Pantheon Report

Generated at 2018-06-07 04:57:00 (UTC).
Data path: GCE London Ethernet (local) → GCE Iowa Ethernet (remote).
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 @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a9299986eaa5a9c169a7f381fe1bbee5
third_party/indigo @ 2601c92e4aa9d58d38dc4df0ecd0f90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed312594366f9840f65b82cbe8f46d41b39
third_party/pcc @ 1af905f2a0d66d18b623c091a55f6c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08f924eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3ccff42
third_party/scream-reproduce @ f0991d81421aa3131bf11ff1964974e1da3b3db2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c388669682f0c19f6baf92a9c9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ae74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9d2e4735770d143a1fa2851
test from GCE London to GCE Iowa, 10 runs of 30s each per scheme
(mean of all runs by scheme)
<table>
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<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s) flow 1</th>
<th>mean 95th-%ile delay (ms) flow 1</th>
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<td>188.28</td>
<td>62.41</td>
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<td>167.62</td>
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<td>Indigo</td>
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<td>229.06</td>
<td>52.34</td>
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<td>LEDBAT</td>
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<td>31.88</td>
<td>52.51</td>
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<tr>
<td>PCC-Allegro</td>
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<td>137.26</td>
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<td>PCC-Expr</td>
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<td>246.15</td>
<td>104.61</td>
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<td>QUIC Cubic</td>
<td>7</td>
<td>49.75</td>
<td>50.61</td>
<td>0.00</td>
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<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>50.52</td>
<td>0.00</td>
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<td>Sprout</td>
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<td>TaoVA-100x</td>
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<td>0.01</td>
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<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>149.65</td>
<td>57.97</td>
<td>0.02</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>232.12</td>
<td>107.51</td>
<td>1.04</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>309.48</td>
<td>72.06</td>
<td>0.10</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.87</td>
<td>50.53</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-07 00:05:20
End at: 2018-06-07 00:05:50
Local clock offset: -0.038 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 03:37:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.85 Mbit/s
95th percentile per-packet one-way delay: 57.811 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 222.85 Mbit/s
95th percentile per-packet one-way delay: 57.811 ms
Loss rate: 0.07%
Run 1: Report of TCP BBR — Data Link

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

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

Start at: 2018-06-07 00:25:42
End at: 2018-06-07 00:26:12
Local clock offset: -0.045 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 03:37:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.98 Mbit/s
95th percentile per-packet one-way delay: 56.532 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 220.98 Mbit/s
95th percentile per-packet one-way delay: 56.532 ms
Loss rate: 0.03%
Run 2: Report of TCP BBR — Data Link

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

- **Flow 1 ingress (mean 221.27 Mbps)**
- **Flow 1 egress (mean 220.98 Mbps)**

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

- **Flow 1 (95th percentile 56.53 ms)**
Run 3: Statistics of TCP BBR

Start at: 2018-06-07 00:45:45
End at: 2018-06-07 00:46:15
Local clock offset: -0.093 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-06-07 03:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.45 Mbit/s
95th percentile per-packet one-way delay: 59.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.45 Mbit/s
95th percentile per-packet one-way delay: 59.463 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

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

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

Start at: 2018-06-07 01:06:12
End at: 2018-06-07 01:06:42
Local clock offset: 0.359 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-07 03:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 58.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.52 Mbit/s
95th percentile per-packet one-way delay: 58.338 ms
Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link

![Throughput Graph]

![Packet Delay Graph]

Legend:
- Flow 1 ingress (mean 223.52 Mbit/s)
- Flow 1 egress (mean 223.52 Mbit/s)
- Flow 1 (95th percentile 58.34 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-06-07 01:26:51
End at: 2018-06-07 01:27:21
Local clock offset: 0.003 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-06-07 03:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.45 Mbit/s
95th percentile per-packet one-way delay: 56.301 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 221.45 Mbit/s
95th percentile per-packet one-way delay: 56.301 ms
Loss rate: 0.01%
Run 5: Report of TCP BBR — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 221.46 Mbps)
Flow 1 egress (mean 221.45 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 56.30 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-06-07 01:47:11
End at: 2018-06-07 01:47:41
Local clock offset: -0.105 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-07 03:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.04 Mbit/s
95th percentile per-packet one-way delay: 57.921 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.04 Mbit/s
95th percentile per-packet one-way delay: 57.921 ms
Loss rate: 0.01%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 222.05 Mbit/s)
- Flow 1 egress (mean 222.04 Mbit/s)

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

- Flow 1 (95th percentile 57.92 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-06-07 02:07:37
End at: 2018-06-07 02:08:07
Local clock offset: -0.015 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 03:37:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.30 Mbit/s
95th percentile per-packet one-way delay: 59.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.30 Mbit/s
95th percentile per-packet one-way delay: 59.920 ms
Loss rate: 0.00%
Run 7: Report of TCP BBR — Data Link

![Throughput Graph](chart_1.png)

![Per-packet one way delay](chart_2.png)
Run 8: Statistics of TCP BBR

Start at: 2018-06-07 02:28:06
End at: 2018-06-07 02:28:36
Local clock offset: 0.413 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-06-07 03:37:38
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 225.38 Mbit/s
  95th percentile per-packet one-way delay: 60.386 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 225.38 Mbit/s
  95th percentile per-packet one-way delay: 60.386 ms
  Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 225.38 Mbps)
- Flow 1 egress (mean 225.38 Mbps)

![Graph 2: Packet One Way Delay (ms)](image)

- Flow 1 (95th percentile 60.39 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-07 02:48:15
End at: 2018-06-07 02:48:45
Local clock offset: -0.38 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-07 03:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 59.520 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 218.87 Mbit/s
95th percentile per-packet one-way delay: 59.520 ms
Loss rate: 0.02%
Run 9: Report of TCP BBR — Data Link

![Graphs showing throughput and per-packet one-way delay over time](image)

- Flow 1 ingress (mean 218.93 Mbit/s)
- Flow 1 egress (mean 218.87 Mbit/s)

![Flow 1 (95th percentile 59.52 ms)](image)
Run 10: Statistics of TCP BBR

Start at: 2018-06-07 03:08:41
End at: 2018-06-07 03:09:11
Local clock offset: -0.013 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-07 03:40:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.78 Mbit/s
95th percentile per-packet one-way delay: 58.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.78 Mbit/s
95th percentile per-packet one-way delay: 58.693 ms
Loss rate: 0.00%
Run 10: Report of TCP BBR — Data Link

![Throughput Graph]

![Delay Graph]
Run 1: Statistics of Copa

Start at: 2018-06-07 00:09:06
End at: 2018-06-07 00:09:36
Local clock offset: -0.015 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-07 03:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.25 Mbit/s
95th percentile per-packet one-way delay: 68.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.25 Mbit/s
95th percentile per-packet one-way delay: 68.336 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

![Graph of network throughput over time](image1)

- **Flow 1 ingress (mean 163.25 Mbit/s)**
- **Flow 1 egress (mean 163.25 Mbit/s)**

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

- **Flow 1 (95th percentile 68.34 ms)**
Run 2: Statistics of Copa

Start at: 2018-06-07 00:29:25
End at: 2018-06-07 00:29:55
Local clock offset: -0.004 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-07 03:43:43
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 216.10 Mbit/s
  95th percentile per-packet one-way delay: 60.312 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 216.10 Mbit/s
  95th percentile per-packet one-way delay: 60.312 ms
  Loss rate: 0.01%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-06-07 00:49:29
End at: 2018-06-07 00:49:59
Local clock offset: -0.044 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-06-07 03:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.82 Mbit/s
95th percentile per-packet one-way delay: 59.038 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 186.82 Mbit/s
95th percentile per-packet one-way delay: 59.038 ms
Loss rate: 0.04%
Run 3: Report of Copa — Data Link

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

![Graph 2: Packet Delay over Time](image2)
Run 4: Statistics of Copa

Start at: 2018-06-07 01:09:57
End at: 2018-06-07 01:10:27
Local clock offset: 0.391 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 03:43:43
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 207.43 Mbit/s
  95th percentile per-packet one-way delay: 66.846 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 207.43 Mbit/s
  95th percentile per-packet one-way delay: 66.846 ms
  Loss rate: 0.01%
Run 4: Report of Copa — Data Link

[Graphs showing throughput and packet delay over time for Flow 1 ingress and egress.]
Run 5: Statistics of Copa

Start at: 2018-06-07 01:30:34
End at: 2018-06-07 01:31:04
Local clock offset: 0.364 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-07 03:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.83 Mbit/s
95th percentile per-packet one-way delay: 58.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.83 Mbit/s
95th percentile per-packet one-way delay: 58.875 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

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

1. Throughput (Mbps): The graph shows the throughput (Mbps) over time. The throughput fluctuates significantly, peaking close to 300 Mbps at various points and dropping to near 0 Mbps towards the end. The blue dashed line represents Flow 1 ingress (mean 179.83 Mbps), while the solid blue line represents Flow 1 egress (mean 179.83 Mbps).

2. Packet Inter-Packet Delay (ms): The graph displays the packet inter-packet delay (ms) over time. The delay varies greatly, with spikes reaching up to 80 ms at some points and generally staying below 50 ms. The blue line with circle markers represents Flow 1 (95th percentile 58.8 ms).
Run 6: Statistics of Copa

Start at: 2018-06-07 01:50:53
End at: 2018-06-07 01:51:23
Local clock offset: -0.107 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 03:43:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.88 Mbit/s
95th percentile per-packet one-way delay: 63.941 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 200.88 Mbit/s
95th percentile per-packet one-way delay: 63.941 ms
Loss rate: 0.01%
Run 6: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 200.89 Mbit/s)
- Flow 1 egress (mean 200.88 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 63.94 ms)
Run 7: Statistics of Copa

Start at: 2018-06-07 02:11:20
End at: 2018-06-07 02:11:50
Local clock offset: 0.028 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.53 Mbit/s
95th percentile per-packet one-way delay: 64.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.53 Mbit/s
95th percentile per-packet one-way delay: 64.542 ms
Loss rate: 0.00%
Run 7: Report of Copa — Data Link

![Graph of Throughput vs Time](image1)

- **Flow 1 ingress (mean 261.52 Mbit/s)**
- **Flow 1 egress (mean 261.53 Mbit/s)**

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

- **Flow 1 (95th percentile 64.54 ms)**
Run 8: Statistics of Copa

Start at: 2018-06-07 02:31:49  
End at: 2018-06-07 02:32:19  
Local clock offset: 0.036 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 03:48:44  
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 130.01 Mbit/s  
  95th percentile per-packet one-way delay: 61.406 ms  
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 130.01 Mbit/s  
  95th percentile per-packet one-way delay: 61.406 ms  
  Loss rate: 0.00%
Run 8: Report of Copa — Data Link

![Graph 1: Throughput vs Time (Throughput in Mbit/s)]

- Flow 1 ingress (mean 130.01 Mbit/s)
- Flow 1 egress (mean 130.01 Mbit/s)

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

- Flow 1 (95th percentile 61.41 ms)
Run 9: Statistics of Copa

Start at: 2018-06-07 02:51:59
End at: 2018-06-07 02:52:29
Local clock offset: -0.035 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 198.22 Mbit/s
  95th percentile per-packet one-way delay: 60.216 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 198.22 Mbit/s
  95th percentile per-packet one-way delay: 60.216 ms
  Loss rate: 0.00%
Run 9: Report of Copa — Data Link

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

- Flow 1 ingress (mean 198.22 Mbit/s)
- Flow 1 egress (mean 198.22 Mbit/s)

![Graph showing packet delay over time.]

- Flow 1 (95th percentile 60.22 ms)
Run 10: Statistics of Copa

Start at: 2018-06-07 03:12:25
End at: 2018-06-07 03:12:55
Local clock offset: -0.014 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.73 Mbit/s
95th percentile per-packet one-way delay: 60.564 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.73 Mbit/s
95th percentile per-packet one-way delay: 60.564 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 138.73 Mbps)
- Flow 1 egress (mean 138.73 Mbps)

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

- Flow 1 (95th percentile 60.56 ms)
Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 00:10:24
End at: 2018-06-07 00:10:54
Local clock offset: 0.34 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.91 Mbit/s
95th percentile per-packet one-way delay: 57.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.91 Mbit/s
95th percentile per-packet one-way delay: 57.459 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 00:30:49
End at: 2018-06-07 00:31:19
Local clock offset: -0.042 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.77 Mbit/s
95th percentile per-packet one-way delay: 55.203 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.77 Mbit/s
95th percentile per-packet one-way delay: 55.203 ms
Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and latency over time](image-url)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 00:50:50
End at: 2018-06-07 00:51:20
Local clock offset: -0.037 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.22 Mbit/s
95th percentile per-packet one-way delay: 63.536 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 226.22 Mbit/s
95th percentile per-packet one-way delay: 63.536 ms
Loss rate: 0.02%
Run 3: Report of TCP Cubic — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 01:11:19
End at: 2018-06-07 01:11:49
Local clock offset: 0.045 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.81 Mbit/s
95th percentile per-packet one-way delay: 61.130 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 226.81 Mbit/s
95th percentile per-packet one-way delay: 61.130 ms
Loss rate: 0.04%
Run 4: Report of TCP Cubic — Data Link

[Graphs showing throughput and packet delay over time]
Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 01:31:53
End at: 2018-06-07 01:32:24
Local clock offset: 0.331 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.90 Mbit/s
95th percentile per-packet one-way delay: 52.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.90 Mbit/s
95th percentile per-packet one-way delay: 52.626 ms
Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 111.90 Mbit/s)
- Flow 1 egress (mean 111.90 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 52.63 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 01:52:15
End at: 2018-06-07 01:52:45
Local clock offset: -0.113 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-07 03:48:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.03 Mbit/s
95th percentile per-packet one-way delay: 60.478 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 144.03 Mbit/s
95th percentile per-packet one-way delay: 60.478 ms
Loss rate: 0.04%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-06-07 02:12:46
End at: 2018-06-07 02:13:16
Local clock offset: -0.012 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 03:49:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 229.29 Mbit/s
  95th percentile per-packet one-way delay: 60.479 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 229.29 Mbit/s
  95th percentile per-packet one-way delay: 60.479 ms
  Loss rate: 0.00%
Run 7: Report of TCP Cubic — Data Link

![Graph of throughput over time with two lines representing Flow 1 ingress and egress, both with mean 229.34 Mbit/s](image1.png)

![Graph of per-packet one-way delay over time with one line representing Flow 1 with 95th percentile 60.48 ms](image2.png)
Run 8: Statistics of TCP Cubic

Start at: 2018-06-07 02:33:04
End at: 2018-06-07 02:33:34
Local clock offset: 0.071 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-06-07 03:49:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.75 Mbit/s
95th percentile per-packet one-way delay: 61.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.75 Mbit/s
95th percentile per-packet one-way delay: 61.028 ms
Loss rate: 0.00%
Run 8: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 173.75 Mbit/s)
- Flow 1 egress (mean 173.75 Mbit/s)

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

- Flow 1 (95th percentile 61.03 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 02:53:21
End at: 2018-06-07 02:53:51
Local clock offset: -0.013 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-07 03:49:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.76 Mbit/s
95th percentile per-packet one-way delay: 60.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.76 Mbit/s
95th percentile per-packet one-way delay: 60.506 ms
Loss rate: 0.00%
Run 9: Report of TCP Cubic — Data Link

![Throughput Graph](image1)

- **Flow 1 ingress** (mean 181.76 Mbit/s)
- **Flow 1 egress** (mean 181.76 Mbit/s)

![Delay Graph](image2)

- **Flow 1** (95th percentile 65.51 ms)
Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 03:13:41
End at: 2018-06-07 03:14:11
Local clock offset: -0.022 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-07 03:49:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.72 Mbit/s
95th percentile per-packet one-way delay: 59.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 124.72 Mbit/s
95th percentile per-packet one-way delay: 59.459 ms
Loss rate: 0.00%
Run 10: Report of TCP Cubic — Data Link

![Graph showing network throughput and delay over time.](image-url)
Run 1: Statistics of FillP

Start at: 2018-06-07 00:01:21  
End at: 2018-06-07 00:01:51  
Local clock offset: 0.015 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 04:02:29
# Datalink statistics

-- Total of 1 flow:
Average throughput: 743.07 Mbit/s
95th percentile per-packet one-way delay: 134.468 ms
Loss rate: 5.55%

-- Flow 1:
Average throughput: 743.07 Mbit/s
95th percentile per-packet one-way delay: 134.468 ms
Loss rate: 5.55%
Run 1: Report of FillP — Data Link

![Graph of Throughput](image)

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 786.70 Mbps)
- Flow 1 egress (mean 743.07 Mbps)

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

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 134.47 ms)
Run 2: Statistics of FillP

Start at: 2018-06-07 00:21:42
End at: 2018-06-07 00:22:12
Local clock offset: -0.042 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-07 04:02:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 720.08 Mbit/s
95th percentile per-packet one-way delay: 136.650 ms
Loss rate: 5.53%
-- Flow 1:
Average throughput: 720.08 Mbit/s
95th percentile per-packet one-way delay: 136.650 ms
Loss rate: 5.53%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2018-06-07 00:41:48
End at: 2018-06-07 00:42:18
Local clock offset: -0.413 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-07 04:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 717.76 Mbit/s
95th percentile per-packet one-way delay: 130.948 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 717.76 Mbit/s
95th percentile per-packet one-way delay: 130.948 ms
Loss rate: 6.87%
Run 3: Report of FillP — Data Link

- Throughput vs. Time
  - Flow 1 ingress (mean 770.74 Mbit/s)
  - Flow 1 egress (mean 717.76 Mbit/s)

- Per-packet one-way delay vs. Time
  - Flow 1 (95th percentile 130.95 ms)
Run 4: Statistics of FillP

Start at: 2018-06-07 01:02:12
End at: 2018-06-07 01:02:42
Local clock offset: -0.002 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 04:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 709.09 Mbit/s
95th percentile per-packet one-way delay: 136.204 ms
Loss rate: 8.03%
-- Flow 1:
Average throughput: 709.09 Mbit/s
95th percentile per-packet one-way delay: 136.204 ms
Loss rate: 8.03%
Run 4: Report of FillP — Data Link

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

- Flow 1 ingress (mean 771.04 Mbps)
- Flow 1 egress (mean 709.09 Mbps)

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

- Flow 1 (95th percentile 136.20 ms)
Run 5: Statistics of FillP

End at: 2018-06-07 01:23:17  
Local clock offset: 0.399 ms  
Remote clock offset: -0.013 ms  

# Below is generated by plot.py at 2018-06-07 04:05:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 866.41 Mbit/s  
95th percentile per-packet one-way delay: 119.040 ms  
Loss rate: 3.48%  

-- Flow 1:  
Average throughput: 866.41 Mbit/s  
95th percentile per-packet one-way delay: 119.040 ms  
Loss rate: 3.48%
Run 5: Report of FillP — Data Link

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

- **Flow 1 Ingress (mean 897.60 Mb/s)**
- **Flow 1 Egress (mean 866.41 Mb/s)**

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

- **Flow 1 (95th percentile 119.04 ms)**
Run 6: Statistics of FillP

Start at: 2018-06-07 01:43:13
End at: 2018-06-07 01:43:43
Local clock offset: 0.283 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-07 04:05:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 724.50 Mbit/s
95th percentile per-packet one-way delay: 138.341 ms
Loss rate: 8.95%
-- Flow 1:
Average throughput: 724.50 Mbit/s
95th percentile per-packet one-way delay: 138.341 ms
Loss rate: 8.95%
Run 6: Report of FillP — Data Link

![Graph showing data link performance over time.]

- **Flow 1 ingress** (mean 795.74 Mbps)
- **Flow 1 egress** (mean 724.50 Mbps)

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

- **Flow 1** (95th percentile 138.34 ms)
Run 7: Statistics of FillP

Start at: 2018-06-07 02:03:37
End at: 2018-06-07 02:04:07
Local clock offset: 0.379 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-07 04:05:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 753.30 Mbit/s
95th percentile per-packet one-way delay: 132.700 ms
Loss rate: 6.99%
-- Flow 1:
Average throughput: 753.30 Mbit/s
95th percentile per-packet one-way delay: 132.700 ms
Loss rate: 6.99%
Run 7: Report of FillP — Data Link

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

- **Flow 1 Ingress** (mean 800.92 Mbit/s)
- **Flow 1 Egress** (mean 753.30 Mbit/s)

![Graph 2: Per-Socket One-Way Delay vs Time](image2.png)

- **Flow 1** (95th percentile 132.70 ms)
Run 8: Statistics of FillP

Start at: 2018-06-07 02:24:02
End at: 2018-06-07 02:24:32
Local clock offset: 0.031 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-07 04:05:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 819.05 Mbit/s
95th percentile per-packet one-way delay: 142.763 ms
Loss rate: 6.24%
-- Flow 1:
Average throughput: 819.05 Mbit/s
95th percentile per-packet one-way delay: 142.763 ms
Loss rate: 6.24%
Run 8: Report of FillP — Data Link

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

- Flow 1 ingress (mean 873.59 Mbps)
- Flow 1 egress (mean 819.05 Mbps)

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

- Flow 1 (95th percentile 142.76 ms)
Run 9: Statistics of FillP

Start at: 2018-06-07 02:44:13
End at: 2018-06-07 02:44:43
Local clock offset: -0.005 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 04:17:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 796.13 Mbit/s
95th percentile per-packet one-way delay: 167.619 ms
Loss rate: 4.89%
-- Flow 1:
Average throughput: 796.13 Mbit/s
95th percentile per-packet one-way delay: 167.619 ms
Loss rate: 4.89%
Run 9: Report of FillP — Data Link

![Graph of Throughput vs Time](image1)

![Graph of Per-packet One Way Delay vs Time](image2)

Flow 1 Ingress (mean 837.03 Mbits)  Flow 1 Egress (mean 796.13 Mbits)

Flow 1 (95th percentile 167.62 ms)
Run 10: Statistics of FillP

Start at: 2018-06-07 03:04:39
End at: 2018-06-07 03:05:09
Local clock offset: -0.007 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-07 04:18:17
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 801.20 Mbit/s
  95th percentile per-packet one-way delay: 135.842 ms
  Loss rate: 5.01%
-- Flow 1:
  Average throughput: 801.20 Mbit/s
  95th percentile per-packet one-way delay: 135.842 ms
  Loss rate: 5.01%
Run 10: Report of FillP — Data Link

![Graph of Throughput vs Time and Packet Delay vs Time]

**Throughput (Mbps):**
- Flow 1 ingress (mean 843.50 Mbps)
- Flow 1 egress (mean 801.20 Mbps)

**Packet Delay (ms):**
- Flow 1 (95th percentile 135.84 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-07 00:04:03
End at: 2018-06-07 00:04:33
Local clock offset: -0.046 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-07 04:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.41 Mbit/s
95th percentile per-packet one-way delay: 51.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.41 Mbit/s
95th percentile per-packet one-way delay: 51.623 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

![Graph of network throughput over time]

- **Throughput (Mbps)**: The graph shows the throughput (Mbps) over time. The data indicates a steady increase in throughput followed by a sudden drop.

![Graph of network delay over time]

- **Per-packet one-way delay (ms)**: The graph displays the per-packet one-way delay (ms) over time. It demonstrates a range of delays, with spikes indicating periods of higher delay.

Legend:
- **Flow 1 ingress (mean 201.40 Mbit/s)**
- **Flow 1 egress (mean 201.41 Mbit/s)**
- **Flow 1 (95th percentile 51.62 ms)**
Run 2: Statistics of Indigo

Start at: 2018-06-07 00:24:22
End at: 2018-06-07 00:24:52
Local clock offset: -0.044 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-07 04:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.62 Mbit/s
95th percentile per-packet one-way delay: 51.425 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 238.62 Mbit/s
95th percentile per-packet one-way delay: 51.425 ms
Loss rate: 0.01%
Run 2: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 238.63 Mbit/s)**
- **Flow 1 egress (mean 238.62 Mbit/s)**

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

- **Flow 1 (95th percentile 51.42 ms)**
Run 3: Statistics of Indigo

Start at: 2018-06-07 00:44:27
End at: 2018-06-07 00:44:57
Local clock offset: -0.072 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-07 04:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.66 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.66 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 217.66 Mbps)**
- **Flow 1 egress (mean 217.66 Mbps)**

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

- **Flow 1 (95th percentile 53.94 ms)**
Run 4: Statistics of Indigo

Start at: 2018-06-07 01:04:52
End at: 2018-06-07 01:05:22
Local clock offset: 0.003 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 04:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.03 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.03 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2018-06-07 01:25:33
End at: 2018-06-07 01:26:03
Local clock offset: 0.045 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-07 04:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.62 Mbit/s
95th percentile per-packet one-way delay: 52.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.62 Mbit/s
95th percentile per-packet one-way delay: 52.813 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

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

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

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Run 6: Statistics of Indigo

Start at: 2018-06-07 01:45:53
End at: 2018-06-07 01:46:23
Local clock offset: -0.099 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.02 Mbit/s
95th percentile per-packet one-way delay: 51.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.02 Mbit/s
95th percentile per-packet one-way delay: 51.403 ms
Loss rate: 0.00%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-07 02:06:18
End at: 2018-06-07 02:06:48
Local clock offset: -0.027 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 226.67 Mbit/s
  95th percentile per-packet one-way delay: 52.741 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 226.67 Mbit/s
  95th percentile per-packet one-way delay: 52.741 ms
  Loss rate: 0.00%
Run 7: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 226.67 Mbps)
- Flow 1 egress (mean 226.67 Mbps)

![Graph 2: Packet Loss (Percentile)]

- Flow 1 (95th percentile 52.74 ms)
Run 8: Statistics of Indigo

Start at: 2018-06-07 02:26:47  
End at: 2018-06-07 02:27:17  
Local clock offset: 0.052 ms  
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
# Total of 1 flow:
Average throughput: 230.25 Mbit/s
95th percentile per-packet one-way delay: 53.261 ms
Loss rate: 0.00%

# Flow 1:
Average throughput: 230.25 Mbit/s
95th percentile per-packet one-way delay: 53.261 ms
Loss rate: 0.00%
Run 8: Report of Indigo — Data Link
Run 9: Statistics of Indigo

Start at: 2018-06-07 02:46:56
End at: 2018-06-07 02:47:26
Local clock offset: -0.008 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.20 Mbit/s
95th percentile per-packet one-way delay: 51.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.20 Mbit/s
95th percentile per-packet one-way delay: 51.947 ms
Loss rate: 0.00%
Run 9: Report of Indigo — Data Link
Run 10: Statistics of Indigo

Start at: 2018-06-07 03:07:21
End at: 2018-06-07 03:07:51
Local clock offset: 0.017 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.14 Mbit/s
95th percentile per-packet one-way delay: 52.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.14 Mbit/s
95th percentile per-packet one-way delay: 52.359 ms
Loss rate: 0.00%
Run 10: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 239.14 Mbit/s)
- Flow 1 egress (mean 239.14 Mbit/s)

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

- Flow 1 (95th percentile 52.36 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-06-07 00:02:56
End at: 2018-06-07 00:03:26
Local clock offset: -0.02 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 51.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.19 Mbit/s
95th percentile per-packet one-way delay: 51.952 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graph showing throughput over time with two lines representing ingress and egress data.]
Run 2: Statistics of LEDBAT

Start at: 2018-06-07 00:23:15
End at: 2018-06-07 00:23:45
Local clock offset: 0.338 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 51.753 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 51.753 ms
Loss rate: 0.02%
Run 2: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 35.05 Mbit/s)**
- **Flow 1 egress (mean 36.04 Mbit/s)**

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

- **Flow 1 (95th percentile 51.75 ms)**
Run 3: Statistics of LEDBAT

Start at: 2018-06-07 00:43:20
End at: 2018-06-07 00:43:50
Local clock offset: -0.059 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 52.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 52.397 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 23.25 Mbps)**
- **Flow 1 egress (mean 23.25 Mbps)**

![Graph of Packet Loss] (image)

- **Flow 1 (95th percentile 52.40 ms)**
Run 4: Statistics of LEDBAT

Start at: 2018-06-07 01:03:45
End at: 2018-06-07 01:04:15
Local clock offset: 0.369 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 35.42 Mbit/s
  95th percentile per-packet one-way delay: 52.000 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 35.42 Mbit/s
  95th percentile per-packet one-way delay: 52.000 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-06-07 01:24:25
End at: 2018-06-07 01:24:55
Local clock offset: 0.406 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 34.77 Mbit/s
  95th percentile per-packet one-way delay: 52.950 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 34.77 Mbit/s
  95th percentile per-packet one-way delay: 52.950 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Start at: 2018-06-07 01:44:46
End at: 2018-06-07 01:45:16
Local clock offset: -0.063 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.29 Mbit/s
95th percentile per-packet one-way delay: 52.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.29 Mbit/s
95th percentile per-packet one-way delay: 52.977 ms
Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-06-07 02:05:11
End at: 2018-06-07 02:05:41
Local clock offset: 0.341 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 35.62 Mbit/s
  95th percentile per-packet one-way delay: 52.095 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 35.62 Mbit/s
  95th percentile per-packet one-way delay: 52.095 ms
  Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link

![Graph](image)

- Flow 1 ingress (mean 35.62 Mbit/s)
- Flow 1 egress (mean 35.62 Mbit/s)

![Graph](image)

- Flow 1 (95th percentile 52.09 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-06-07 02:25:39
End at: 2018-06-07 02:26:09
Local clock offset: 0.407 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 52.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 52.944 ms
Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 35.05 Mbit/s)
- **Flow 1 egress** (mean 35.05 Mbit/s)

![Graph 2: Packet End-to-End Delay](image2)

- **Flow 1** (95th percentile 52.94 ms)
Run 9: Statistics of LEDBAT

Start at: 2018-06-07 02:45:49
End at: 2018-06-07 02:46:19
Local clock offset: 0.0 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 52.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.78 Mbit/s
95th percentile per-packet one-way delay: 52.806 ms
Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-06-07 03:06:14
End at: 2018-06-07 03:06:44
Local clock offset: -0.034 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-07 04:18:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 53.204 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 53.204 ms
Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 00:06:35
End at: 2018-06-07 00:07:05
Local clock offset: 0.005 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-07 04:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 596.67 Mbit/s
95th percentile per-packet one-way delay: 134.636 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 596.67 Mbit/s
95th percentile per-packet one-way delay: 134.636 ms
Loss rate: 0.83%
Run 1: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 601.73 Mbit/s)
- Flow 1 egress (mean 596.67 Mbit/s)

- Flow 1 (95th percentile 134.64 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 00:26:57
End at: 2018-06-07 00:27:27
Local clock offset: -0.01 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-07 04:20:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 537.17 Mbit/s
  95th percentile per-packet one-way delay: 140.500 ms
  Loss rate: 1.48%
-- Flow 1:
  Average throughput: 537.17 Mbit/s
  95th percentile per-packet one-way delay: 140.500 ms
  Loss rate: 1.48%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 00:47:01
End at: 2018-06-07 00:47:31
Local clock offset: -0.435 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-07 04:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.94 Mbit/s
95th percentile per-packet one-way delay: 109.618 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 490.94 Mbit/s
95th percentile per-packet one-way delay: 109.618 ms
Loss rate: 0.54%
Run 3: Report of PCC-Allegro — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 493.61 Mbps)
  - Flow 1 egress (mean 490.94 Mbps)

- Ping packet one way delay (ms)
  - Flow 1 (95th percentile 109.62 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 01:07:27
End at: 2018-06-07 01:07:57
Local clock offset: 0.012 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-07 04:20:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 553.14 Mbit/s
  95th percentile per-packet one-way delay: 211.605 ms
  Loss rate: 3.05%
-- Flow 1:
  Average throughput: 553.14 Mbit/s
  95th percentile per-packet one-way delay: 211.605 ms
  Loss rate: 3.05%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 01:28:06
End at: 2018-06-07 01:28:36
Local clock offset: 0.357 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 04:20:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.84 Mbit/s
95th percentile per-packet one-way delay: 109.555 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 506.84 Mbit/s
95th percentile per-packet one-way delay: 109.555 ms
Loss rate: 0.37%
Run 5: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 508.70 Mbit/s)
- Flow 1 egress (mean 506.84 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 109.56 ms)
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 01:48:26
End at: 2018-06-07 01:48:56
Local clock offset: -0.082 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 04:20:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 508.67 Mbit/s
95th percentile per-packet one-way delay: 146.355 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 508.67 Mbit/s
95th percentile per-packet one-way delay: 146.355 ms
Loss rate: 0.53%
Run 6: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress** (mean 511.40 Mbit/s)
- **Flow 1 egress** (mean 508.67 Mbit/s)

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

- **Flow 1** (95th percentile 146.35 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 02:08:52
End at: 2018-06-07 02:09:22
Local clock offset: -0.008 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 04:26:48
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 530.26 Mbit/s
  95th percentile per-packet one-way delay: 140.401 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 530.26 Mbit/s
  95th percentile per-packet one-way delay: 140.401 ms
  Loss rate: 0.18%
Run 7: Report of PCC-Allegro — Data Link

![Graph of Throughput](image1)

- Flow 1 ingress (mean 531.22 Mbit/s)
- Flow 1 egress (mean 530.26 Mbit/s)

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

- Flow 1 (95th percentile 140.40 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 02:29:22
End at: 2018-06-07 02:29:52
Local clock offset: 0.022 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-07 04:26:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 457.27 Mbit/s
95th percentile per-packet one-way delay: 98.175 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 457.27 Mbit/s
95th percentile per-packet one-way delay: 98.175 ms
Loss rate: 0.07%
Run 8: Report of PCC-Allegro — Data Link

![Graph of Throughput and Per Packet Delay]

- Flow 1 ingress (mean 457.61 Mbit/s)
- Flow 1 egress (mean 457.27 Mbit/s)
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 02:49:30
End at: 2018-06-07 02:50:00
Local clock offset: 0.008 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-07 04:27:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 549.83 Mbit/s
95th percentile per-packet one-way delay: 131.209 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 549.83 Mbit/s
95th percentile per-packet one-way delay: 131.209 ms
Loss rate: 0.65%
Run 9: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet delay over time]

Throughput (Mbit/s) vs. Time (s):
- Flow 1 ingress (mean 553.42 Mbit/s)
- Flow 1 egress (mean 549.83 Mbit/s)

Per-packet one-way delay (ms) vs. Time (s):
- Flow 1 (95th percentile 131.23 ms)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 03:09:56
End at: 2018-06-07 03:10:26
Local clock offset: -0.009 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 04:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.13 Mbit/s
95th percentile per-packet one-way delay: 150.511 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 531.13 Mbit/s
95th percentile per-packet one-way delay: 150.511 ms
Loss rate: 2.14%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 00:12:56
End at: 2018-06-07 00:13:26
Local clock offset: -0.412 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-07 04:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.11 Mbit/s
95th percentile per-packet one-way delay: 82.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.11 Mbit/s
95th percentile per-packet one-way delay: 82.636 ms
Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 00:33:24
End at: 2018-06-07 00:33:54
Local clock offset: -0.034 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 04:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.04 Mbit/s
95th percentile per-packet one-way delay: 166.548 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 253.04 Mbit/s
95th percentile per-packet one-way delay: 166.548 ms
Loss rate: 0.42%
Run 2: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)](chart1)

![Graph 2: Per packet one way delay (ms)](chart2)

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Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 00:53:30
End at: 2018-06-07 00:54:00
Local clock offset: -0.025 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-07 04:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.52 Mbit/s
95th percentile per-packet one-way delay: 76.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.52 Mbit/s
95th percentile per-packet one-way delay: 76.650 ms
Loss rate: 0.00%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 01:14:03  
End at: 2018-06-07 01:14:33  
Local clock offset: 0.017 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-07 04:27:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 224.65 Mbit/s  
95th percentile per-packet one-way delay: 67.171 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 224.65 Mbit/s  
95th percentile per-packet one-way delay: 67.171 ms  
Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link

![Graph showing throughput over time with two lines representing flow ingress and egress with mean 224.65 Mbit/s.]

![Graph showing per packet one way delay with spikes at certain intervals and 95th percentile is 67.17 ms.]
Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 01:34:30
End at: 2018-06-07 01:35:00
Local clock offset: -0.076 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-07 04:34:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.60 Mbit/s
95th percentile per-packet one-way delay: 71.328 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 271.60 Mbit/s
95th percentile per-packet one-way delay: 71.328 ms
Loss rate: 0.01%
Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 01:54:54
End at: 2018-06-07 01:55:24
Local clock offset: -0.102 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-06-07 04:35:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.86 Mbit/s
95th percentile per-packet one-way delay: 152.315 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 290.86 Mbit/s
95th percentile per-packet one-way delay: 152.315 ms
Loss rate: 0.59%
Run 6: Report of PCC-Expr — Data Link

[Graph showing throughput and packet error rates over time]

Flow 1 (95th percentile 152.31 ms)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 02:15:29
End at: 2018-06-07 02:15:59
Local clock offset: 0.022 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 04:35:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.92 Mbit/s
95th percentile per-packet one-way delay: 62.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.92 Mbit/s
95th percentile per-packet one-way delay: 62.805 ms
Loss rate: 0.00%
Run 7: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 209.92 Mbps)
- Flow 1 egress (mean 209.92 Mbps)

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

- Flow 1 (95th percentile 62.80 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 02:35:44
End at: 2018-06-07 02:36:14
Local clock offset: 0.032 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-07 04:35:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.48 Mbit/s
95th percentile per-packet one-way delay: 93.449 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 207.48 Mbit/s
95th percentile per-packet one-way delay: 93.449 ms
Loss rate: 0.20%
Run 8: Report of PCC-Expr — Data Link

![Throughput graphs]

- **Flow 1 ingress (mean 207.90 Mbit/s)**
- **Flow 1 egress (mean 207.48 Mbit/s)**

![Packet delay graphs]

- **Flow 1 (95th percentile 93.45 ms)**
Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 02:55:58
End at: 2018-06-07 02:56:28
Local clock offset: 0.033 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-07 04:35:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.47 Mbit/s
95th percentile per-packet one-way delay: 123.822 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 251.47 Mbit/s
95th percentile per-packet one-way delay: 123.822 ms
Loss rate: 0.66%
Run 9: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)](image1)
Flow 1 ingress (mean 253.15 Mbit/s)  Flow 1 egress (mean 251.47 Mbit/s)

![Graph 2: Per packet one-way delay (ms)](image2)
Flow 1 (95th percentile 123.82 ms)
Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 03:16:15
End at: 2018-06-07 03:16:45
Local clock offset: 0.026 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.88 Mbit/s
95th percentile per-packet one-way delay: 149.331 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 245.88 Mbit/s
95th percentile per-packet one-way delay: 149.331 ms
Loss rate: 0.26%
Run 10: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 00:16:59
End at: 2018-06-07 00:17:29
Local clock offset: -0.031 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 50.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.39 Mbit/s
95th percentile per-packet one-way delay: 50.347 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress** (mean 45.39 Mbit/s)
- **Flow 1 egress** (mean 45.39 Mbit/s)

![Graph showing packet delay](image)

- **Flow 1** (95th percentile 50.35 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 00:37:16
End at: 2018-06-07 00:37:46
Local clock offset: -0.417 ms
Remote clock offset: -0.08 ms
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 00:57:31
End at: 2018-06-07 00:58:01
Local clock offset: -0.02 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 50.318 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 50.318 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 01:18:02
End at: 2018-06-07 01:18:32
Local clock offset: 0.073 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 50.325 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 53.55 Mbit/s
95th percentile per-packet one-way delay: 50.325 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-07 01:38:28
End at: 2018-06-07 01:38:58
Local clock offset: -0.115 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 01:58:51
End at: 2018-06-07 01:59:21
Local clock offset: -0.093 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 40.20 Mbit/s
  95th percentile per-packet one-way delay: 50.677 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 40.20 Mbit/s
  95th percentile per-packet one-way delay: 50.677 ms
  Loss rate: 0.01%
Run 6: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet loss over time for QUIC Cubic data link.](image)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 40.20 Mbit/s)
  - Flow 1 egress (mean 40.20 Mbit/s)

- **Packet Loss (percentile):**
  - Flow 1 (95th percentile 50.68 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 02:19:22
End at: 2018-06-07 02:19:52
Local clock offset: -0.002 ms
Remote clock offset: -0.033 ms
Run 7: Report of QUIC Cubic — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 02:39:32
End at: 2018-06-07 02:40:02
Local clock offset: -0.351 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 50.964 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 50.964 ms
Loss rate: 0.00%
Run 8: Report of QUIC Cubic — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 49.26 Mbit/s)
- Flow 1 egress (mean 49.26 Mbit/s)

![Packet Delay Graph](image2)

- Flow 1 (95th percentile 50.96 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 02:59:56
End at: 2018-06-07 03:00:26
Local clock offset: 0.043 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 50.571 ms
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 50.98 Mbit/s)
- Flow 1 egress (mean 50.98 Mbit/s)

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

- Flow 1 (95th percentile 50.57 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 03:20:14
End at: 2018-06-07 03:20:44
Local clock offset: -0.015 ms
Remote clock offset: -0.02 ms
Run 10: Report of QUIC Cubic — Data Link

![Graph of Throughput vs. Time]

![Graph of Packet Delay vs. Time]

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Run 1: Statistics of SCReAM

Start at: 2018-06-07 00:08:00
End at: 2018-06-07 00:08:30
Local clock offset: -0.021 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.396 ms
Loss rate: 0.00%
Run 2: Statistics of SCReAM

Start at: 2018-06-07 00:28:20
End at: 2018-06-07 00:28:50
Local clock offset: -0.016 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.672 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

---

**Throughput (Mbps)**

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

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

- **Flow 1 (95th percentile 50.67 ms)**
Run 3: Statistics of SCReAM

Start at: 2018-06-07 00:48:24
End at: 2018-06-07 00:48:54
Local clock offset: -0.052 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph 1: Throughput vs. Time]

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

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

- Flow 1 (95th percentile 51.22 ms)
Run 4: Statistics of SCReAM

Start at: 2018-06-07 01:08:51
End at: 2018-06-07 01:09:21
Local clock offset: 0.019 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.488 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-06-07 01:29:29
End at: 2018-06-07 01:29:59
Local clock offset: 0.337 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.250 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.250 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

![Graph of network traffic and delay](image)

- Flow 1 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.22 Mbit/s)
Run 6: Statistics of SCReAM

Start at: 2018-06-07 01:49:48
End at: 2018-06-07 01:50:18
Local clock offset: -0.075 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 48.980 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 48.980 ms
  Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link

![Graph of throughput and delay over time](image-url)
Run 7: Statistics of SCReAM

Start at: 2018-06-07 02:10:15
End at: 2018-06-07 02:10:45
Local clock offset: 0.097 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link

![Graph of throughput over time with two lines representing flow 1 ingress and egress with mean 0.22 Mbit/s each.](image)

![Graph of packet delay over time with points representing flow 1 and 95th percentile 50.84 ms.](image)
Run 8: Statistics of SCReAM

Start at: 2018-06-07 02:30:43
End at: 2018-06-07 02:31:13
Local clock offset: -0.331 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.225 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

![Graph showing data link performance metrics.]

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

- **Packet Drop One-Way Delay (ms)**
  - Flow 1 (95th percentile 51.23 ms)
Run 9: Statistics of SCReAM

Start at: 2018-06-07 02:50:54
End at: 2018-06-07 02:51:24
Local clock offset: -0.003 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics

-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

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

![Graph 2: One-Way Delay (ms)](image2)
Run 10: Statistics of SCReAM

Start at: 2018-06-07 03:11:19
End at: 2018-06-07 03:11:49
Local clock offset: -0.018 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.638 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.638 ms
  Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

![Throughput Graph]

<table>
<thead>
<tr>
<th>Throughput (Mb/s)</th>
<th>Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>0.20</td>
<td>5</td>
</tr>
<tr>
<td>0.15</td>
<td>10</td>
</tr>
<tr>
<td>0.10</td>
<td>15</td>
</tr>
<tr>
<td>0.05</td>
<td>20</td>
</tr>
<tr>
<td>0.00</td>
<td>25</td>
</tr>
<tr>
<td>0.00</td>
<td>30</td>
</tr>
</tbody>
</table>

Flow 1 ingress (mean 0.22 Mb/s)  Flow 1 egress (mean 0.22 Mb/s)

![Delay Graph]

<table>
<thead>
<tr>
<th>Delay (ms)</th>
<th>Time (s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50.0</td>
<td>0</td>
</tr>
<tr>
<td>51.0</td>
<td>5</td>
</tr>
<tr>
<td>52.0</td>
<td>10</td>
</tr>
<tr>
<td>53.0</td>
<td>15</td>
</tr>
<tr>
<td>54.0</td>
<td>20</td>
</tr>
<tr>
<td>55.0</td>
<td>25</td>
</tr>
<tr>
<td>56.0</td>
<td>30</td>
</tr>
</tbody>
</table>

Flow 1 (95th percentile 50.64 ms)
Run 1: Statistics of Sprout

Start at: 2018-06-07 00:18:06
End at: 2018-06-07 00:18:36
Local clock offset: -0.038 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 51.853 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 51.853 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 6.88 Mbps)**
- **Flow 1 egress (mean 6.88 Mbps)**

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

- **Flow 1 (95th percentile 51.85 ms)**
Run 2: Statistics of Sprout

Start at: 2018-06-07 00:38:21
End at: 2018-06-07 00:38:51
Local clock offset: -0.083 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-07 04:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

*Flow 1 ingress (mean 7.49 Mbit/s)*

*Flow 1 egress (mean 7.49 Mbit/s)*

*Flow 1 (95th percentile 51.54 ms)*
Run 3: Statistics of Sprout

Start at: 2018-06-07 00:58:39
End at: 2018-06-07 00:59:09
Local clock offset: -0.016 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 6.74 Mbit/s
  95th percentile per-packet one-way delay: 51.344 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 6.74 Mbit/s
  95th percentile per-packet one-way delay: 51.344 ms
  Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-06-07 01:19:10
End at: 2018-06-07 01:19:40
Local clock offset: 0.009 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 51.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 51.772 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-06-07 01:39:37
End at: 2018-06-07 01:40:07
Local clock offset: -0.07 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 51.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 51.705 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 5.62 Mbit/s)
- Flow 1 egress (mean 5.62 Mbit/s)

Round-trip time (ms) vs. Time (s)

- Flow 1 (99th percentile 51.70 ms)
Run 6: Statistics of Sprout

Start at: 2018-06-07 01:59:59
End at: 2018-06-07 02:00:29
Local clock offset: -0.061 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 51.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 51.349 ms
Loss rate: 0.00%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-06-07 02:20:27
End at: 2018-06-07 02:20:57
Local clock offset: 0.014 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 51.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 51.302 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 7.24 Mbit/s)  Flow 1 egress (mean 7.24 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 51.30 ms)
Run 8: Statistics of Sprout

Start at: 2018-06-07 02:40:40
End at: 2018-06-07 02:41:10
Local clock offset: -0.014 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 50.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 50.163 ms
Loss rate: 0.00%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-06-07 03:01:04
End at: 2018-06-07 03:01:34
Local clock offset: -0.009 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 51.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 51.378 ms
Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

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

- **Throughput (Mbps)**
  - Y-axis labels: 0, 2, 4, 6, 8
  - X-axis labels: 0, 5, 10, 15, 20, 25, 30

- **Flow 1 ingress (mean 7.00 Mbps)**
- **Flow 1 egress (mean 7.00 Mbps)**

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

- **Per-packet mean delay (ms)**
  - Y-axis labels: 49.0, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5
  - X-axis labels: 0, 5, 10, 15, 20, 25, 30

- **Flow 1 (95th percentile 51.38 ms)**
Run 10: Statistics of Sprout

Start at: 2018-06-07 03:21:19
End at: 2018-06-07 03:21:49
Local clock offset: 0.006 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-07 04:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 51.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 51.269 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 00:19:12
End at: 2018-06-07 00:19:42
Local clock offset: 0.316 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 04:38:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.63 Mbit/s
95th percentile per-packet one-way delay: 50.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.63 Mbit/s
95th percentile per-packet one-way delay: 50.757 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 00:39:27
End at: 2018-06-07 00:39:57
Local clock offset: -0.091 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-07 04:38:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.62 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.62 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

![Graph of throughput and delay over time for Flow 1 ingest and egress.]
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 00:59:45
End at: 2018-06-07 01:00:15
Local clock offset: -0.003 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-07 04:39:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.67 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.67 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

**Graph 1:**
Throughput (Mbps)

- Flow 1 ingress (mean 197.68 Mbit/s)
- Flow 1 egress (mean 197.67 Mbit/s)

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

- Flow 1 (95th percentile 53.59 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 01:20:16
End at: 2018-06-07 01:20:46
Local clock offset: -0.008 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-06-07 04:41:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.71 Mbit/s
95th percentile per-packet one-way delay: 51.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.71 Mbit/s
95th percentile per-packet one-way delay: 51.458 ms
Loss rate: 0.00%
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 01:40:43
End at: 2018-06-07 01:41:13
Local clock offset: -0.083 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-07 04:41:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.67 Mbit/s
95th percentile per-packet one-way delay: 56.527 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 240.67 Mbit/s
95th percentile per-packet one-way delay: 56.527 ms
Loss rate: 0.01%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 02:01:05
End at: 2018-06-07 02:01:35
Local clock offset: -0.068 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-06-07 04:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.79 Mbit/s
95th percentile per-packet one-way delay: 54.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.79 Mbit/s
95th percentile per-packet one-way delay: 54.269 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 02:21:33
End at: 2018-06-07 02:22:03
Local clock offset: -0.342 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-07 04:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.11 Mbit/s
95th percentile per-packet one-way delay: 55.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.11 Mbit/s
95th percentile per-packet one-way delay: 55.127 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 02:41:46
End at: 2018-06-07 02:42:16
Local clock offset: 0.04 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-07 04:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.04 Mbit/s
95th percentile per-packet one-way delay: 56.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.04 Mbit/s
95th percentile per-packet one-way delay: 56.328 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 203.05 Mbit/s)
- Flow 1 egress (mean 203.04 Mbit/s)

![Packet Delay Graph](image2)

- Flow 1 (95th percentile 56.33 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 03:02:10
End at: 2018-06-07 03:02:40
Local clock offset: 0.028 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-07 04:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.82 Mbit/s
95th percentile per-packet one-way delay: 57.206 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 222.82 Mbit/s
95th percentile per-packet one-way delay: 57.206 ms
Loss rate: 0.02%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 03:22:25
End at: 2018-06-07 03:22:55
Local clock offset: -0.008 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 203.46 Mbit/s
  95th percentile per-packet one-way delay: 54.798 ms
  Loss rate: 0.05%
  -- Flow 1:
  Average throughput: 203.46 Mbit/s
  95th percentile per-packet one-way delay: 54.798 ms
  Loss rate: 0.05%
Run 10: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 203.56 Mbps)**
- **Flow 1 egress (mean 203.46 Mbps)**

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

- **Flow 1 (95th percentile 54.80 ms)**
Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 00:15:43
End at: 2018-06-07 00:16:13
Local clock offset: -0.01 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.46 Mbit/s
95th percentile per-packet one-way delay: 60.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.46 Mbit/s
95th percentile per-packet one-way delay: 60.601 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 00:36:07
End at: 2018-06-07 00:36:37
Local clock offset: -0.069 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 51.098 ms
Loss rate: 0.04%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 00:56:15
End at: 2018-06-07 00:56:45
Local clock offset: -0.027 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.67 Mbit/s
95th percentile per-packet one-way delay: 63.405 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 225.67 Mbit/s
95th percentile per-packet one-way delay: 63.405 ms
Loss rate: 0.04%
Run 3: Report of TCP Vegas — Data Link

![Graph showing throughput and packet error rate over time]

- **Flow 1 ingress (mean 225.76 Mbit/s)**
- **Flow 1 egress (mean 225.67 Mbit/s)**

- **Flow 1 (95th percentile 63.41 ms)**
Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 01:16:47
End at: 2018-06-07 01:17:17
Local clock offset: 0.383 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.81 Mbit/s
95th percentile per-packet one-way delay: 56.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.81 Mbit/s
95th percentile per-packet one-way delay: 56.479 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

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

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

Flow 1 ingress (mean 223.82 Mbit/s) and Flow 1 egress (mean 223.81 Mbit/s)

Flow 1 (95th percentile 56.48 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 01:37:17
End at: 2018-06-07 01:37:47
Local clock offset: -0.079 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.80 Mbit/s
95th percentile per-packet one-way delay: 52.592 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 136.80 Mbit/s
95th percentile per-packet one-way delay: 52.592 ms
Loss rate: 0.08%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 01:57:41
End at: 2018-06-07 01:58:11
Local clock offset: -0.086 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.87 Mbit/s
95th percentile per-packet one-way delay: 61.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.87 Mbit/s
95th percentile per-packet one-way delay: 61.261 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 02:18:12
End at: 2018-06-07 02:18:42
Local clock offset: 0.052 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.85 Mbit/s
95th percentile per-packet one-way delay: 52.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.85 Mbit/s
95th percentile per-packet one-way delay: 52.515 ms
Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

![Throughput Graph]

- **Flow 1 ingress (mean 101.85 Mbit/s)**
- **Flow 1 egress (mean 101.85 Mbit/s)**

![Per packet one way delay Graph]

- **Flow 1 (95th percentile 52.52 ms)**
Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 02:38:22
End at: 2018-06-07 02:38:52
Local clock offset: 0.048 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-07 04:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.36 Mbit/s
95th percentile per-packet one-way delay: 59.750 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 99.36 Mbit/s
95th percentile per-packet one-way delay: 59.750 ms
Loss rate: 0.01%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 02:58:43
End at: 2018-06-07 02:59:13
Local clock offset: -0.023 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-07 04:46:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.84 Mbit/s
95th percentile per-packet one-way delay: 62.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.84 Mbit/s
95th percentile per-packet one-way delay: 62.245 ms
Loss rate: 0.00%
Run 9: Report of TCP Vegas — Data Link

![Graph of throughput vs. time for flow 1 ingress and egress.](image1)

![Graph of per-packet one-way delay vs. time for flow 1.](image2)

Flow 1 (95th percentile 62.24 ms)
Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 03:19:01
End at: 2018-06-07 03:19:31
Local clock offset: -0.015 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-07 04:46:16
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 145.99 Mbit/s
  95th percentile per-packet one-way delay: 59.752 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 145.99 Mbit/s
  95th percentile per-packet one-way delay: 59.752 ms
  Loss rate: 0.00%
Run 10: Report of TCP Vegas — Data Link

![Graph showing throughput over time with two lines indicating ingress and egress traffic with annotations for mean speeds.]

![Graph showing round-trip time over time with annotations for the 95th percentile delay.]
Run 1: Statistics of Verus

Start at: 2018-06-07 00:14:22
End at: 2018-06-07 00:14:52
Local clock offset: 0.309 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-07 04:48:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.16 Mbit/s
95th percentile per-packet one-way delay: 161.997 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 246.16 Mbit/s
95th percentile per-packet one-way delay: 161.997 ms
Loss rate: 1.05%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-06-07 00:34:50
End at: 2018-06-07 00:35:20
Local clock offset: -0.062 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-07 04:48:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.90 Mbit/s
95th percentile per-packet one-way delay: 103.859 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 200.90 Mbit/s
95th percentile per-packet one-way delay: 103.859 ms
Loss rate: 2.12%
Run 2: Report of Verus — Data Link

![Graph showing throughput over time for two flows: Flow 1 ingress (mean 205.25 Mbit/s) and Flow 1 egress (mean 200.99 Mbit/s).]

![Graph showing per packet one way delay for Flow 1 with a 95th percentile of 103.86 ms.]
Run 3: Statistics of Verus

Start at: 2018-06-07 00:54:53
End at: 2018-06-07 00:55:23
Local clock offset: 0.001 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-07 04:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.94 Mbit/s
95th percentile per-packet one-way delay: 83.362 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 278.94 Mbit/s
95th percentile per-packet one-way delay: 83.362 ms
Loss rate: 0.73%
Run 3: Report of Verus — Data Link

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

- Flow 1 ingress (mean 281.01 Mbit/s)
- Flow 1 egress (mean 278.94 Mbit/s)

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

- Flow 1 (95th percentile 83.36 ms)
Run 4: Statistics of Verus

Start at: 2018-06-07 01:15:26
End at: 2018-06-07 01:15:56
Local clock offset: 0.019 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 04:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.05 Mbit/s
95th percentile per-packet one-way delay: 84.040 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 249.05 Mbit/s
95th percentile per-packet one-way delay: 84.040 ms
Loss rate: 0.37%
Run 4: Report of Verus — Data Link

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

*Flow 1 ingress (mean 250.01 Mbit/s) — Flow 1 egress (mean 249.05 Mbit/s)*

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

*Flow 1 (95th percentile 84.04 ms)*
Run 5: Statistics of Verus

Start at: 2018-06-07 01:35:58
End at: 2018-06-07 01:36:28
Local clock offset: -0.064 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-07 04:49:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.27 Mbit/s
95th percentile per-packet one-way delay: 93.341 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 226.27 Mbit/s
95th percentile per-packet one-way delay: 93.341 ms
Loss rate: 0.90%
Run 5: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 228.35 Mbit/s)**
- **Flow 1 egress (mean 226.27 Mbit/s)**

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

- **Flow 1 (95th percentile 93.34 ms)**
Run 6: Statistics of Verus

Start at: 2018-06-07 01:56:22
End at: 2018-06-07 01:56:52
Local clock offset: -0.095 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 04:49:34
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 221.28 Mbit/s
  95th percentile per-packet one-way delay: 140.437 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 221.28 Mbit/s
  95th percentile per-packet one-way delay: 140.437 ms
  Loss rate: 0.26%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-07 02:16:52
End at: 2018-06-07 02:17:22
Local clock offset: 0.387 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 04:50:37
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 248.45 Mbit/s
  95th percentile per-packet one-way delay: 100.753 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 248.45 Mbit/s
  95th percentile per-packet one-way delay: 100.753 ms
  Loss rate: 0.09%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-06-07 02:37:06
End at: 2018-06-07 02:37:36
Local clock offset: 0.015 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-06-07 04:50:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.91 Mbit/s
95th percentile per-packet one-way delay: 84.466 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 169.91 Mbit/s
95th percentile per-packet one-way delay: 84.466 ms
Loss rate: 0.56%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-06-07 02:57:23
End at: 2018-06-07 02:57:53
Local clock offset: 0.02 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-07 04:51:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.94 Mbit/s
95th percentile per-packet one-way delay: 125.463 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 231.94 Mbit/s
95th percentile per-packet one-way delay: 125.463 ms
Loss rate: 1.89%
Run 9: Report of Verus — Data Link

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

Flow 1 ingress (mean 236.43 Mbit/s)  
Flow 1 egress (mean 231.94 Mbit/s)

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

Flow 1 (95th percentile 125.46 ms)
Run 10: Statistics of Verus

Start at: 2018-06-07 03:17:40
End at: 2018-06-07 03:18:10
Local clock offset: -0.011 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 04:52:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.29 Mbit/s
95th percentile per-packet one-way delay: 97.353 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 248.29 Mbit/s
95th percentile per-packet one-way delay: 97.353 ms
Loss rate: 2.43%
Run 10: Report of Verus — Data Link

![Graph of Throughput and Delay over Time](image)

- **Flow 1 ingress** (mean 254.46 Mbit/s)
- **Flow 1 egress** (mean 248.29 Mbit/s)

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

- **Flow 1** (95th percentile 97.35 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 00:11:36
End at: 2018-06-07 00:12:06
Local clock offset: -0.042 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-07 04:52:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.16 Mbit/s
95th percentile per-packet one-way delay: 51.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.16 Mbit/s
95th percentile per-packet one-way delay: 51.472 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 229.16 Mbit/s)  Flow 1 egress (mean 229.16 Mbit/s)

Flow 1 (95th percentile 51.47 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 00:31:59
End at: 2018-06-07 00:32:29
Local clock offset: -0.064 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 04:54:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.67 Mbit/s
95th percentile per-packet one-way delay: 65.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 309.67 Mbit/s
95th percentile per-packet one-way delay: 65.487 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

![Graph of Throughput (Mbps) vs Time (s)](image1)
- Flow 1 ingress (mean 309.68 Mbps)
- Flow 1 egress (mean 309.67 Mbps)

![Graph of Per packet one way delay (ms) vs Time (s)](image2)
- Flow 1 (95th percentile 65.49 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 00:52:06
End at: 2018-06-07 00:52:36
Local clock offset: -0.025 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-07 04:54:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.07 Mbit/s
95th percentile per-packet one-way delay: 62.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.07 Mbit/s
95th percentile per-packet one-way delay: 62.033 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 01:12:34
End at: 2018-06-07 01:13:04
Local clock offset: 0.011 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-07 04:55:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.34 Mbit/s
95th percentile per-packet one-way delay: 61.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.34 Mbit/s
95th percentile per-packet one-way delay: 61.776 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Throughput Graph]

![Packet Delay Graph]
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 01:33:04
End at: 2018-06-07 01:33:34
Local clock offset: -0.034 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-07 04:55:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.67 Mbit/s
95th percentile per-packet one-way delay: 55.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 328.67 Mbit/s
95th percentile per-packet one-way delay: 55.112 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

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

Flow 1 ingress (mean 328.67 Mbit/s)  Flow 1 egress (mean 328.67 Mbit/s)

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

Flow 1 (95th percentile 55.11 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 01:53:27
End at: 2018-06-07 01:53:57
Local clock offset: -0.096 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-07 04:56:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.00 Mbit/s
95th percentile per-packet one-way delay: 71.625 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 346.00 Mbit/s
95th percentile per-packet one-way delay: 71.625 ms
Loss rate: 0.23%
Run 6: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 346.81 Mbit/s)
- Flow 1 egress (mean 346.00 Mbit/s)

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

- Flow 1 (95th percentile 71.62 ms)
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 02:14:02
End at: 2018-06-07 02:14:32
Local clock offset: 0.007 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-07 04:56:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.10 Mbit/s
95th percentile per-packet one-way delay: 121.495 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 340.10 Mbit/s
95th percentile per-packet one-way delay: 121.495 ms
Loss rate: 0.68%
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 02:34:17
End at: 2018-06-07 02:34:47
Local clock offset: 0.058 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-07 04:56:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 333.01 Mbit/s
  95th percentile per-packet one-way delay: 125.032 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 333.01 Mbit/s
  95th percentile per-packet one-way delay: 125.032 ms
  Loss rate: 0.06%
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 02:54:34
End at: 2018-06-07 02:55:04
Local clock offset: -0.005 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-07 04:56:56
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 287.19 Mbit/s
  95th percentile per-packet one-way delay: 53.629 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 287.19 Mbit/s
  95th percentile per-packet one-way delay: 53.629 ms
  Loss rate: 0.00%
Run 9: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 287.20 Mbit/s)
- Flow 1 egress (mean 287.19 Mbit/s)

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

- Flow 1 (95th percentile 53.63 ms)
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 03:14:52
End at: 2018-06-07 03:15:22
Local clock offset: 0.38 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.59 Mbit/s
95th percentile per-packet one-way delay: 52.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.59 Mbit/s
95th percentile per-packet one-way delay: 52.982 ms
Loss rate: 0.00%
Run 10: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 267.59 Mbps)
- Flow 1 egress (mean 267.59 Mbps)

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

- Flow 1 (95th percentile 52.98 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 00:00:16
End at: 2018-06-07 00:00:46
Local clock offset: -0.014 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.95 Mbit/s
  95th percentile per-packet one-way delay: 50.405 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.95 Mbit/s
  95th percentile per-packet one-way delay: 50.405 ms
  Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 0.95 Mbit/s)
- Flow 1 egress (mean 0.95 Mbit/s)

![Graph showing packet delay over time.]

- Flow 1 (95th percentile 50.41 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-06-07 00:20:37
End at: 2018-06-07 00:21:07
Local clock offset: 0.31 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 50.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 50.112 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 1.97 Mbit/s)**
- **Flow 1 egress (mean 1.97 Mbit/s)**

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

- **Flow 1 (95th percentile 50.11 ms)**
Run 3: Statistics of WebRTC media

Start at: 2018-06-07 00:40:42
End at: 2018-06-07 00:41:12
Local clock offset: -0.058 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

**Throughput (Mbps):**
- **Flow 1 ingress (mean 1.94 Mbit/s)**
- **Flow 1 egress (mean 1.94 Mbit/s)**

**Packet delay (ms):**
- **Flow 1 (95th percentile 51.18 ms)**
Run 4: Statistics of WebRTC media

Start at: 2018-06-07 01:01:07
End at: 2018-06-07 01:01:37
Local clock offset: -0.025 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.974 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

[Graphs showing throughput and packet delay over time]
Run 5: Statistics of WebRTC media

Start at: 2018-06-07 01:21:42
End at: 2018-06-07 01:22:12
Local clock offset: 0.031 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 49.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 49.347 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graph showing throughput and delay over time](image-url)
Run 6: Statistics of WebRTC media

Start at: 2018-06-07 01:42:07
End at: 2018-06-07 01:42:37
Local clock offset: 0.294 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 50.477 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

![Graph showing throughput and delay over time for WebRTC media]
Run 7: Statistics of WebRTC media

Start at: 2018-06-07 02:02:31
End at: 2018-06-07 02:03:01
Local clock offset: -0.038 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 50.663 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-07 02:22:57
End at: 2018-06-07 02:23:27
Local clock offset: 0.397 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 50.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 50.516 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 2.06 Mbps)
Flow 1 egress (mean 2.06 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 50.52 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-07 02:43:08
End at: 2018-06-07 02:43:38
Local clock offset: 0.005 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 50.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 50.844 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-06-07 03:03:33
End at: 2018-06-07 03:04:03
Local clock offset: -0.018 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-07 04:56:58
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 2.01 Mbit/s
  95th percentile per-packet one-way delay: 50.827 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 2.01 Mbit/s
  95th percentile per-packet one-way delay: 50.827 ms
  Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 2.01 Mbit/s)
- Flow 1 egress (mean 2.01 Mbit/s)

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

- Flow 1 (95th percentile 50.83 ms)