Pantheon Report

Generated at 2018-06-07 05:00:13 (UTC).
Data path: GCE Sydney Ethernet (local) → GCE Tokyo 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 @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfef0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7c3cf
third_party/pantheon-tunnel @ 6f038ed31259d3666f9840f65b82cbe8f464b1b39
third_party/pcc @ 1af958fa0d66d18b623c091a55f8c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8a0d02f92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ec978f3cc4f2
third_party/scream-reproduce @ f099118d1421aa3131bf1ff1964974e1da3b9b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a40648c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96bc7d8c504587f57f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d6e4735770d143a1fa2851
test from GCE Sydney to GCE Tokyo, 10 runs of 30s each per scheme (mean of all runs by scheme)

0 100 200 300 400 500 600 700 800
95th percentile one-way delay (ms)

32 64 128 256
Average throughput (Mbit/s)

0 120 110 100 90 80 70 60 50
95th percentile one-way delay (ms)

test from GCE Sydney to GCE Tokyo, 10 runs of 30s each per scheme...
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s) flow 1</th>
<th>mean 95th-%ile delay (ms) flow 1</th>
<th>mean loss rate (%) flow 1</th>
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<tbody>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>212.17</td>
<td>56.41</td>
<td>0.00</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>143.93</td>
<td>56.53</td>
<td>0.00</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>147.42</td>
<td>57.89</td>
<td>0.00</td>
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<td>FillP</td>
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<td>840.52</td>
<td>125.63</td>
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<td>Indigo</td>
<td>10</td>
<td>213.61</td>
<td>53.63</td>
<td>0.00</td>
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<tr>
<td>LEDBAT</td>
<td>10</td>
<td>31.20</td>
<td>54.44</td>
<td>0.00</td>
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<td>PCC-Allegro</td>
<td>10</td>
<td>575.63</td>
<td>87.61</td>
<td>0.25</td>
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<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>291.38</td>
<td>113.03</td>
<td>0.76</td>
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<td>QUIC Cubic</td>
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<td>67.71</td>
<td>52.83</td>
<td>0.00</td>
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<td>SCRReAM</td>
<td>10</td>
<td>0.21</td>
<td>52.70</td>
<td>0.00</td>
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<tr>
<td>Sprout</td>
<td>10</td>
<td>5.78</td>
<td>54.03</td>
<td>0.00</td>
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<tr>
<td>TaoVA-100x</td>
<td>8</td>
<td>175.79</td>
<td>53.46</td>
<td>0.00</td>
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<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>87.88</td>
<td>54.95</td>
<td>0.00</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>265.78</td>
<td>102.11</td>
<td>0.02</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>408.57</td>
<td>53.50</td>
<td>0.00</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.97</td>
<td>52.79</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-07 00:14:00
End at: 2018-06-07 00:14:30
Local clock offset: -0.038 ms
Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-06-07 03:38:04
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 211.70 Mbit/s
  95th percentile per-packet one-way delay: 58.122 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 211.70 Mbit/s
  95th percentile per-packet one-way delay: 58.122 ms
  Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time for Flow 1, with legend indicating mean ingress and egress flow rates.]
Run 2: Statistics of TCP BBR

Start at: 2018-06-07 00:34:39
End at: 2018-06-07 00:35:09
Local clock offset: -0.244 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-07 03:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.69 Mbit/s
95th percentile per-packet one-way delay: 56.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.69 Mbit/s
95th percentile per-packet one-way delay: 56.387 ms
Loss rate: 0.00%
Run 2: Report of TCP BBR — Data Link

![Graph of Throughput (Mbps) vs Time (s)](image1)
- Flow 1 ingress (mean 209.69 Mbit/s)
- Flow 1 egress (mean 209.69 Mbit/s)

![Graph of Per-packet one-way delay (ms) vs Time (s)](image2)
- Flow 1 (95th percentile 56.39 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-06-07 00:55:07
End at: 2018-06-07 00:55:37
Local clock offset: -0.097 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-07 03:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.34 Mbit/s
95th percentile per-packet one-way delay: 56.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.34 Mbit/s
95th percentile per-packet one-way delay: 56.101 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 4: Statistics of TCP BBR

Start at: 2018-06-07 01:15:35
End at: 2018-06-07 01:16:05
Local clock offset: -0.0 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-06-07 03:38:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.29 Mbit/s
95th percentile per-packet one-way delay: 57.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.29 Mbit/s
95th percentile per-packet one-way delay: 57.215 ms
Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 209.29 Mbit/s)
- Flow 1 egress (mean 209.29 Mbit/s)

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

- Flow 1 (95th percentile 57.22 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-06-07 01:36:19
End at: 2018-06-07 01:36:49
Local clock offset: -0.08 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-07 03:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.57 Mbit/s
95th percentile per-packet one-way delay: 56.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.57 Mbit/s
95th percentile per-packet one-way delay: 56.306 ms
Loss rate: 0.00%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-06-07 01:57:04
End at: 2018-06-07 01:57:34
Local clock offset: 0.06 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-07 03:38:06
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 207.29 Mbit/s
  95th percentile per-packet one-way delay: 56.458 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 207.29 Mbit/s
  95th percentile per-packet one-way delay: 56.458 ms
  Loss rate: 0.00%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-06-07 02:17:18
End at: 2018-06-07 02:17:48
Local clock offset: -0.118 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-06-07 03:38:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.73 Mbit/s
95th percentile per-packet one-way delay: 56.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.73 Mbit/s
95th percentile per-packet one-way delay: 56.095 ms
Loss rate: 0.00%
Run 8: Statistics of TCP BBR

Start at: 2018-06-07 02:37:46
End at: 2018-06-07 02:38:16
Local clock offset: -0.092 ms
Remote clock offset: 0.358 ms

# Below is generated by plot.py at 2018-06-07 03:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.50 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.50 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link

![Throughput (Mbps) Chart]

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

Flow 1 ingress (mean 215.50 Mbit/s)
Flow 1 egress (mean 215.50 Mbit/s)

Flow 1 (95th percentile 53.92 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-07 02:58:19
End at: 2018-06-07 02:58:49
Local clock offset: -0.081 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-06-07 03:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.22 Mbit/s
95th percentile per-packet one-way delay: 57.387 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.22 Mbit/s
95th percentile per-packet one-way delay: 57.387 ms
Loss rate: 0.01%
Run 9: Report of TCP BBR — Data Link

![Throughput Graph](image1)

![Packet Delay Graph](image2)

Flow 1 ingress (mean 222.25 Mbit/s)  Flow 1 egress (mean 222.22 Mbit/s)

Flow 1 (95th percentile 57.39 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-06-07 03:18:29
End at: 2018-06-07 03:18:59
Local clock offset: -0.068 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 03:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.39 Mbit/s
95th percentile per-packet one-way delay: 56.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.39 Mbit/s
95th percentile per-packet one-way delay: 56.091 ms
Loss rate: 0.00%
Run 10: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 217.41 Mbit/s)
- Flow 1 egress (mean 217.39 Mbit/s)

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

- Flow 1 (95th percentile 56.09 ms)
Run 1: Statistics of Copa

Start at: 2018-06-07 00:12:46
End at: 2018-06-07 00:13:16
Local clock offset: 0.038 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-07 03:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.17 Mbit/s
95th percentile per-packet one-way delay: 55.970 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.17 Mbit/s
95th percentile per-packet one-way delay: 55.970 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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[Graph showing throughput and delay over time for data link flows.]

Flow 1 ingress (mean 109.18 Mbit/s)  Flow 1 egress (mean 109.17 Mbit/s)

Flow 1 (95th percentile 55.97 ms)
Run 2: Statistics of Copa

Start at: 2018-06-07 00:33:29
End at: 2018-06-07 00:33:59
Local clock offset: 0.103 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-07 03:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 53.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.47 Mbit/s
95th percentile per-packet one-way delay: 53.393 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-06-07 00:53:57
End at: 2018-06-07 00:54:27
Local clock offset: -0.177 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-07 03:41:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 53.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 53.726 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-07 01:14:13
End at: 2018-06-07 01:14:43
Local clock offset: 0.14 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-07 03:43:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.01 Mbit/s
95th percentile per-packet one-way delay: 60.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.01 Mbit/s
95th percentile per-packet one-way delay: 60.174 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 195.01 Mbit/s)**
- **Flow 1 egress (mean 195.01 Mbit/s)**

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

- **Flow 1 (95th percentile 60.17 ms)**

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Run 5: Statistics of Copa

Start at: 2018-06-07 01:34:50
End at: 2018-06-07 01:35:20
Local clock offset: 0.165 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-07 03:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 284.56 Mbit/s
95th percentile per-packet one-way delay: 59.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 284.56 Mbit/s
95th percentile per-packet one-way delay: 59.746 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 284.59 Mbit/s)
- Flow 1 egress (mean 284.56 Mbit/s)

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

- Flow 1 (95th percentile 59.75 ms)
Run 6: Statistics of Copa

Start at: 2018-06-07 01:55:43
End at: 2018-06-07 01:56:13
Local clock offset: 0.132 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-07 03:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.22 Mbit/s
95th percentile per-packet one-way delay: 58.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.22 Mbit/s
95th percentile per-packet one-way delay: 58.811 ms
Loss rate: 0.00%
Run 6: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 199.30 Mbit/s)**
- **Flow 1 egress (mean 199.22 Mbit/s)**
Run 7: Statistics of Copa

Start at: 2018-06-07 02:16:08
End at: 2018-06-07 02:16:38
Local clock offset: −0.381 ms
Remote clock offset: 0.084 ms

# Below is generated by plot.py at 2018-06-07 03:46:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.52 Mbit/s
95th percentile per-packet one-way delay: 53.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.52 Mbit/s
95th percentile per-packet one-way delay: 53.501 ms
Loss rate: 0.00%
Run 7: Report of Copa — Data Link

![Throughput Graph](Image)

![Delay Graph](Image)

- Flow 1 ingress (mean 62.52 Mbit/s)
- Flow 1 egress (mean 62.52 Mbit/s)

- Flow 1 (95th percentile 53.50 ms)
Run 8: Statistics of Copa

Start at: 2018-06-07 02:36:10
End at: 2018-06-07 02:36:40
Local clock offset: -0.171 ms
Remote clock offset: 0.122 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.26 Mbit/s
95th percentile per-packet one-way delay: 62.479 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 360.26 Mbit/s
95th percentile per-packet one-way delay: 62.479 ms
Loss rate: 0.02%
Run 8: Report of Copa — Data Link
Run 9: Statistics of Copa

Start at: 2018-06-07 02:57:09
End at: 2018-06-07 02:57:39
Local clock offset: -0.06 ms
Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 53.528 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 53.528 ms
Loss rate: 0.00%
Run 9: Report of Copa — Data Link
Run 10: Statistics of Copa

Start at: 2018-06-07 03:17:19
End at: 2018-06-07 03:17:49
Local clock offset: -0.198 ms
Remote clock offset: 0.397 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 56.71 Mbit/s
  95th percentile per-packet one-way delay: 54.013 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 56.71 Mbit/s
  95th percentile per-packet one-way delay: 54.013 ms
  Loss rate: 0.00%
Run 10: Report of Copa — Data Link

![Graphs showing data link performance metrics for flow 1 ingress and egress.]
Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 00:17:59
End at: 2018-06-07 00:18:29
Local clock offset: -0.089 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.52 Mbit/s
95th percentile per-packet one-way delay: 59.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.52 Mbit/s
95th percentile per-packet one-way delay: 59.344 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

![Graph of throughput and per-packet one-way delay over time with labels for flow ingress and egress.

Flow 1 ingress (mean 170.54 Mbit/s)
Flow 1 egress (mean 170.52 Mbit/s)

Flow 1 (95th percentile 59.34 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 00:38:37
End at: 2018-06-07 00:39:07
Local clock offset: -0.154 ms
Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.35 Mbit/s
95th percentile per-packet one-way delay: 59.592 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 146.35 Mbit/s
95th percentile per-packet one-way delay: 59.592 ms
Loss rate: 0.01%
Run 2: Report of TCP Cubic — Data Link

![Graph of TCP Cubic Data Link]

- Flow 1 ingress (mean 146.37 Mbit/s)
- Flow 1 egress (mean 146.35 Mbit/s)

![Graph of TCP Cubic Data Link]

- Flow 1 (95th percentile 59.59 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 00:59:03
End at: 2018-06-07 00:59:33
Local clock offset: 0.099 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.19 Mbit/s
95th percentile per-packet one-way delay: 56.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 128.19 Mbit/s
95th percentile per-packet one-way delay: 56.343 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 01:19:33
End at: 2018-06-07 01:20:03
Local clock offset: -0.154 ms
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.06 Mbit/s
95th percentile per-packet one-way delay: 57.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.06 Mbit/s
95th percentile per-packet one-way delay: 57.910 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

![Graph of Throughput and Round-Trip Time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 152.10 Mbit/s)
  - Flow 1 egress (mean 152.06 Mbit/s)

- **Round-Trip Time (ms):**
  - Flow 1 (95th percentile 57.91 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 01:40:18  
End at: 2018-06-07 01:40:48  
Local clock offset: -0.244 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-06-07 03:50:03  
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 170.06 Mbit/s  
  95th percentile per-packet one-way delay: 56.504 ms  
  Loss rate: 0.00%  
-- Flow 1:
  Average throughput: 170.06 Mbit/s  
  95th percentile per-packet one-way delay: 56.504 ms  
  Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 02:01:00
End at: 2018-06-07 02:01:30
Local clock offset: -0.097 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.52 Mbit/s
95th percentile per-packet one-way delay: 59.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.52 Mbit/s
95th percentile per-packet one-way delay: 59.186 ms
Loss rate: 0.00%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-06-07 02:21:17
End at: 2018-06-07 02:21:47
Local clock offset: -0.245 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.52 Mbit/s
95th percentile per-packet one-way delay: 58.219 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.52 Mbit/s
95th percentile per-packet one-way delay: 58.219 ms
Loss rate: 0.00%
Run 7: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 154.54 Mbit/s)
- Flow 1 egress (mean 154.52 Mbit/s)

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

- Flow 1 (95th percentile 58.22 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-06-07 02:41:47
End at: 2018-06-07 02:42:17
Local clock offset: 0.2 ms
Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.28 Mbit/s
95th percentile per-packet one-way delay: 54.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.28 Mbit/s
95th percentile per-packet one-way delay: 54.185 ms
Loss rate: 0.00%
Run 8: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 112.29 Mbit/s)
- Flow 1 egress (mean 112.28 Mbit/s)

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

- Flow 1 (95th percentile 54.19 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 03:02:18
End at: 2018-06-07 03:02:49
Local clock offset: 0.072 ms
Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.59 Mbit/s
95th percentile per-packet one-way delay: 58.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.59 Mbit/s
95th percentile per-packet one-way delay: 58.951 ms
Loss rate: 0.00%
Run 9: Report of TCP Cubic — Data Link

![Graph showing throughput and delay over time for TCP Cubic flow with ingress and egress rates of 149.59 Mbps.]

- Flow 1 ingress (mean 149.59 Mbit/s)
- Flow 1 egress (mean 149.59 Mbit/s)

![Graph showing packet delay distribution with 95th percentile at 58.95 ms.]
Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 03:22:27
End at: 2018-06-07 03:22:57
Local clock offset: -0.02 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-06-07 03:50:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.10 Mbit/s
95th percentile per-packet one-way delay: 58.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.10 Mbit/s
95th percentile per-packet one-way delay: 58.707 ms
Loss rate: 0.00%
Run 10: Report of TCP Cubic — Data Link

[Graphs showing throughput and packet delay over time]
Run 1: Statistics of FillP

Start at: 2018-06-07 00:00:14
End at: 2018-06-07 00:00:44
Local clock offset: -0.372 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-06-07 04:01:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 760.81 Mbit/s
95th percentile per-packet one-way delay: 118.986 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 760.81 Mbit/s
95th percentile per-packet one-way delay: 118.986 ms
Loss rate: 2.29%
Run 1: Report of FillP — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 778.74 Mbit/s)  Flow 1 egress (mean 760.81 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 118.99 ms)
Run 2: Statistics of FillP

Start at: 2018-06-07 00:20:18
End at: 2018-06-07 00:20:48
Local clock offset: 0.138 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-07 04:02:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 817.14 Mbit/s
95th percentile per-packet one-way delay: 125.503 ms
Loss rate: 3.24%
-- Flow 1:
Average throughput: 817.14 Mbit/s
95th percentile per-packet one-way delay: 125.503 ms
Loss rate: 3.24%
Run 2: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 844.61 Mbps)  Flow 1 egress (mean 817.14 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 125.50 ms)
Run 3: Statistics of FillP

Start at: 2018-06-07 00:40:55
End at: 2018-06-07 00:41:25
Local clock offset: -0.186 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-07 04:02:58
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 872.60 Mbit/s
  95th percentile per-packet one-way delay: 119.613 ms
  Loss rate: 2.34%
-- Flow 1:
  Average throughput: 872.60 Mbit/s
  95th percentile per-packet one-way delay: 119.613 ms
  Loss rate: 2.34%
Run 3: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

Flow 1 ingress (mean 893.62 Mbps)  Flow 1 egress (mean 872.60 Mbps)

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

Flow 1 (95th percentile 119.61 ms)
Run 4: Statistics of FillP

Start at: 2018-06-07 01:01:20
End at: 2018-06-07 01:01:50
Local clock offset: 0.012 ms
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2018-06-07 04:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 864.79 Mbit/s
95th percentile per-packet one-way delay: 120.906 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 864.79 Mbit/s
95th percentile per-packet one-way delay: 120.906 ms
Loss rate: 2.74%
Run 4: Report of FillP — Data Link

![Graph of Throughput and Packet Delay](image_url)
Run 5: Statistics of FillP

Start at: 2018-06-07 01:21:51
End at: 2018-06-07 01:22:21
Local clock offset: -0.277 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 04:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 850.41 Mbit/s
95th percentile per-packet one-way delay: 151.935 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 850.41 Mbit/s
95th percentile per-packet one-way delay: 151.935 ms
Loss rate: 2.17%
Run 5: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 869.24 Mbps)
- Flow 1 egress (mean 850.41 Mbps)

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

- Flow 1 (95th percentile 151.94 ms)
Run 6: Statistics of FillP

Start at: 2018-06-07 01:42:37
End at: 2018-06-07 01:43:07
Local clock offset: -0.059 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 04:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 891.95 Mbit/s
95th percentile per-packet one-way delay: 117.656 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 891.95 Mbit/s
95th percentile per-packet one-way delay: 117.656 ms
Loss rate: 1.35%
Run 6: Report of FillP — Data Link

![Graph showing throughput (Mbps) over time](image)

- Flow 1 ingress (mean 904.16 Mbps)
- Flow 1 egress (mean 891.95 Mbps)

![Graph showing packet one-way delay (ms) over time](image)

- Flow 1 (95th percentile 117.66 ms)
Run 7: Statistics of FillP

Start at: 2018-06-07 02:03:18
End at: 2018-06-07 02:03:48
Local clock offset: -0.165 ms
Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-06-07 04:05:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 824.91 Mbit/s
95th percentile per-packet one-way delay: 124.795 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 824.91 Mbit/s
95th percentile per-packet one-way delay: 124.795 ms
Loss rate: 4.20%
Run 7: Report of FillP — Data Link

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

- Flow 1 ingress (mean 861.10 Mbps)
- Flow 1 egress (mean 824.91 Mbps)

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

- Flow 1 (95th percentile 124.80 ms)
Run 8: Statistics of FillP

Start at: 2018-06-07 02:23:35
End at: 2018-06-07 02:24:05
Local clock offset: 0.185 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-06-07 04:09:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 890.48 Mbit/s
95th percentile per-packet one-way delay: 124.866 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 890.48 Mbit/s
95th percentile per-packet one-way delay: 124.866 ms
Loss rate: 1.33%
Run 8: Report of FillP — Data Link

![Graph showing throughput and packet delay over time](image)
Run 9: Statistics of FillP

Start at: 2018-06-07 02:44:03
End at: 2018-06-07 02:44:33
Local clock offset: 0.16 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2018-06-07 04:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 807.36 Mbit/s
95th percentile per-packet one-way delay: 128.308 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 807.36 Mbit/s
95th percentile per-packet one-way delay: 128.308 ms
Loss rate: 3.97%
Run 9: Report of FillP — Data Link

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

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

- Flow 1 Ingress (mean 840.72 Mbps)
- Flow 1 Egress (mean 807.36 Mbps)

Flow 1 (95th percentile 128.31 ms)
Run 10: Statistics of FillP

Start at: 2018-06-07 03:04:37
End at: 2018-06-07 03:05:07
Local clock offset: 0.17 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
    -- Total of 1 flow:
    Average throughput: 824.78 Mbit/s
    95th percentile per-packet one-way delay: 123.759 ms
    Loss rate: 2.67%
    -- Flow 1:
    Average throughput: 824.78 Mbit/s
    95th percentile per-packet one-way delay: 123.759 ms
    Loss rate: 2.67%
Run 10: Report of FillP — Data Link
Run 1: Statistics of Indigo

Start at: 2018-06-07 00:16:42
End at: 2018-06-07 00:17:12
Local clock offset: 0.12 ms
Remote clock offset: 0.207 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.48 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.48 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 190.46 Mbit/s)**
- **Flow 1 egress (mean 190.48 Mbit/s)**

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

- **Flow 1 (95th percentile 53.60 ms)**
Run 2: Statistics of Indigo

Start at: 2018-06-07 00:37:18
End at: 2018-06-07 00:37:48
Local clock offset: -0.084 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.27 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.27 Mbit/s
95th percentile per-packet one-way delay: 53.754 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2018-06-07 00:57:46
End at: 2018-06-07 00:58:16
Local clock offset: 0.04 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 194.59 Mbit/s
  95th percentile per-packet one-way delay: 53.542 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 194.59 Mbit/s
  95th percentile per-packet one-way delay: 53.542 ms
  Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 194.61 Mbit/s)
- Flow 1 egress (mean 194.59 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 53.54 ms)
Run 4: Statistics of Indigo

Start at: 2018-06-07 01:18:14
End at: 2018-06-07 01:18:44
Local clock offset: 0.094 ms
Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.16 Mbit/s
95th percentile per-packet one-way delay: 53.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.16 Mbit/s
95th percentile per-packet one-way delay: 53.752 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 226.18 Mbps)
- Flow 1 egress (mean 226.16 Mbps)

Graph 2: Per-packet round trip delay (ms) vs Time (s)

- Flow 1 (95th percentile 53.75 ms)
Run 5: Statistics of Indigo

Start at: 2018-06-07 01:39:00
End at: 2018-06-07 01:39:30
Local clock offset: -0.231 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.68 Mbit/s
95th percentile per-packet one-way delay: 53.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.68 Mbit/s
95th percentile per-packet one-way delay: 53.779 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

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

- **Flow 1 ingress** (mean 202.68 Mbit/s)
- **Flow 1 egress** (mean 202.68 Mbit/s)

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

- **Flow 1 (99th percentile 53.78 ms)**
Run 6: Statistics of Indigo

Start at: 2018-06-07 01:59:44
End at: 2018-06-07 02:00:14
Local clock offset: -0.204 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.24 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.24 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 0.00%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-07 02:19:58
End at: 2018-06-07 02:20:28
Local clock offset: -0.127 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.12 Mbit/s
95th percentile per-packet one-way delay: 53.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.12 Mbit/s
95th percentile per-packet one-way delay: 53.445 ms
Loss rate: 0.00%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-07 02:40:27
End at: 2018-06-07 02:40:57
Local clock offset: -0.334 ms
Remote clock offset: 0.376 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.65 Mbit/s
95th percentile per-packet one-way delay: 53.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.65 Mbit/s
95th percentile per-packet one-way delay: 53.918 ms
Loss rate: 0.00%
Run 8: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 240.65 Mbit/s)
- Flow 1 egress (mean 240.65 Mbit/s)

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

- Flow 1 (95th percentile 53.92 ms)
Run 9: Statistics of Indigo

Start at: 2018-06-07 03:00:59  
End at: 2018-06-07 03:01:29  
Local clock offset: ~0.327 ms  
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.48 Mbit/s  
95th percentile per-packet one-way delay: 53.644 ms  
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.48 Mbit/s  
95th percentile per-packet one-way delay: 53.644 ms  
Loss rate: 0.00%
Run 9: Report of Indigo — Data Link

![Graph showing throughput and packet delay over time]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 228.46 Mbps)
  - Flow 1 egress (mean 228.48 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 53.64 ms)
Run 10: Statistics of Indigo

Start at: 2018-06-07 03:21:08  
End at: 2018-06-07 03:21:38  
Local clock offset: 0.187 ms  
Remote clock offset: -0.098 ms  

# Below is generated by plot.py at 2018-06-07 04:19:22  
# Datalink statistics  
  -- Total of 1 flow:  
  Average throughput: 226.38 Mbit/s  
  95th percentile per-packet one-way delay: 53.275 ms  
  Loss rate: 0.00%  
  -- Flow 1:  
  Average throughput: 226.38 Mbit/s  
  95th percentile per-packet one-way delay: 53.275 ms  
  Loss rate: 0.00%
Run 10: Report of Indigo — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 226.41 Mbit/s)  Flow 1 egress (mean 226.38 Mbit/s)

Per-packet core latency (ms)

Time (s)

Flow 1 (95th percentile 53.27 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-06-07 00:10:32
End at: 2018-06-07 00:11:02
Local clock offset: -0.104 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-06-07 00:31:15
End at: 2018-06-07 00:31:45
Local clock offset: -0.444 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 30.32 Mbit/s
  95th percentile per-packet one-way delay: 55.633 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 30.32 Mbit/s
  95th percentile per-packet one-way delay: 55.633 ms
  Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-06-07 00:51:44
End at: 2018-06-07 00:52:14
Local clock offset: 0.039 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 54.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 54.800 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-06-07 01:12:00
End at: 2018-06-07 01:12:30
Local clock offset: 0.315 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-06-07 01:32:37  
End at: 2018-06-07 01:33:07  
Local clock offset: 0.399 ms  
Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2018-06-07 04:19:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.36 Mbit/s  
95th percentile per-packet one-way delay: 53.945 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.36 Mbit/s  
95th percentile per-packet one-way delay: 53.945 ms  
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

Throughput (Mbps) vs Time (s)

- Flow 1 ingress (mean 33.36 Mbit/s)
- Flow 1 egress (mean 33.36 Mbit/s)

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

Per-packet round trip delay (ms) vs Time (s)

- Flow 1 (95th percentile 53.95 ms)
Run 6: Statistics of LEDBAT

Start at: 2018-06-07 01:53:30
End at: 2018-06-07 01:54:00
Local clock offset: 0.134 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 54.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 54.376 ms
Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link

---

Graph 1:
- **Y-axis:** Throughput (Mbps)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 ingress (mean 27.92 Mbps)
  - Flow 1 egress (mean 27.92 Mbps)

Graph 2:
- **Y-axis:** Per packet one way delay (ms)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 (95th percentile 54.38 ms)
Run 7: Statistics of LEDBAT

Start at: 2018-06-07 02:13:54
End at: 2018-06-07 02:14:25
Local clock offset: -0.188 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 54.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 54.332 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link

![Graph showing throughput over time with two lines representing different data flows.]

![Graph showing packet delay over time with a line representing a flow and a marker indicating the 95th percentile delay.]

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Run 8: Statistics of LEDBAT

Start at: 2018-06-07 02:33:57
End at: 2018-06-07 02:34:27
Local clock offset: -0.092 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 54.548 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 54.548 ms
Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-06-07 02:54:55
End at: 2018-06-07 02:55:25
Local clock offset: -0.286 ms
Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 30.53 Mbit/s
  95th percentile per-packet one-way delay: 54.833 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 30.53 Mbit/s
  95th percentile per-packet one-way delay: 54.833 ms
  Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

![Graph of data link performance]

- Flow 1 ingress (mean 30.53 Mbit/s)
- Flow 1 egress (mean 30.53 Mbit/s)

![Graph of packet loss rate]

- Flow 1 (95th percentile 54.83 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-06-07 03:15:05
End at: 2018-06-07 03:15:35
Local clock offset: 0.026 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-07 04:19:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress with mean 31.34 Mbit/s.](image1.png)

![Graph showing per-packet round-trip time delay over time for Flow 1 with 95th percentile 53.62 ms.](image2.png)
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 00:15:16
End at: 2018-06-07 00:15:46
Local clock offset: 0.23 ms
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-06-07 04:20:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 583.52 Mbit/s
95th percentile per-packet one-way delay: 62.714 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 583.52 Mbit/s
95th percentile per-packet one-way delay: 62.714 ms
Loss rate: 0.16%
Run 1: Report of PCC-Allegro — Data Link

- Throughput (Mbps)
  - Flow 1 ingress (mean 584.47 Mbit/s)
  - Flow 1 egress (mean 583.52 Mbit/s)

- Packet delay (ms)
  - Flow 1 (95th percentile 62.71 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 00:35:54
End at: 2018-06-07 00:36:24
Local clock offset: 0.173 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-06-07 04:20:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 571.80 Mbit/s
95th percentile per-packet one-way delay: 74.955 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 571.80 Mbit/s
95th percentile per-packet one-way delay: 74.955 ms
Loss rate: 0.28%
Run 2: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress** (mean 573.43 Mbit/s)
- **Flow 1 egress** (mean 571.80 Mbit/s)

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

- **Flow 1 (95th percentile 74.95 ms)**
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 00:56:22
End at: 2018-06-07 00:56:52
Local clock offset: 0.026 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-07 04:20:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 557.14 Mbit/s
95th percentile per-packet one-way delay: 76.704 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 557.14 Mbit/s
95th percentile per-packet one-way delay: 76.704 ms
Loss rate: 0.36%
Run 3: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingress and egress, with mean rates 559.21 Mbit/s and 557.14 Mbit/s respectively.]

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Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 01:16:49
End at: 2018-06-07 01:17:20
Local clock offset: -0.205 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 04:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.85 Mbit/s
95th percentile per-packet one-way delay: 77.289 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 567.85 Mbit/s
95th percentile per-packet one-way delay: 77.289 ms
Loss rate: 0.13%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 01:37:35
End at: 2018-06-07 01:38:05
Local clock offset: -0.172 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-07 04:21:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 578.61 Mbit/s
95th percentile per-packet one-way delay: 114.340 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 578.61 Mbit/s
95th percentile per-packet one-way delay: 114.340 ms
Loss rate: 0.53%
Run 5: Report of PCC-Allegro — Data Link

Throughput (Mbit/s)

- Flow 1 ingress (mean 581.69 Mbit/s)
- Flow 1 egress (mean 578.61 Mbit/s)

Packet delay (ms)

- Flow 1 (95th percentile 114.34 ms)
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 01:58:19
End at: 2018-06-07 01:58:49
Local clock offset: -0.011 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2018-06-07 04:21:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.09 Mbit/s
95th percentile per-packet one-way delay: 67.969 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 568.09 Mbit/s
95th percentile per-packet one-way delay: 67.969 ms
Loss rate: 0.29%
Run 6: Report of PCC-Allegro — Data Link

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

![Graph showing packet delay over time with one line for flow 1 (95th percentile 67.97 ms).]
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 02:18:32
End at: 2018-06-07 02:19:02
Local clock offset: -0.143 ms
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2018-06-07 04:28:13
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 591.46 Mbit/s
  95th percentile per-packet one-way delay: 119.201 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 591.46 Mbit/s
  95th percentile per-packet one-way delay: 119.201 ms
  Loss rate: 0.15%
Run 7: Report of PCC-Allegro — Data Link
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 02:39:01
End at: 2018-06-07 02:39:31
Local clock offset: -0.212 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-06-07 04:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 600.49 Mbit/s
95th percentile per-packet one-way delay: 116.542 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 600.49 Mbit/s
95th percentile per-packet one-way delay: 116.542 ms
Loss rate: 0.22%
Run 8: Report of PCC-Allegro — Data Link

![Graph of Throughput vs Time](image1)

- **Flow 1 ingress (mean 601.80 Mbit/s)**
- **Flow 1 egress (mean 600.49 Mbit/s)**

![Graph of Packet One Way Delay vs Time](image2)

- **Flow 1 (99th percentile 116.54 ms)**
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 02:59:34
End at: 2018-06-07 03:00:04
Local clock offset: 0.011 ms
Remote clock offset: 0.416 ms

# Below is generated by plot.py at 2018-06-07 04:30:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 586.50 Mbit/s
95th percentile per-packet one-way delay: 109.198 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 586.50 Mbit/s
95th percentile per-packet one-way delay: 109.198 ms
Loss rate: 0.20%
Run 9: Report of PCC-Allegro — Data Link
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 03:19:44
End at: 2018-06-07 03:20:14
Local clock offset: -0.353 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-06-07 04:30:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.84 Mbit/s
95th percentile per-packet one-way delay: 57.211 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 550.84 Mbit/s
95th percentile per-packet one-way delay: 57.211 ms
Loss rate: 0.16%
Run 10: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 551.79 Mbit/s)
- Flow 1 egress (mean 550.84 Mbit/s)

![Graph 2: ping vs Time](image2)

- Flow 1 (95th percentile 57.21 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 00:05:35
End at: 2018-06-07 00:06:05
Local clock offset: -0.033 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-07 04:30:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.93 Mbit/s
95th percentile per-packet one-way delay: 53.360 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.93 Mbit/s
95th percentile per-packet one-way delay: 53.360 ms
Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 00:25:54
End at: 2018-06-07 00:26:24
Local clock offset: 0.153 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-07 04:32:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.58 Mbit/s
95th percentile per-packet one-way delay: 159.600 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 399.58 Mbit/s
95th percentile per-packet one-way delay: 159.600 ms
Loss rate: 2.63%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 00:46:29
End at: 2018-06-07 00:46:59
Local clock offset: 0.134 ms
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-06-07 04:32:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 309.30 Mbit/s
95th percentile per-packet one-way delay: 144.476 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 309.30 Mbit/s
95th percentile per-packet one-way delay: 144.476 ms
Loss rate: 0.12%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 01:06:46
End at: 2018-06-07 01:07:16
Local clock offset: -0.032 ms
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-06-07 04:32:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.68 Mbit/s
95th percentile per-packet one-way delay: 93.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.68 Mbit/s
95th percentile per-packet one-way delay: 93.035 ms
Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link

![Graph showing throughput and packet delay over time for flow 1 with mean 267.68 Mbit/s for ingress and 267.68 Mbit/s for egress.]
Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 01:27:16
End at: 2018-06-07 01:27:47
Local clock offset: -0.368 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 04:38:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.60 Mbit/s
95th percentile per-packet one-way delay: 150.381 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 437.60 Mbit/s
95th percentile per-packet one-way delay: 150.381 ms
Loss rate: 2.60%
Run 5: Report of PCC-Expr — Data Link
Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 01:48:14
End at: 2018-06-07 01:48:44
Local clock offset: -0.074 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-07 04:39:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.02 Mbit/s
95th percentile per-packet one-way delay: 141.461 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 327.02 Mbit/s
95th percentile per-packet one-way delay: 141.461 ms
Loss rate: 0.83%
Run 6: Report of PCC-Expr — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 329.75 Mbit/s)
- Flow 1 egress (mean 327.02 Mbit/s)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 02:08:49
End at: 2018-06-07 02:09:19
Local clock offset: -0.082 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2018-06-07 04:39:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.98 Mbit/s
95th percentile per-packet one-way delay: 60.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.98 Mbit/s
95th percentile per-packet one-way delay: 60.264 ms
Loss rate: 0.00%
Run 7: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 222.97 Mbit/s)
- Flow 1 egress (mean 222.98 Mbit/s)

![Graph showing packet delay time.]

- Flow 1 (95th percentile 60.26 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 02:28:53
End at: 2018-06-07 02:29:23
Local clock offset: -0.402 ms
Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2018-06-07 04:39:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.65 Mbit/s
95th percentile per-packet one-way delay: 77.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.65 Mbit/s
95th percentile per-packet one-way delay: 77.478 ms
Loss rate: 0.00%
Run 8: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 165.66 Mbit/s)
- Flow 1 egress (mean 165.65 Mbit/s)

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

- Flow 1 (95th percentile 77.48 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 02:49:36
End at: 2018-06-07 02:50:06
Local clock offset: -0.235 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-06-07 04:40:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.88 Mbit/s
95th percentile per-packet one-way delay: 160.925 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 337.88 Mbit/s
95th percentile per-packet one-way delay: 160.925 ms
Loss rate: 1.45%
Run 9: Report of PCC-Expr — Data Link

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

- **Throughput (Mbps)**: The throughput remains stable, with slight variations, peaking at around 400 Mbps.

- **Packet Delay (ms)**: The packet delay varies significantly, with some peaks reaching up to 180 ms. The 95th percentile delay is approximately 160.93 ms.
Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 03:09:51
End at: 2018-06-07 03:10:21
Local clock offset: -0.075 ms
Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.14 Mbit/s
95th percentile per-packet one-way delay: 89.360 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 338.14 Mbit/s
95th percentile per-packet one-way delay: 89.360 ms
Loss rate: 0.00%
Run 10: Report of PCC-Expr — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 338.15 Mbit/s)  Flow 1 egress (mean 338.14 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 89.36 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 00:06:50
End at: 2018-06-07 00:07:20
Local clock offset: -0.063 ms
Remote clock offset: -0.008 ms
Run 1: Report of QUIC Cubic — Data Link

Graph 1: Throughput vs Time
- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)

Graph 2: Per-packet one-way delay vs Time
- Flow 1 (95th percentile 53.06 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 00:27:28
End at: 2018-06-07 00:27:58
Local clock offset: -0.114 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

[Graphs showing throughput and round-trip delay over time]
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 00:47:57
End at: 2018-06-07 00:48:27
Local clock offset: 0.103 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 01:08:13
End at: 2018-06-07 01:08:43
Local clock offset: 0.016 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.48 Mbit/s
95th percentile per-packet one-way delay: 53.139 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

![Graph 1: Throughput (Mbps)]

Flow 1 ingress (mean 73.49 Mbit/s)  Flow 1 egress (mean 73.48 Mbit/s)

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

Flow 1 (95th percentile 53.14 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-07 01:28:50
End at: 2018-06-07 01:29:20
Local clock offset: -0.097 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.68 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.68 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

![Graph showing network throughput over time]

- **Flow 1 ingress (mean 68.68 Mbit/s)**
- **Flow 1 egress (mean 68.68 Mbit/s)**

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

- **Flow 1 (95th percentile 53.43 ms)**
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 01:49:47
End at: 2018-06-07 01:50:17
Local clock offset: -0.377 ms
Remote clock offset: 0.216 ms
Run 6: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet one-way delay vs. Time](image2)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 02:10:11
End at: 2018-06-07 02:10:41
Local clock offset: -0.307 ms
Remote clock offset: 0.155 ms
Run 7: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs Time]

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

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

- **Flow 1 (95th percentile 53.67 ms)**
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 02:30:13
End at: 2018-06-07 02:30:43
Local clock offset: -0.157 ms
Remote clock offset: 0.006 ms
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 02:51:07
End at: 2018-06-07 02:51:37
Local clock offset: -0.219 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.82 Mbit/s
95th percentile per-packet one-way delay: 50.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.82 Mbit/s
95th percentile per-packet one-way delay: 50.324 ms
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 03:11:24
End at: 2018-06-07 03:11:54
Local clock offset: -0.009 ms
Remote clock offset: -0.09 ms
Run 10: Report of QUIC Cubic — Data Link

Graph 1: Throughput (Mbps) vs Time (s)
- Blue line: Flow 1 ingress (mean 0.06 Mbps)
- Red line: Flow 1 egress (mean 0.06 Mbps)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Blue dot: Flow 1 (95th percentile 53.64 ms)
Run 1: Statistics of SCReAM

Start at: 2018-06-07 00:19:13
End at: 2018-06-07 00:19:43
Local clock offset: -0.21 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.940 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

[Two graphs showing throughput and packet delay over time with annotations for flow 1 ingress and egress.]
Run 2: Statistics of SCReAM

Start at: 2018-06-07 00:39:50
End at: 2018-06-07 00:40:20
Local clock offset: 0.183 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.444 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.444 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

Throughput vs. Time

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

Per-packet delay vs. Time

Flow 1 (95th percentile 53.44 ms)
Run 3: Statistics of SCReAM

Start at: 2018-06-07 01:00:15
End at: 2018-06-07 01:00:45
Local clock offset: -0.067 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph of throughput over time for flow 1 ingress and egress, with mean of 0.21 Mbps.]

![Graph of round-trip delay over time for flow 1, with 95th percentile of 53.76 ms.]

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Run 4: Statistics of SCReAM

Start at: 2018-06-07 01:20:46
End at: 2018-06-07 01:21:16
Local clock offset: 0.063 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.271 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.271 ms
  Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-06-07 01:41:31
End at: 2018-06-07 01:42:01
Local clock offset: -0.146 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-06-07 02:02:13
End at: 2018-06-07 02:02:43
Local clock offset: -0.204 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.320 ms
Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 50.32 ms)
Run 7: Statistics of SCReAM

Start at: 2018-06-07 02:22:30
End at: 2018-06-07 02:23:00
Local clock offset: 0.009 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.195 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.195 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link

![Graph of Throughput vs Time]

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)

![Graph of Per-Packet End-to-End Delay vs Time]

- Flow 1 (95th percentile 53.20 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-07 02:42:57
End at: 2018-06-07 02:43:27
Local clock offset: 0.381 ms
Remote clock offset: 0.352 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.353 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

The graphs show the throughput and delay over time for two flows:

1. **Flow 1 ingress (mean 0.22 Mbit/s)**
2. **Flow 1 egress (mean 0.22 Mbit/s)**

Throughput and delay metrics are plotted against time (s). The throughput graph indicates fluctuations in data transfer rates, while the delay graph shows variability in packet delivery times. The plots provide insights into the performance and reliability of the data link during the run.
Run 9: Statistics of SCReAM

Start at: 2018-06-07 03:03:31
End at: 2018-06-07 03:04:01
Local clock offset: -0.093 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)

- Flow 1 (95th percentile 53.80 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-07 03:23:40
End at: 2018-06-07 03:24:10
Local clock offset: 0.203 ms
Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

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

[Graph showing packet delay distribution over time for Flow 1]
Run 1: Statistics of Sprout

Start at: 2018-06-07 00:07:55
End at: 2018-06-07 00:08:25
Local clock offset: -0.114 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 54.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 54.489 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph showing throughput and per-packet round-trip delay](image-url)
Run 2: Statistics of Sprout

Start at: 2018-06-07 00:28:37
End at: 2018-06-07 00:29:07
Local clock offset: 0.138 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-06-07 00:49:06
End at: 2018-06-07 00:49:36
Local clock offset: -0.14 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-06-07 01:09:22
End at: 2018-06-07 01:09:52
Local clock offset: -0.104 ms
Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 53.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 53.965 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

![Graph of throughput and packet delay over time with legend indicating mean values for ingress and egress.]
Run 5: Statistics of Sprout

Start at: 2018-06-07 01:29:59
End at: 2018-06-07 01:30:29
Local clock offset: -0.065 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 54.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 54.421 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 6.69 Mbit/s)**
- **Flow 1 egress (mean 6.68 Mbit/s)**

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

- **Flow 1 (95th percentile 54.42 ms)**
Run 6: Statistics of Sprout

Start at: 2018-06-07 01:50:52
End at: 2018-06-07 01:51:22
Local clock offset: 0.188 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 0.00%
Run 6: Report of Sprout — Data Link

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

![Graph 2: One-way delay vs. Time (ms)]

Flow 1 ingress (mean 5.40 Mbit/s)  
Flow 1 egress (mean 5.40 Mbit/s)
Run 7: Statistics of Sprout

Start at: 2018-06-07 02:11:16
End at: 2018-06-07 02:11:46
Local clock offset: -0.378 ms
Remote clock offset: 0.316 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.84 Mbit/s
95th percentile per-packet one-way delay: 54.224 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-06-07 02:31:18
End at: 2018-06-07 02:31:48
Local clock offset: -0.004 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.00%
Run 8: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]
Run 9: Statistics of Sprout

Start at: 2018-06-07 02:52:17
End at: 2018-06-07 02:52:47
Local clock offset: -0.138 ms
Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 53.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 53.875 ms
Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

![Graph of throughput over time](image1.png)

![Graph of packet round-trip delay over time](image2.png)
Run 10: Statistics of Sprout

Start at: 2018-06-07 03:12:29
End at: 2018-06-07 03:12:59
Local clock offset: -0.012 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 53.621 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 53.621 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link

![Graph showing throughput over time with two lines representing ingress and egress, and another graph showing per-packet round-trip delay over time.](image-url)
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 00:03:00
End at: 2018-06-07 00:03:30
Local clock offset: 0.195 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-07 04:41:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 53.381 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 53.381 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

With regard to the throughput data, Flow 1 demonstrates a peak initial throughput of approximately 100 Mbps, followed by a sustained throughput of about 80 Mbps. This level is maintained for the majority of the data transmission period, signifying a stable data link performance.

The packet delay, as depicted in the lower graph, shows a consistent round-trip delay for Flow 1, with the packet delay not exceeding 50 ms. The data indicates that the network can support real-time applications with minimal latency.
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 00:23:11
End at: 2018-06-07 00:23:41
Local clock offset: 0.186 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-07 04:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.44 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.44 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

---

**Throughput (Mb/s)**

- **Flow 1 ingress (mean 215.46 Mb/s)**
- **Flow 1 egress (mean 215.44 Mb/s)**

---

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

- **Flow 1 (95th percentile 53.55 ms)**
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 00:43:42
End at: 2018-06-07 00:44:12
Local clock offset: -0.362 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-06-07 04:43:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.88 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 241.88 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 01:04:07
End at: 2018-06-07 01:04:37
Local clock offset: 0.132 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-06-07 04:43:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.04 Mbit/s
95th percentile per-packet one-way delay: 53.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.04 Mbit/s
95th percentile per-packet one-way delay: 53.100 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

![Graph of throughput and packet delay over time]

- **Throughput (Mbps)**
  - Time (s): 0 to 30
  - Flow 1 ingress (mean 133.04 Mbps)
  - Flow 1 egress (mean 133.04 Mbps)

- **Per-packet one-way delay (ms)**
  - Time (s): 0 to 30
  - Flow 1 (95th percentile 53.10 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 01:24:41
End at: 2018-06-07 01:25:11
Local clock offset: 0.4 ms
Remote clock offset: -0.395 ms
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 01:45:25
End at: 2018-06-07 01:45:55
Local clock offset: -0.117 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-06-07 04:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.58 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.58 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 247.58 Mbit/s)
- Flow 1 egress (mean 247.58 Mbit/s)

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

- Flow 1 (95th percentile 53.72 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 02:06:04
End at: 2018-06-07 02:06:34
Local clock offset: 0.072 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-06-07 04:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.15 Mbit/s
95th percentile per-packet one-way delay: 53.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.15 Mbit/s
95th percentile per-packet one-way delay: 53.028 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 229.15 Mbit/s)**
- **Flow 1 egress (mean 229.15 Mbit/s)**

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

- **Flow 1 (95th percentile 53.03 ms)**
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 02:26:24
End at: 2018-06-07 02:26:54
Local clock offset: -0.148 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-06-07 04:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.91 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet delay over time]
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 02:46:49
End at: 2018-06-07 02:47:19
Local clock offset: ~0.275 ms
Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.45 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.45 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.00%
Run 9: Report of TaoVA-100x — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress.]
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 03:07:20
End at: 2018-06-07 03:07:50
Local clock offset: -0.116 ms
Remote clock offset: 0.139 ms
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 00:01:48
End at: 2018-06-07 00:02:18
Local clock offset: -0.025 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.02 Mbit/s
95th percentile per-packet one-way delay: 54.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.02 Mbit/s
95th percentile per-packet one-way delay: 54.810 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 00:21:55
End at: 2018-06-07 00:22:25
Local clock offset: -0.166 ms
Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 219.19 Mbit/s
  95th percentile per-packet one-way delay: 60.428 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 219.19 Mbit/s
  95th percentile per-packet one-way delay: 60.428 ms
  Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 00:42:33
End at: 2018-06-07 00:43:03
Local clock offset: -0.058 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.98 Mbit/s
95th percentile per-packet one-way delay: 54.530 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 45.98 Mbps)
  - Flow 1 egress (mean 45.98 Mbps)

- **Packet round-trip delay (ms):**
  - Flow 1 (95th percentile 54.53 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 01:02:59
End at: 2018-06-07 01:03:29
Local clock offset: 0.074 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.06 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

![Graph of throughput over time for Flow 1 ingress (mean 49.06 Mbit/s) and Flow 1 egress (mean 49.06 Mbit/s).]

![Graph of per-packet one-way delay for Flow 1 (95th percentile 54.28 ms).]
Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 01:23:29
End at: 2018-06-07 01:23:59
Local clock offset: -0.202 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.10 Mbit/s
95th percentile per-packet one-way delay: 54.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.10 Mbit/s
95th percentile per-packet one-way delay: 54.688 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 01:44:16
End at: 2018-06-07 01:44:46
Local clock offset: -0.234 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.95 Mbit/s
95th percentile per-packet one-way delay: 54.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.95 Mbit/s
95th percentile per-packet one-way delay: 54.614 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 02:04:56
End at: 2018-06-07 02:05:26
Local clock offset: -0.136 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 52.90 Mbit/s
  95th percentile per-packet one-way delay: 54.088 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 52.90 Mbit/s
  95th percentile per-packet one-way delay: 54.088 ms
  Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

![Graph showing throughput and delay over time]

- Flow 1 ingress (mean 52.90 Mbit/s)
- Flow 1 egress (mean 52.90 Mbit/s)

- Flow 1 (95th percentile 54.09 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 02:25:16
End at: 2018-06-07 02:25:46
Local clock offset: 0.092 ms
Remote clock offset: 0.287 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 53.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 53.939 ms
Loss rate: 0.00%
Run 8: Report of TCP Vegas — Data Link

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

**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 59.87 Mbit/s)**
- **Flow 1 egress (mean 59.87 Mbit/s)**

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

**Packet Delay (ms)**

- **Flow 1 (95th percentile 53.94 ms)**
Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 02:45:40
End at: 2018-06-07 02:46:10
Local clock offset: 0.015 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.40 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 0.00%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 03:06:13
End at: 2018-06-07 03:06:43
Local clock offset: -0.116 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-06-07 04:48:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.00%
Run 10: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 18.32 Mbit/s)
- Flow 1 egress (mean 18.32 Mbit/s)

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

- Flow 1 (95th percentile 54.23 ms)
Run 1: Statistics of Verus

Start at: 2018-06-07 00:04:14
End at: 2018-06-07 00:04:44
Local clock offset: 0.053 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-06-07 04:49:00
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 258.65 Mbit/s
  95th percentile per-packet one-way delay: 85.991 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 258.65 Mbit/s
  95th percentile per-packet one-way delay: 85.991 ms
  Loss rate: 0.00%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-06-07 00:24:34
End at: 2018-06-07 00:25:04
Local clock offset: 0.188 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 04:49:00
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 234.20 Mbit/s
  95th percentile per-packet one-way delay: 81.769 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 234.20 Mbit/s
  95th percentile per-packet one-way delay: 81.769 ms
  Loss rate: 0.20%
Run 2: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 234.67 Mbit/s)
- Flow 1 egress (mean 234.20 Mbit/s)
- Flow 1 (95th percentile 81.77 ms)
Run 3: Statistics of Verus

Start at: 2018-06-07 00:45:08
End at: 2018-06-07 00:45:38
Local clock offset: 0.03 ms
Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-06-07 04:49:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 268.23 Mbit/s
  95th percentile per-packet one-way delay: 137.981 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 268.23 Mbit/s
  95th percentile per-packet one-way delay: 137.981 ms
  Loss rate: 0.00%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-06-07 01:05:24
End at: 2018-06-07 01:05:54
Local clock offset: -0.484 ms
Remote clock offset: -0.278 ms

# Below is generated by plot.py at 2018-06-07 04:50:02
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 280.73 Mbit/s
  95th percentile per-packet one-way delay: 125.116 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 280.73 Mbit/s
  95th percentile per-packet one-way delay: 125.116 ms
  Loss rate: 0.00%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-07 01:25:55
End at: 2018-06-07 01:26:25
Local clock offset: 0.278 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-07 04:50:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.72 Mbit/s
95th percentile per-packet one-way delay: 78.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 270.72 Mbit/s
95th percentile per-packet one-way delay: 78.181 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

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

- Flow 1 ingress (mean 270.72 Mbit/s)
- Flow 1 egress (mean 270.72 Mbit/s)

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

- Flow 1 (95th percentile 78.18 ms)
Run 6: Statistics of Verus

Start at: 2018-06-07 01:46:52
End at: 2018-06-07 01:47:22
Local clock offset: -0.347 ms
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-06-07 04:50:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.18 Mbit/s
95th percentile per-packet one-way delay: 89.176 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 273.18 Mbit/s
95th percentile per-packet one-way delay: 89.176 ms
Loss rate: 0.00%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-07 02:07:29
End at: 2018-06-07 02:07:59
Local clock offset: -0.13 ms
Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-06-07 04:50:40
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 249.61 Mbit/s
  95th percentile per-packet one-way delay: 103.766 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 249.61 Mbit/s
  95th percentile per-packet one-way delay: 103.766 ms
  Loss rate: 0.00%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-06-07 02:27:32
End at: 2018-06-07 02:28:02
Local clock offset: -0.214 ms
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2018-06-07 04:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.07 Mbit/s
95th percentile per-packet one-way delay: 109.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 264.07 Mbit/s
95th percentile per-packet one-way delay: 109.094 ms
Loss rate: 0.00%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-06-07 02:48:14
End at: 2018-06-07 02:48:44
Local clock offset: ~0.122 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-06-07 04:53:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 262.00 Mbit/s
95th percentile per-packet one-way delay: 77.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.00 Mbit/s
95th percentile per-packet one-way delay: 77.189 ms
Loss rate: 0.00%
Run 9: Report of Verus — Data Link

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

- Flow 1 ingress (mean 261.99 Mbit/s)
- Flow 1 egress (mean 262.00 Mbit/s)

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

- Flow 1 (95th percentile 77.19 ms)
Run 10: Statistics of Verus

Start at: 2018-06-07 03:08:27
End at: 2018-06-07 03:08:57
Local clock offset: -0.074 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-06-07 04:53:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.38 Mbit/s
95th percentile per-packet one-way delay: 132.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 296.38 Mbit/s
95th percentile per-packet one-way delay: 132.797 ms
Loss rate: 0.00%
Run 10: Report of Verus — Data Link

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

- Flow 1 ingress (mean 296.38 Mbit/s)
- Flow 1 egress (mean 296.38 Mbit/s)

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

- Flow 1 (95th percentile 132.80 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 00:09:01
End at: 2018-06-07 00:09:31
Local clock offset: 0.059 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-06-07 04:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 404.20 Mbit/s
95th percentile per-packet one-way delay: 49.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 404.20 Mbit/s
95th percentile per-packet one-way delay: 49.908 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

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

Throughput (Mbps):

- Flow 1 ingress (mean 404.19 Mbit/s)
- Flow 1 egress (mean 404.20 Mbit/s)

Packet delay (ms):

Flow 1 (95th percentile 49.91 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 00:29:43
End at: 2018-06-07 00:30:13
Local clock offset: 0.133 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-06-07 04:56:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.82 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 419.82 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 00:50:12
End at: 2018-06-07 00:50:42
Local clock offset: -0.05 ms
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2018-06-07 04:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.68 Mbit/s
95th percentile per-packet one-way delay: 55.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.68 Mbit/s
95th percentile per-packet one-way delay: 55.121 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 01:10:28
End at: 2018-06-07 01:10:59
Local clock offset: 0.163 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-07 04:57:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.93 Mbit/s
95th percentile per-packet one-way delay: 53.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 408.93 Mbit/s
95th percentile per-packet one-way delay: 53.132 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 01:31:06
End at: 2018-06-07 01:31:36
Local clock offset: 0.003 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-06-07 04:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.30 Mbit/s
95th percentile per-packet one-way delay: 54.684 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 402.30 Mbit/s
95th percentile per-packet one-way delay: 54.684 ms
Loss rate: 0.01%
Run 5: Report of PCC-Vivace — Data Link
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 01:51:58
End at: 2018-06-07 01:52:28
Local clock offset: 0.084 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-07 04:59:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.45 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 412.45 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.00%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 02:12:23
End at: 2018-06-07 02:12:53
Local clock offset: 0.164 ms
Remote clock offset: 0.234 ms

# Below is generated by plot.py at 2018-06-07 04:59:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.52 Mbit/s
95th percentile per-packet one-way delay: 55.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 412.52 Mbit/s
95th percentile per-packet one-way delay: 55.065 ms
Loss rate: 0.00%
Run 7: Report of PCC-Vivace — Data Link
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 02:32:24
End at: 2018-06-07 02:32:54
Local clock offset: -0.043 ms
Remote clock offset: 0.379 ms

# Below is generated by plot.py at 2018-06-07 04:59:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.45 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 411.45 Mbit/s
95th percentile per-packet one-way delay: 51.240 ms
Loss rate: 0.00%
Run 8: Report of PCC-Vivace — Data Link

**Graph 1:**
- **Throughput (Mbps):**
- **Time (s):**

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

*Flow 1 ingress (mean 411.45 Mbit/s) --- Flow 1 egress (mean 411.45 Mbit/s)*

*Flow 1 (95th percentile 51.24 ms)*
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 02:53:23
End at: 2018-06-07 02:53:53
Local clock offset: -0.492 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2018-06-07 05:00:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 419.42 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 419.42 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 0.00%
Run 9: Report of PCC-Vivace — Data Link

![Throughput Graph](image1)

[Flow 1 ingress (mean 419.41 Mbit/s)]
[Flow 1 egress (mean 419.42 Mbit/s)]

![Packet Delay Graph](image2)

[Flow 1 (95th percentile 53.67 ms)]
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 03:13:35
End at: 2018-06-07 03:14:05
Local clock offset: -0.266 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.97 Mbit/s
95th percentile per-packet one-way delay: 53.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 387.97 Mbit/s
95th percentile per-packet one-way delay: 53.932 ms
Loss rate: 0.00%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 00:11:40
End at: 2018-06-07 00:12:10
Local clock offset: 0.14 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 53.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 53.254 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-06-07 00:32:23
End at: 2018-06-07 00:32:53
Local clock offset: -0.232 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 53.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 53.522 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 1.92 Mbit/s)**
- **Flow 1 egress (mean 1.92 Mbit/s)**

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

- **Flow 1 (95th percentile 53.52 ms)**

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Run 3: Statistics of WebRTC media

Start at: 2018-06-07 00:52:51
End at: 2018-06-07 00:53:21
Local clock offset: 0.042 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

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

![Diagram 2: Packet One-Way Delay (ms)]

- **Flow 1 (95th percentile 50.48 ms)**
Run 4: Statistics of WebRTC media

Start at: 2018-06-07 01:13:07
End at: 2018-06-07 01:13:37
Local clock offset: 0.02 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.394 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-06-07 01:33:44
End at: 2018-06-07 01:34:14
Local clock offset: -0.163 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 53.806 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 1.96 Mbit/s)**
- **Flow 1 egress (mean 1.96 Mbit/s)**

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

- **Flow 1 (95th percentile 53.81 ms)**
Run 6: Statistics of WebRTC media

Start at: 2018-06-07 01:54:37
End at: 2018-06-07 01:55:07
Local clock offset: -0.053 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.96 Mbit/s
  95th percentile per-packet one-way delay: 50.718 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 1.96 Mbit/s
  95th percentile per-packet one-way delay: 50.718 ms
  Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-06-07 02:15:02
End at: 2018-06-07 02:15:32
Local clock offset: -0.223 ms
Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 53.495 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 53.495 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

![Graph of throughput and packet delay over time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 1.93 Mbps)
  - Flow 1 egress (mean 1.93 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 53.49 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-06-07 02:35:04
End at: 2018-06-07 02:35:34
Local clock offset: -0.173 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 9: Statistics of WebRTC media

Start at: 2018-06-07 02:56:03
End at: 2018-06-07 02:56:33
Local clock offset: -0.144 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for two flow types.]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 1.93 Mbps)
  - Flow 1 egress (mean 1.93 Mbps)

- **Packet delay (ms)**
  - Flow 1 95th percentile 54.08 ms
Run 10: Statistics of WebRTC media

Start at: 2018-06-07 03:16:13
End at: 2018-06-07 03:16:43
Local clock offset: -0.31 ms
Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2018-06-07 05:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 54.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 54.226 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

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