0.063 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-20 20:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.21 Mbit/s
95th percentile per-packet one-way delay: 203.033 ms
Loss rate: 6.94%
-- Flow 1:
Average throughput: 438.21 Mbit/s
95th percentile per-packet one-way delay: 203.033 ms
Loss rate: 6.94%
Run 9: Report of PCC-Allegro — Data Link

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

Flow 1 ingress (mean 469.30 Mbit/s)  Flow 1 egress (mean 438.21 Mbit/s)

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

Flow 1 (95th percentile 203.03 ms)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 19:45:43
Local clock offset: 0.029 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-20 20:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.88 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 326.88 Mbit/s
95th percentile per-packet one-way delay: 112.550 ms
Loss rate: 0.91%
Run 10: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 326.76 Mbps)
- Flow 1 egress (mean 326.88 Mbps)

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

- Flow 1 (95th percentile 112.55 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 16:41:53
End at: 2018-06-20 16:42:23
Local clock offset: 0.506 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-20 20:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.09 Mbit/s
95th percentile per-packet one-way delay: 51.382 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 204.09 Mbit/s
95th percentile per-packet one-way delay: 51.382 ms
Loss rate: 0.41%
Run 1: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 204.21 Mbit/s)**
- **Flow 1 egress (mean 204.09 Mbit/s)**

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

- **Flow 1 (95th percentile 51.38 ms)**
Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 17:01:56
End at: 2018-06-20 17:02:26
Local clock offset: -0.035 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-20 20:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.02 Mbit/s
95th percentile per-packet one-way delay: 51.267 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 201.02 Mbit/s
95th percentile per-packet one-way delay: 51.267 ms
Loss rate: 0.40%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 17:21:48
End at: 2018-06-20 17:22:18
Local clock offset: -0.038 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-20 20:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.08 Mbit/s
95th percentile per-packet one-way delay: 52.828 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 215.08 Mbit/s
95th percentile per-packet one-way delay: 52.828 ms
Loss rate: 0.34%
Run 3: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 215.08 Mbit/s)
- Flow 1 egress (mean 215.08 Mbit/s)

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

- Flow 1 (95th percentile 52.83 ms)
Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 17:41:59
End at: 2018-06-20 17:42:29
Local clock offset: 0.091 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-20 20:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.26 Mbit/s
95th percentile per-packet one-way delay: 117.793 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 261.26 Mbit/s
95th percentile per-packet one-way delay: 117.793 ms
Loss rate: 0.41%
Run 4: Report of PCC-Expr — Data Link

![Graph of throughput and delay over time]

- **Flow 1 ingress (mean 261.44 Mbit/s)**
- **Flow 1 egress (mean 261.26 Mbit/s)**

- **Flow 1 (95th percentile 117.79 ms)**
Run 5: Statistics of PCC-Expr

Start at: 2018-06-20 18:02:01
End at: 2018-06-20 18:02:31
Local clock offset: 0.015 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-20 20:56:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 53.323 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 53.323 ms
Loss rate: 0.36%
Run 5: Report of PCC-Expr — Data Link
Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 18:22:09
Local clock offset: 0.044 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-20 20:57:38
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 190.67 Mbit/s
  95th percentile per-packet one-way delay: 50.695 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 190.67 Mbit/s
  95th percentile per-packet one-way delay: 50.695 ms
  Loss rate: 0.35%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 18:42:03
End at: 2018-06-20 18:42:33
Local clock offset: 0.026 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2018-06-20 20:57:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.85 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 165.85 Mbit/s
95th percentile per-packet one-way delay: 51.158 ms
Loss rate: 0.30%
Run 7: Report of PCC-Expr — Data Link

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

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

- Flow 1 ingress (mean 165.79 Mbit/s)
- Flow 1 egress (mean 165.85 Mbit/s)

*Flow 1 (95th percentile 51.16 ms)*
Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 19:01:59
End at: 2018-06-20 19:02:29
Local clock offset: -0.058 ms
Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2018-06-20 21:00:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.43 Mbit/s
95th percentile per-packet one-way delay: 108.655 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 220.43 Mbit/s
95th percentile per-packet one-way delay: 108.655 ms
Loss rate: 2.26%
Run 8: Report of PCC-Expr — Data Link

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

![Graph 2: Packet Delay vs Time (ms)]
Run 9: Statistics of PCC-Expr

Local clock offset: 0.469 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.12 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 293.12 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.42%
Run 9: Report of PCC-Expr — Data Link

![Throughput Chart]

- Flow 1 ingress (mean 293.37 Mb/s)
- Flow 1 egress (mean 293.12 Mb/s)

![Packet Delay Chart]

- Flow 1 (95th percentile 64.06 ms)
Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 19:41:53
End at: 2018-06-20 19:42:23
Local clock offset: 0.006 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.11 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 204.11 Mbit/s
95th percentile per-packet one-way delay: 50.855 ms
Loss rate: 0.41%
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 16:58:20
End at: 2018-06-20 16:58:50
Local clock offset: -0.02 ms
Remote clock offset: -0.043 ms
Run 1: Report of QUIC Cubic — Data Link

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

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

Start at: 2018-06-20 17:18:14  
End at: 2018-06-20 17:18:44  
Local clock offset: -0.113 ms 
Remote clock offset: -0.112 ms 

# Below is generated by plot.py at 2018-06-20 21:03:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.92 Mbit/s  
95th percentile per-packet one-way delay: 50.349 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 68.92 Mbit/s  
95th percentile per-packet one-way delay: 50.349 ms  
Loss rate: 0.38%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 17:38:23
End at: 2018-06-20 17:38:53
Local clock offset: 0.099 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 0.38%
Run 3: Report of QUIC Cubic — Data Link

![Graphs showing throughput and per-packet end-to-end delay over time. The graphs illustrate the network performance under varying conditions.}

- Flow 1 ingress (mean 68.31 Mbit/s)
- Flow 1 egress (mean 68.28 Mbit/s)

Flow 1 (95th percentile 50.43 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 17:58:24
End at: 2018-06-20 17:58:54
Local clock offset: 0.039 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.84 Mbit/s
95th percentile per-packet one-way delay: 50.770 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 68.84 Mbit/s
95th percentile per-packet one-way delay: 50.770 ms
Loss rate: 0.39%
Run 4: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 68.87 Mbps)
- Flow 1 egress (mean 68.84 Mbps)

![Graph 2: RTT (ms) vs Time (s)]

- Flow 1 (95th percentile 50.77 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 18:18:35
End at: 2018-06-20 18:19:05
Local clock offset: -0.03 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 49.766 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 67.58 Mbit/s
95th percentile per-packet one-way delay: 49.766 ms
Loss rate: 0.38%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 18:38:30
End at: 2018-06-20 18:39:00
Local clock offset: 0.352 ms
Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.96 Mbit/s
95th percentile per-packet one-way delay: 51.454 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 70.96 Mbit/s
95th percentile per-packet one-way delay: 51.454 ms
Loss rate: 0.37%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 18:58:29
End at: 2018-06-20 18:58:59
Local clock offset: -0.004 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 68.05 Mbit/s
  95th percentile per-packet one-way delay: 50.881 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 68.05 Mbit/s
  95th percentile per-packet one-way delay: 50.881 ms
  Loss rate: 0.59%
Run 7: Report of QUIC Cubic — Data Link

Graph 1:
- Y-axis: Throughput (Mbps)
- X-axis: Time (s)
- Legend:
  - Flow 1 ingress (mean 68.22 Mbps)
  - Flow 1 egress (mean 68.05 Mbps)

Graph 2:
- Y-axis: Per-packet one-way delay (ms)
- X-axis: Time (s)
- Legend:
  - Flow 1 (95th percentile 50.88 ms)
Run 8: Statistics of QUIC Cubic

End at: 2018-06-20 19:18:53
Local clock offset: -0.33 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.13 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 71.13 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.35%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 19:38:19
End at: 2018-06-20 19:38:49
Local clock offset: -0.325 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.39%
Run 9: Report of QUIC Cubic — Data Link

![Graph showing throughput and delay over time.](image-url)
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 19:58:19
End at: 2018-06-20 19:58:49
Local clock offset: -0.4 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.73 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 71.73 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.37%
Run 10: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet delay over time]

Flow 1 ingress (mean 71.74 Mbit/s)  Flow 1 egress (mean 71.73 Mbit/s)

Flow 1 (95th percentile 50.62 ms)
Run 1: Statistics of SCReAM

Start at: 2018-06-20 16:43:16
End at: 2018-06-20 16:43:46
Local clock offset: 0.161 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.579 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.579 ms
  Loss rate: 0.25%
Run 1: Report of SCReAM — Data Link

![Graph of throughput over time]

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

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Run 2: Statistics of SCReAM

Start at: 2018-06-20 17:03:19
End at: 2018-06-20 17:03:49
Local clock offset: -0.051 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.38%
Run 2: Report of SCReAM — Data Link

[Graph showing throughput (Mbps) over time (s) with two lines representing Flow 1 ingress (mean 0.22 Mbps) and Flow 1 egress (mean 0.22 Mbps).]

[Graph showing packet delay (ms) over time (s) with one line representing Flow 1 (95th percentile 50.94 ms).]
Run 3: Statistics of SCReAM

End at: 2018-06-20 17:23:43
Local clock offset: -0.379 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.26%
Run 3: Report of SCReAM — Data Link

![Graph showing data link performance metrics with two lines representing flow ingress and egress speeds.]

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

![Graph showing packet delay with a marker indicating 95th percentile delay of 50.50 ms.]
Run 4: Statistics of SCReAM

Start at: 2018-06-20 17:43:25
End at: 2018-06-20 17:43:55
Local clock offset: 0.096 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.871 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.871 ms
  Loss rate: 0.26%
Run 4: Report of SCReAM — Data Link

![Data Link Throughput Graph](image)

![Data Link Packet One-Way Delay Graph](image)
Run 5: Statistics of SCReAM

Start at: 2018-06-20 18:03:27
End at: 2018-06-20 18:03:57
Local clock offset: 0.055 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.616 ms
Loss rate: 0.26%
Run 5: Report of SCReAM — Data Link

![Graph showing network performance metrics]

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

- **Packet Round-trip delay (ms)**
  - Flow 1 (95th percentile 50.62 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-20 18:23:31
End at: 2018-06-20 18:24:01
Local clock offset: -0.003 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.404 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.404 ms
Loss rate: 0.39%
Run 6: Report of SCReAM — Data Link

[Graph showing throughput (Mbps) over time with two curves labeled 'Flow 1 ingress (mean 0.22 Mbps)' and 'Flow 1 egress (mean 0.22 Mbps)'.]

[Graph showing per-packet one-way delay (ms) over time with a curve labeled 'Flow 1 (95th percentile 50.40 ms)'.]
Run 7: Statistics of SCReAM

Start at: 2018-06-20 18:43:22
End at: 2018-06-20 18:43:52
Local clock offset: -0.013 ms
Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.837 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.837 ms
Loss rate: 0.38%
Run 7: Report of SCReAM — Data Link

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

![Graph 2: Per Packet One-Way Delay (ms)]
Run 8: Statistics of SCReAM

Start at: 2018-06-20 19:03:22
End at: 2018-06-20 19:03:52
Local clock offset: -0.016 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.26%
Run 8: Report of SCReAM — Data Link

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

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

- **Packet delay (ms):**
  - Flow 1 (95th percentile 51.16 ms)
Run 9: Statistics of SCReAM

End at: 2018-06-20 19:23:51
Local clock offset: 0.044 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.147 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.147 ms
Loss rate: 0.26%
Run 9: Report of SCReAM — Data Link

![Graph 1](Image 134x446 to 477x642)

![Graph 2](Image 134x227 to 477x422)
Run 10: Statistics of SCReAM

Start at: 2018-06-20 19:43:16
End at: 2018-06-20 19:43:46
Local clock offset: 0.409 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.39%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2018-06-20 16:57:14
End at: 2018-06-20 16:57:44
Local clock offset: -0.076 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 50.778 ms
Loss rate: 0.38%
Run 1: Report of Sprout — Data Link

![Graph showing throughput and delay over time.]

**Throughput (Mbit/s)**
- Flow 1 ingress (mean 5.67 Mbit/s)
- Flow 1 egress (mean 5.66 Mbit/s)

**Delay (ms)**
- Flow 1 (95th percentile 50.78 ms)
Run 2: Statistics of Sprout

Start at: 2018-06-20 17:17:08
End at: 2018-06-20 17:17:38
Local clock offset: -0.11 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 50.911 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 50.911 ms
Loss rate: 0.33%
Run 2: Report of Sprout — Data Link

- Throughput (Mbps) vs Time (s)
  - Flow 1 ingress (mean 6.82 Mbit/s)
  - Flow 1 egress (mean 6.82 Mbit/s)

- Packet delay (ms) vs Time (s)
  - Flow 1 (95th percentile 50.91 ms)
Run 3: Statistics of Sprout

Start at: 2018-06-20 17:37:17
End at: 2018-06-20 17:37:47
Local clock offset: 0.108 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 0.06%
Run 3: Report of Sprout — Data Link

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

- **Throughput (Mbit/s):**
  - Flow 1 ingress (mean 5.85 Mbit/s)
  - Flow 1 egress (mean 5.86 Mbit/s)

- **Packet One-Way Delay (ms):**
  - Flow 1 (95th percentile 51.5 ms)
Run 4: Statistics of Sprout

Start at: 2018-06-20 17:57:17
End at: 2018-06-20 17:57:47
Local clock offset: -0.339 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.51%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-06-20 18:17:29
End at: 2018-06-20 18:17:59
Local clock offset: -0.031 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.35%
Run 5: Report of Sprout — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress with mean 7.19 Mbit/s and 99th percentile 51.67 ms.]
Run 6: Statistics of Sprout

Start at: 2018-06-20 18:37:24
End at: 2018-06-20 18:37:54
Local clock offset: 0.011 ms
Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.57%

-- Flow 1:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.57%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-06-20 18:57:23
End at: 2018-06-20 18:57:53
Local clock offset: 0.012 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 0.44%
Run 7: Report of Sprout — Data Link

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

![Graph 2: Packet one-way delay (ms) over time](image)

Flow 1 ingress (mean 7.50 Mbit/s)  
Flow 1 egress (mean 7.49 Mbit/s)

Flow 1 95th percentile 50.29 ms

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Run 8: Statistics of Sprout

Start at: 2018-06-20 19:17:17
End at: 2018-06-20 19:17:47
Local clock offset: 0.072 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 7.37 Mbit/s
  95th percentile per-packet one-way delay: 51.600 ms
  Loss rate: 0.28%
-- Flow 1:
  Average throughput: 7.37 Mbit/s
  95th percentile per-packet one-way delay: 51.600 ms
  Loss rate: 0.28%
Run 8: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 7.38 Mbit/s)
- Flow 1 egress (mean 7.37 Mbit/s)

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

- Flow 1 (95th percentile 51.60 ms)
Run 9: Statistics of Sprout

End at: 2018-06-20 19:37:43
Local clock offset: -0.312 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 6.75 Mbit/s
  95th percentile per-packet one-way delay: 51.429 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 6.75 Mbit/s
  95th percentile per-packet one-way delay: 51.429 ms
  Loss rate: 0.39%
Run 9: Report of Sprout — Data Link

![Graph showing throughput and round-trip delay over time](image-url)
Run 10: Statistics of Sprout

End at: 2018-06-20 19:57:43
Local clock offset: -0.41 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-06-20 21:03:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 51.408 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 51.408 ms
Loss rate: 0.18%
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 16:49:55
End at: 2018-06-20 16:50:25
Local clock offset: 0.053 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-20 21:06:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.19 Mbit/s
95th percentile per-packet one-way delay: 51.167 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 229.19 Mbit/s
95th percentile per-packet one-way delay: 51.167 ms
Loss rate: 0.35%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 17:09:45
End at: 2018-06-20 17:10:15
Local clock offset: -0.136 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-06-20 21:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.49 Mbit/s
95th percentile per-packet one-way delay: 52.214 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 230.49 Mbit/s
95th percentile per-packet one-way delay: 52.214 ms
Loss rate: 0.33%
Run 2: Report of TaoVA-100x — Data Link

![Graph](image1.png)

![Graph](image2.png)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 17:29:47
End at: 2018-06-20 17:30:17
Local clock offset: 0.056 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-20 21:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.99 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 217.99 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.33%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps)

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

Per packet end-to-end delay (ms)

Flow 1 (95th percentile 51.35 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 17:49:57
End at: 2018-06-20 17:50:27
Local clock offset: 0.137 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-20 21:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 140.07 Mbit/s
95th percentile per-packet one-way delay: 51.828 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 140.07 Mbit/s
95th percentile per-packet one-way delay: 51.828 ms
Loss rate: 0.47%
Run 4: Report of TaoVA-100x — Data Link

![Graph of Throughput vs Time with two lines representing Flow 1 ingress and egress Mean values.]
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 18:10:01
End at: 2018-06-20 18:10:31
Local clock offset: -0.012 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-20 21:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 51.250 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 214.13 Mbit/s
95th percentile per-packet one-way delay: 51.250 ms
Loss rate: 0.09%
Run 5: Report of TaoVA-100x — Data Link

[Graph showing throughput and packet loss over time.]
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 18:30:07
End at: 2018-06-20 18:30:37
Local clock offset: -0.387 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-06-20 21:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.96 Mbit/s
95th percentile per-packet one-way delay: 50.398 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 73.96 Mbit/s
95th percentile per-packet one-way delay: 50.398 ms
Loss rate: 1.19%
Run 6: Report of TaoVA-100x — Data Link

![Graph 1: Throughput plot with two lines indicating Flow 1 ingress and egress with mean 74.60 Mbit/s and 73.96 Mbit/s respectively.]

![Graph 2: Per-packet one way delay plot with a single line indicating Flow 1 with 95th percentile 50.40 ms.]
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 18:49:54
End at: 2018-06-20 18:50:24
Local clock offset: 0.002 ms
Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2018-06-20 21:07:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 204.88 Mbit/s
  95th percentile per-packet one-way delay: 50.440 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 204.88 Mbit/s
  95th percentile per-packet one-way delay: 50.440 ms
  Loss rate: 0.15%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 19:09:51
End at: 2018-06-20 19:10:21
Local clock offset: 0.369 ms
Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-06-20 21:09:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.13 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 178.13 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 0.51%
Run 8: Report of TaoVA-100x — Data Link

![Graph showing throughput over time](image1)

- Flow 1 ingress (mean 178.44 Mbit/s)
- Flow 1 egress (mean 178.13 Mbit/s)

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

- Flow 1 (95th percentile 51.36 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 19:29:43
End at: 2018-06-20 19:30:13
Local clock offset: 0.037 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-20 21:10:50
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 223.25 Mbit/s
  95th percentile per-packet one-way delay: 50.833 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 223.25 Mbit/s
  95th percentile per-packet one-way delay: 50.833 ms
  Loss rate: 0.42%
Run 9: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 223.43 Mbps)
- Flow 1 egress (mean 223.25 Mbps)

![Graph of One-Way Delay (ms) vs. Time (s)]

- Flow 1 (95th percentile 50.83 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 19:49:45
End at: 2018-06-20 19:50:15
Local clock offset: 0.033 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.55 Mbit/s
95th percentile per-packet one-way delay: 49.846 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 214.55 Mbit/s
95th percentile per-packet one-way delay: 49.846 ms
Loss rate: 0.20%
Run 10: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 214.25 Mbit/s)
- Flow 1 egress (mean 214.55 Mbit/s)

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

- Flow 1 (95th percentile 49.85 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 16:59:25
End at: 2018-06-20 16:59:55
Local clock offset: -0.058 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.61 Mbit/s
95th percentile per-packet one-way delay: 51.530 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 180.61 Mbit/s
95th percentile per-packet one-way delay: 51.530 ms
Loss rate: 0.17%
Run 1: Report of TCP Vegas — Data Link

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Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 17:19:23
End at: 2018-06-20 17:19:53
Local clock offset: -0.125 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 52.302 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 52.302 ms
Loss rate: 0.39%
Run 2: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps)](image1)
- **Flow 1 ingress (mean 67.43 Mbps)**
- **Flow 1 egress (mean 67.39 Mbps)**

![Graph 2: Per-packet one-way delay (ms)](image2)
- **Flow 1 (95th percentile 52.30 ms)**
Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 17:39:32
End at: 2018-06-20 17:40:02
Local clock offset: 0.067 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 52.225 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 72.51 Mbit/s
95th percentile per-packet one-way delay: 52.225 ms
Loss rate: 0.32%
Run 3: Report of TCP Vegas — Data Link

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Throughput (Mbit/s)

Time (s)

- [Flow 1 ingress (mean 72.50 Mbit/s)]
- [Flow 1 egress (mean 72.51 Mbit/s)]

Per packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 52.23 ms)

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Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 17:59:33
End at: 2018-06-20 18:00:03
Local clock offset: 0.079 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 52.650 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 52.650 ms
Loss rate: 0.33%
Run 4: Report of TCP Vegas — Data Link

![Throughput Graph]

- **Throughput (Mbps)**
- **Time (s)**
- **Flow 1 ingress (mean 151.54 Mbit/s)**
- **Flow 1 egress (mean 151.56 Mbit/s)**

![Per-packet Delay Graph]

- **Per-packet one-way delay (ms)**
- **Time (s)**
- **Flow 1 (95th percentile 52.65 ms)**

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Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 18:19:44
End at: 2018-06-20 18:20:14
Local clock offset: -0.411 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.34%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 18:39:40
End at: 2018-06-20 18:40:10
Local clock offset: 0.002 ms
Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 74.70 Mbit/s
  95th percentile per-packet one-way delay: 52.760 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 74.70 Mbit/s
  95th percentile per-packet one-way delay: 52.760 ms
  Loss rate: 0.32%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 18:59:38
End at: 2018-06-20 19:00:08
Local clock offset: -0.024 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 50.652 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 50.652 ms
Loss rate: 0.36%
Run 7: Report of TCP Vegas — Data Link
Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 19:19:32
End at: 2018-06-20 19:20:02
Local clock offset: -0.318 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.63 Mbit/s
95th percentile per-packet one-way delay: 52.629 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 52.63 Mbit/s
95th percentile per-packet one-way delay: 52.629 ms
Loss rate: 0.35%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

End at: 2018-06-20 19:39:58
Local clock offset: 0.089 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 77.80 Mbit/s
  95th percentile per-packet one-way delay: 52.103 ms
  Loss rate: 0.27%
-- Flow 1:
  Average throughput: 77.80 Mbit/s
  95th percentile per-packet one-way delay: 52.103 ms
  Loss rate: 0.27%
Run 9: Report of TCP Vegas — Data Link

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

- **Throughput (Mbps)**
  - Y-axis from 0 to 100
  - X-axis from 0 to 30 seconds

- **Packet Delay (ms)**
  - Y-axis from 50 to 100
  - X-axis from 0 to 30 seconds

Legend:
- Flow 1 ingress (mean 77.75 Mbit/s)
- Flow 1 egress (mean 77.80 Mbit/s)
- Flow 1 (95th percentile 52.10 ms)
Run 10: Statistics of TCP Vegas

End at: 2018-06-20 19:59:58
Local clock offset: -0.055 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-20 21:11:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.06 Mbit/s
95th percentile per-packet one-way delay: 53.238 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 84.06 Mbit/s
95th percentile per-packet one-way delay: 53.238 ms
Loss rate: 0.38%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-06-20 16:51:20
End at: 2018-06-20 16:51:50
Local clock offset: 0.029 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-20 21:13:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.82 Mbit/s
95th percentile per-packet one-way delay: 184.852 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 239.82 Mbit/s
95th percentile per-packet one-way delay: 184.852 ms
Loss rate: 0.61%
Run 1: Report of Verus — Data Link

[Graphs showing throughput and packet delay over time]
Run 2: Statistics of Verus

Start at: 2018-06-20 17:11:10  
End at: 2018-06-20 17:11:40  
Local clock offset: 0.301 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-20 21:13:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 222.62 Mbit/s  
95th percentile per-packet one-way delay: 103.857 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 222.62 Mbit/s  
95th percentile per-packet one-way delay: 103.857 ms  
Loss rate: 0.65%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 222.44 Mbps)
- Flow 1 egress (mean 222.62 Mbps)

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

- Flow 1 (95th percentile 103.86 ms)
Run 3: Statistics of Verus

Start at: 2018-06-20 17:31:11
End at: 2018-06-20 17:31:41
Local clock offset: 0.421 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-20 21:14:07
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 242.56 Mbit/s
  95th percentile per-packet one-way delay: 158.656 ms
  Loss rate: 0.72%
-- Flow 1:
  Average throughput: 242.56 Mbit/s
  95th percentile per-packet one-way delay: 158.656 ms
  Loss rate: 0.72%
Run 3: Report of Verus — Data Link

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

Flow 1 ingress (mean 243.50 Mbit/s)
Flow 1 egress (mean 242.56 Mbit/s)

Flow 1 (95th percentile 158.66 ms)
Run 4: Statistics of Verus

Start at: 2018-06-20 17:51:14
End at: 2018-06-20 17:51:44
Local clock offset: 0.074 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-06-20 21:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 79.233 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 203.97 Mbit/s
95th percentile per-packet one-way delay: 79.233 ms
Loss rate: 0.66%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-20 18:11:25
End at: 2018-06-20 18:11:55
Local clock offset: 0.02 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-20 21:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 90.871 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 206.06 Mbit/s
95th percentile per-packet one-way delay: 90.871 ms
Loss rate: 0.58%
Run 5: Report of Verus — Data Link

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

- Flow 1 ingress (mean 206.51 Mbit/s)
- Flow 1 egress (mean 206.06 Mbit/s)

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

- Flow 1 (95th percentile 90.87 ms)
Run 6: Statistics of Verus

Start at: 2018-06-20 18:31:19
End at: 2018-06-20 18:31:49
Local clock offset: 0.013 ms
Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-06-20 21:14:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.83 Mbit/s
95th percentile per-packet one-way delay: 95.097 ms
Loss rate: 0.53%

-- Flow 1:
Average throughput: 234.83 Mbit/s
95th percentile per-packet one-way delay: 95.097 ms
Loss rate: 0.53%
Run 6: Report of Verus — Data Link

![Graph 1: Throughput vs Time](image1)
- Flow 1 ingress (mean 234.80 Mbit/s)
- Flow 1 egress (mean 234.83 Mbit/s)

![Graph 2: Per-packet delay vs Time](image2)
- Flow 1 (95th percentile 95.10 ms)
Run 7: Statistics of Verus

Start at: 2018-06-20 18:51:17
End at: 2018-06-20 18:51:47
Local clock offset: -0.021 ms
Remote clock offset: 0.342 ms

# Below is generated by plot.py at 2018-06-20 21:15:09
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 251.11 Mbit/s
  95th percentile per-packet one-way delay: 87.558 ms
  Loss rate: 0.31%
  -- Flow 1:
  Average throughput: 251.11 Mbit/s
  95th percentile per-packet one-way delay: 87.558 ms
  Loss rate: 0.31%
Run 7: Report of Verus — Data Link

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

**Throughput** (Mbps)

**Time (s)**

**Flow 1 ingress (mean 251.43 Mbit/s)**

**Flow 1 egress (mean 251.11 Mbit/s)**

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

**Flow 1 (95th percentile 87.56 ms)**

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Run 8: Statistics of Verus

Start at: 2018-06-20 19:11:11
End at: 2018-06-20 19:11:41
Local clock offset: 0.025 ms
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-06-20 21:15:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.39 Mbit/s
95th percentile per-packet one-way delay: 80.874 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 214.39 Mbit/s
95th percentile per-packet one-way delay: 80.874 ms
Loss rate: 0.43%
Run 8: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 214.60 Mbit/s)
- Flow 1 egress (mean 214.39 Mbit/s)

Packet delay is shown with a second graph, indicating the 95th percentile at 80.87 ms.
Run 9: Statistics of Verus

Start at: 2018-06-20 19:31:07
End at: 2018-06-20 19:31:37
Local clock offset: 0.428 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-20 21:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.87 Mbit/s
95th percentile per-packet one-way delay: 73.829 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 234.87 Mbit/s
95th percentile per-packet one-way delay: 73.829 ms
Loss rate: 0.10%
Run 9: Report of Verus — Data Link
Run 10: Statistics of Verus

Start at: 2018-06-20 19:51:08
End at: 2018-06-20 19:51:38
Local clock offset: 0.007 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-06-20 21:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.66 Mbit/s
95th percentile per-packet one-way delay: 146.117 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 207.66 Mbit/s
95th percentile per-packet one-way delay: 146.117 ms
Loss rate: 0.96%
Run 10: Report of Verus — Data Link

[Graphs showing throughput and per-packet one-way delay over time]
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 16:44:22
End at: 2018-06-20 16:44:52
Local clock offset: -0.218 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-20 21:20:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 354.28 Mbit/s
95th percentile per-packet one-way delay: 50.669 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 354.28 Mbit/s
95th percentile per-packet one-way delay: 50.669 ms
Loss rate: 0.34%
Run 1: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 354.28 Mbps)
  - Flow 1 egress (mean 354.28 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 50.67 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 17:04:24
End at: 2018-06-20 17:04:54
Local clock offset: 0.312 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-20 21:20:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.87 Mbit/s
95th percentile per-packet one-way delay: 52.224 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 278.87 Mbit/s
95th percentile per-packet one-way delay: 52.224 ms
Loss rate: 0.62%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 279.65 Mbit/s)
- Flow 1 egress (mean 278.87 Mbit/s)

- Flow 1 (95th percentile 52.22 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 17:24:18
End at: 2018-06-20 17:24:48
Local clock offset: -0.047 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-06-20 21:20:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.66 Mbit/s
95th percentile per-packet one-way delay: 50.967 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 304.66 Mbit/s
95th percentile per-packet one-way delay: 50.967 ms
Loss rate: 0.50%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 17:44:31
End at: 2018-06-20 17:45:01
Local clock offset: -0.321 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-20 21:20:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.32 Mbit/s
95th percentile per-packet one-way delay: 54.100 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 353.32 Mbit/s
95th percentile per-packet one-way delay: 54.100 ms
Loss rate: 0.32%
Run 4: Report of PCC-Vivace — Data Link

The graphs show the throughput and packet delay over time for Flow 1. The throughput graph indicates a peak at the beginning followed by a steady decrease. The packet delay graph shows a spike at the beginning with a gradual decrease as well.

- **Throughput (Mbps)**
  - Flow 1 ingress: mean 353.27 Mbit/s
  - Flow 1 egress: mean 353.32 Mbit/s

- **Packet Delay (ms)**
  - Flow 1 (95th percentile 54.10 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 18:04:33
End at: 2018-06-20 18:05:03
Local clock offset: 0.031 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-20 21:20:57
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 308.18 Mbit/s
  95th percentile per-packet one-way delay: 51.217 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 308.18 Mbit/s
  95th percentile per-packet one-way delay: 51.217 ms
  Loss rate: 0.38%
Run 5: Report of PCC-Vivace — Data Link

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**Throughput (Mbps)**

![Throughput Graph]

- **Flow 1 ingress (mean 308.29 Mbps)**
- **Flow 1 egress (mean 308.18 Mbps)**

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

![Per-packet Delay Graph]

- **Flow 1 (95th percentile 51.22 ms)**

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Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 18:24:36
End at: 2018-06-20 18:25:06
Local clock offset: 0.382 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-20 21:21:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.95 Mbit/s
95th percentile per-packet one-way delay: 51.896 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 337.95 Mbit/s
95th percentile per-packet one-way delay: 51.896 ms
Loss rate: 0.35%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 18:44:27
End at: 2018-06-20 18:44:57
Local clock offset: -0.001 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-06-20 21:22:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 330.84 Mbit/s
  95th percentile per-packet one-way delay: 51.602 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 330.84 Mbit/s
  95th percentile per-packet one-way delay: 51.602 ms
  Loss rate: 0.34%
Run 7: Report of PCC-Vivace — Data Link
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 19:04:27
End at: 2018-06-20 19:04:57
Local clock offset: -0.011 ms
Remote clock offset: 0.406 ms

# Below is generated by plot.py at 2018-06-20 21:22:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.66 Mbit/s
95th percentile per-packet one-way delay: 51.586 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 339.66 Mbit/s
95th percentile per-packet one-way delay: 51.586 ms
Loss rate: 0.42%
Run 8: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 339.93 Mbit/s)
- Flow 1 egress (mean 339.66 Mbit/s)

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

- Flow 1 (95th percentile 51.59 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 19:24:26
End at: 2018-06-20 19:24:56
Local clock offset: 0.394 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.57 Mbit/s
95th percentile per-packet one-way delay: 53.792 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 281.57 Mbit/s
95th percentile per-packet one-way delay: 53.792 ms
Loss rate: 0.40%
Run 9: Report of PCC-Vivace — Data Link
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 19:44:21
End at: 2018-06-20 19:44:51
Local clock offset: 0.4 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.16 Mbit/s
95th percentile per-packet one-way delay: 51.332 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 253.16 Mbit/s
95th percentile per-packet one-way delay: 51.332 ms
Loss rate: 0.47%
Run 10: Report of PCC-Vivace — Data Link

![Throughput Graph](Image)

- Flow 1 ingress (mean 253.49 Mbit/s)
- Flow 1 egress (mean 253.16 Mbit/s)

![Delay Graph](Image)

- Flow 1 (95th percentile 51.33 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-06-20 16:52:40
End at: 2018-06-20 16:53:10
Local clock offset: 0.026 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.47%
Run 1: Report of WebRTC media — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 ingress (mean 1.64 Mbit/s)**
- **Flow 1 egress (mean 1.63 Mbit/s)**

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

- **Flow 1 (95th percentile 50.77 ms)**
Run 2: Statistics of WebRTC media

Start at: 2018-06-20 17:12:29
End at: 2018-06-20 17:12:59
Local clock offset: -0.081 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.588 ms
Loss rate: 0.43%
Run 2: Report of WebRTC media — Data Link

![Data Link Throughput Graph]

![Data Link Delay Graph]
Run 3: Statistics of WebRTC media

Start at: 2018-06-20 17:32:31
End at: 2018-06-20 17:33:01
Local clock offset: 0.383 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.338 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.338 ms
Loss rate: 0.36%
Run 3: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for WebRTC media with labels for Flow 1 ingress and egress, indicating mean data rates of 1.96 Mbit/s.]

![Graph showing packet delay over time for WebRTC media with label for 95th percentile packet delay at 51.34 ms.]
Run 4: Statistics of WebRTC media

Start at: 2018-06-20 17:52:32
End at: 2018-06-20 17:53:02
Local clock offset: -0.27 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.93 Mbit/s
  95th percentile per-packet one-way delay: 50.155 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 1.93 Mbit/s
  95th percentile per-packet one-way delay: 50.155 ms
  Loss rate: 0.38%
Run 4: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.93 Mbit/s)  Flow 1 egress (mean 1.93 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.16 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-06-20 18:12:43
Local clock offset: 0.023 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.35%
Run 5: Report of WebRTC media — Data Link

![Graph 1](image1)

- Flow 1 ingress (mean 1.93 Mbit/s)
- Flow 1 egress (mean 1.93 Mbit/s)

![Graph 2](image2)

- Flow 1 99th percentile 50.65 ms
Run 6: Statistics of WebRTC media

Start at: 2018-06-20 18:32:39
End at: 2018-06-20 18:33:09
Local clock offset: -0.007 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.468 ms
Loss rate: 0.37%
Run 6: Report of WebRTC media — Data Link

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

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

Legend:
- Flow 1 ingress (mean 1.96 Mbit/s)
- Flow 1 egress (mean 1.96 Mbit/s)
- Flow 1 (95th percentile 50.47 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-06-20 18:52:38
End at: 2018-06-20 18:53:08
Local clock offset: 0.036 ms
Remote clock offset: 0.27 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.99 Mbit/s
  95th percentile per-packet one-way delay: 51.256 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 1.99 Mbit/s
  95th percentile per-packet one-way delay: 51.256 ms
  Loss rate: 0.35%
Run 7: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.99 Mbit/s)  Flow 1 egress (mean 1.99 Mbit/s)

Packet drop rate (ms)

Time (s)

Flow 1 (95th percentile 51.26 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-06-20 19:12:30
End at: 2018-06-20 19:13:00
Local clock offset: 0.035 ms
Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.37%
Run 8: Report of WebRTC media — Data Link

- Throughput (Mbps):
  - Flow 1 ingress (mean 1.96 Mbps)
  - Flow 1 egress (mean 1.95 Mbps)

- Round-trip time (ms):
  - Flow 1 (95th percentile 51.09 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-20 19:32:27
End at: 2018-06-20 19:32:57
Local clock offset: -0.315 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.37%
Run 9: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for WebRTC media.]
Run 10: Statistics of WebRTC media

Start at: 2018-06-20 19:52:27
End at: 2018-06-20 19:52:57
Local clock offset: 0.013 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-20 21:22:28
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.94 Mbit/s
  95th percentile per-packet one-way delay: 51.166 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 1.94 Mbit/s
  95th percentile per-packet one-way delay: 51.166 ms
  Loss rate: 0.37%
Run 10: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 1.94 Mbit/s)
- Flow 1 egress (mean 1.94 Mbit/s)

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

- Flow 1 (95th percentile 51.17 ms)