Pantheon Report

Generated at 2018-06-20 10:09:15 (UTC).
Data path: GCE London Ethernet (local) → GCE Iowa Ethernet (remote).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against time.google.com and have been applied
to correct the timestamps in logs.

Git summary:
branch: master @ 9141c5f9450c85ea5ea2ea755a8e9469988d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929f986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0e0cdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaaa4a906ce6bb7c3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b2cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fetc872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a8273a86b42f1bc8143ebc98f3ccf42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2ba8e86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f99d0e4735770d143a1fa2851
test from GCE London to GCE Iowa, 10 runs of 30s each per scheme
(mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s) flow 1</th>
<th>mean 95th-%ile delay (ms) flow 1</th>
<th>mean loss rate (%) flow 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>223.83</td>
<td>56.76</td>
<td>0.00</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>204.10</td>
<td>54.75</td>
<td>0.00</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>201.79</td>
<td>58.98</td>
<td>0.02</td>
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<tr>
<td>FillP</td>
<td>10</td>
<td>755.08</td>
<td>134.04</td>
<td>3.53</td>
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<tr>
<td>Indigo</td>
<td>10</td>
<td>224.48</td>
<td>50.95</td>
<td>0.01</td>
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<tr>
<td>LEDBAT</td>
<td>10</td>
<td>33.94</td>
<td>51.98</td>
<td>0.00</td>
</tr>
<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>542.47</td>
<td>141.33</td>
<td>1.29</td>
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<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>266.66</td>
<td>148.96</td>
<td>1.47</td>
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<tr>
<td>QUIC Cubic</td>
<td>7</td>
<td>49.25</td>
<td>50.59</td>
<td>0.00</td>
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<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>50.77</td>
<td>0.01</td>
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<tr>
<td>Sprout</td>
<td>10</td>
<td>6.67</td>
<td>51.05</td>
<td>0.00</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>243.63</td>
<td>51.42</td>
<td>0.00</td>
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<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>150.75</td>
<td>54.43</td>
<td>0.00</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>262.16</td>
<td>119.12</td>
<td>0.99</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>335.40</td>
<td>76.35</td>
<td>0.04</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.91</td>
<td>50.74</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-20 05:04:40
End at: 2018-06-20 05:05:10
Local clock offset: 0.133 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-20 08:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.59 Mbit/s
95th percentile per-packet one-way delay: 57.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.59 Mbit/s
95th percentile per-packet one-way delay: 57.897 ms
Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-06-20 05:25:27
End at: 2018-06-20 05:25:57
Local clock offset: 0.114 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-20 08:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.92 Mbit/s
95th percentile per-packet one-way delay: 56.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.92 Mbit/s
95th percentile per-packet one-way delay: 56.870 ms
Loss rate: 0.00%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2018-06-20 05:46:02
End at: 2018-06-20 05:46:32
Local clock offset: 0.122 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-20 08:39:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 225.18 Mbit/s
  95th percentile per-packet one-way delay: 59.017 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 225.18 Mbit/s
  95th percentile per-packet one-way delay: 59.017 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: 2018-06-20 06:06:47
End at: 2018-06-20 06:07:17
Local clock offset: 0.04 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 08:39:20
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 224.50 Mbit/s
  95th percentile per-packet one-way delay: 57.911 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 224.50 Mbit/s
  95th percentile per-packet one-way delay: 57.911 ms
  Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2018-06-20 06:27:33
End at: 2018-06-20 06:28:03
Local clock offset: 0.018 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-20 08:39:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.71 Mbit/s
95th percentile per-packet one-way delay: 58.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.71 Mbit/s
95th percentile per-packet one-way delay: 58.095 ms
Loss rate: 0.00%
Run 6: Statistics of TCP BBR

Start at: 2018-06-20 06:48:19
End at: 2018-06-20 06:48:49
Local clock offset: -0.046 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-06-20 08:39:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.33 Mbit/s
95th percentile per-packet one-way delay: 57.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.33 Mbit/s
95th percentile per-packet one-way delay: 57.903 ms
Loss rate: 0.00%
Run 6: Report of TCP BBR — Data Link

![Graph showing network traffic over time]

- Flow 1 ingress (mean 226.32 Mbit/s)
- Flow 1 egress (mean 226.33 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 57.90 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-06-20 07:08:45
End at: 2018-06-20 07:09:15
Local clock offset: -0.399 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-20 08:39:23
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 224.42 Mbit/s
  95th percentile per-packet one-way delay: 59.302 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 224.42 Mbit/s
  95th percentile per-packet one-way delay: 59.302 ms
  Loss rate: 0.00%
Run 7: Report of TCP BBR — Data Link

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

![Graph 2: Packet Delay vs. Time](image2.jpg)
Run 8: Statistics of TCP BBR

Start at: 2018-06-20 07:29:17
End at: 2018-06-20 07:29:47
Local clock offset: -0.286 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-06-20 08:39:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.72 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.72 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-06-20 07:50:00
End at: 2018-06-20 07:50:30
Local clock offset: -0.023 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-20 08:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.69 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.69 Mbit/s
95th percentile per-packet one-way delay: 51.094 ms
Loss rate: 0.00%
Run 9: Report of TCP BBR — Data Link

![Graph of Throughput and Packet Delay](image1)

- **Flow 1 ingress (mean 219.70 Mbit/s)**
- **Flow 1 egress (mean 219.69 Mbit/s)**
Run 10: Statistics of TCP BBR

Start at: 2018-06-20 08:10:38
End at: 2018-06-20 08:11:08
Local clock offset: -0.442 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-20 08:42:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.25 Mbit/s
95th percentile per-packet one-way delay: 58.338 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.25 Mbit/s
95th percentile per-packet one-way delay: 58.338 ms
Loss rate: 0.00%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2018-06-20 05:08:23
End at: 2018-06-20 05:08:53
Local clock offset: 0.068 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-20 08:45:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.82 Mbit/s
95th percentile per-packet one-way delay: 56.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.82 Mbit/s
95th percentile per-packet one-way delay: 56.486 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-06-20 05:29:06
End at: 2018-06-20 05:29:36
Local clock offset: 0.096 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-20 08:46:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.56 Mbit/s
95th percentile per-packet one-way delay: 55.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.56 Mbit/s
95th percentile per-packet one-way delay: 55.124 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 231.56 Mbit/s)**
- **Flow 1 egress (mean 231.56 Mbit/s)**

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

- **Flow 1 (95th percentile 55.12 ms)**
Run 3: Statistics of Copa

Start at: 2018-06-20 05:49:45
End at: 2018-06-20 05:50:15
Local clock offset: 0.14 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-20 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.47 Mbit/s
95th percentile per-packet one-way delay: 56.858 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.47 Mbit/s
95th percentile per-packet one-way delay: 56.858 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-20 06:10:31
End at: 2018-06-20 06:11:01
Local clock offset: 0.397 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-06-20 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.08 Mbit/s
95th percentile per-packet one-way delay: 55.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.08 Mbit/s
95th percentile per-packet one-way delay: 55.425 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

![Throughput Graph]

![Delay Graph]

Flow 1 ingress (mean 226.07 Mbit/s)  
Flow 1 egress (mean 226.08 Mbit/s)

Flow 1 (95th percentile 55.42 ms)
Run 5: Statistics of Copa

Start at: 2018-06-20 06:31:16
End at: 2018-06-20 06:31:46
Local clock offset: -0.02 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-20 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.66 Mbit/s
95th percentile per-packet one-way delay: 54.156 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.66 Mbit/s
95th percentile per-packet one-way delay: 54.156 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link
Run 6: Statistics of Copa

Start at: 2018-06-20 06:52:02
End at: 2018-06-20 06:52:32
Local clock offset: -0.058 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-06-20 08:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 105.07 Mbit/s
95th percentile per-packet one-way delay: 50.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.07 Mbit/s
95th percentile per-packet one-way delay: 50.914 ms
Loss rate: 0.00%
Run 6: Report of Copa — Data Link
Run 7: Statistics of Copa

Start at: 2018-06-20 07:12:25
End at: 2018-06-20 07:12:55
Local clock offset: 0.034 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-20 08:48:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.38 Mbit/s
95th percentile per-packet one-way delay: 52.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.38 Mbit/s
95th percentile per-packet one-way delay: 52.274 ms
Loss rate: 0.00%
Run 7: Report of Copa — Data Link

![Graph of Throughput vs Time](image1)

**Legend:**
- Flow 1 ingress (mean 176.38 Mbit/s)
- Flow 1 egress (mean 176.38 Mbit/s)

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

**Legend:**
- Flow 1 (95th percentile 52.27 ms)
Run 8: Statistics of Copa

Start at: 2018-06-20 07:33:00
End at: 2018-06-20 07:33:30
Local clock offset: -0.341 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-06-20 08:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.83 Mbit/s
95th percentile per-packet one-way delay: 55.213 ms
Loss rate: 0.02%

-- Flow 1:
Average throughput: 215.83 Mbit/s
95th percentile per-packet one-way delay: 55.213 ms
Loss rate: 0.02%
Run 8: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 215.87 Mbit/s)
- **Flow 1 egress** (mean 215.83 Mbit/s)

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

- **Flow 1** (95th percentile 55.21 ms)
Run 9: Statistics of Copa

Start at: 2018-06-20 07:53:45
End at: 2018-06-20 07:54:15
Local clock offset: -0.031 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-20 08:49:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.05 Mbit/s
95th percentile per-packet one-way delay: 52.206 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 169.05 Mbit/s
95th percentile per-packet one-way delay: 52.206 ms
Loss rate: 0.00%
Run 9: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 169.05 Mbit/s)
- Flow 1 egress (mean 169.05 Mbit/s)

![Graph 2: Round-trip delay (ms)]

- Flow 1 (95th percentile 52.21 ms)
Run 10: Statistics of Copa

Start at: 2018-06-20 08:14:20
End at: 2018-06-20 08:14:50
Local clock offset: -0.126 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.09 Mbit/s
95th percentile per-packet one-way delay: 58.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.09 Mbit/s
95th percentile per-packet one-way delay: 58.864 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 04:57:39
End at: 2018-06-20 04:58:09
Local clock offset: -0.34 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.34 Mbit/s
95th percentile per-packet one-way delay: 60.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.34 Mbit/s
95th percentile per-packet one-way delay: 60.925 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 05:18:29
End at: 2018-06-20 05:18:59
Local clock offset: 0.133 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
   -- Total of 1 flow:
   Average throughput: 226.56 Mbit/s
   95th percentile per-packet one-way delay: 59.989 ms
   Loss rate: 0.05%
   -- Flow 1:
   Average throughput: 226.56 Mbit/s
   95th percentile per-packet one-way delay: 59.989 ms
   Loss rate: 0.05%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 05:39:07
End at: 2018-06-20 05:39:37
Local clock offset: 0.455 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.37 Mbit/s
95th percentile per-packet one-way delay: 58.151 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.37 Mbit/s
95th percentile per-packet one-way delay: 58.151 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link

![Graph of TCP Cubic — Data Link](image)

- Flow 1 ingress (mean 227.42 Mbit/s)
- Flow 1 egress (mean 227.37 Mbit/s)

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

- Flow 1 (95th percentile 58.15 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 05:59:53
End at: 2018-06-20 06:00:23
Local clock offset: 0.087 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.41 Mbit/s
95th percentile per-packet one-way delay: 60.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.41 Mbit/s
95th percentile per-packet one-way delay: 60.489 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 213.41 Mbit/s)
- **Flow 1 egress** (mean 213.41 Mbit/s)

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

- **Flow 1** (95th percentile 60.49 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 06:20:36
End at: 2018-06-20 06:21:06
Local clock offset: 0.027 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.18 Mbit/s
95th percentile per-packet one-way delay: 60.192 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.18 Mbit/s
95th percentile per-packet one-way delay: 60.192 ms
Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link

![Graphs showing network throughput and packet delay over time. The graphs depict fluctuations in throughput and packet delay during the experiment.]

- **Throughput (Mbps)**: The upper graph shows the throughput over time, with lines representing different flow rates and their mean values.

- **Per-packet one-way delay (ms)**: The lower graph illustrates the per-packet one-way delay, with data points indicating delays at various moments.

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Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 06:41:26
End at: 2018-06-20 06:41:56
Local clock offset: -0.024 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 187.37 Mbit/s
  95th percentile per-packet one-way delay: 59.108 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 187.37 Mbit/s
  95th percentile per-packet one-way delay: 59.108 ms
  Loss rate: 0.09%
Run 6: Report of TCP Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 187.53 Mbit/s)  Flow 1 egress (mean 187.37 Mbit/s)

Per-packet one way delay (ms)

Flow 1 (95th percentile 59.11 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 07:01:51
End at: 2018-06-20 07:02:21
Local clock offset: 0.348 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.72 Mbit/s
95th percentile per-packet one-way delay: 52.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.72 Mbit/s
95th percentile per-packet one-way delay: 52.295 ms
Loss rate: 0.00%
Run 7: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 150.73 Mbit/s)
- Flow 1 egress (mean 150.72 Mbit/s)

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

- Flow 1 (95th percentile 52.30 ms)
Run 8: Statistics of TCP Cubic

End at: 2018-06-20 07:22:54
Local clock offset: 0.014 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-20 08:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.11 Mbit/s
95th percentile per-packet one-way delay: 59.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.11 Mbit/s
95th percentile per-packet one-way delay: 59.579 ms
Loss rate: 0.00%
Run 8: Report of TCP Cubic — Data Link

![Throughput Graph]

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

- **Flow 1 ingress (mean 159.12 Mbit/s)**
- **Flow 1 egress (mean 159.11 Mbit/s)**

![Delay Graph]

Bit-packet one-way delay (ms) vs. Time (s)

- **Flow 1 (95th percentile 59.58 ms)**
Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 07:43:03
End at: 2018-06-20 07:43:33
Local clock offset: -0.002 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 08:54:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.93 Mbit/s
95th percentile per-packet one-way delay: 60.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.93 Mbit/s
95th percentile per-packet one-way delay: 60.283 ms
Loss rate: 0.00%
Run 9: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 227.93 Mbit/s)**
- **Flow 1 egress (mean 227.93 Mbit/s)**

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

- **Flow 1 (95th percentile 60.28 ms)**
Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 08:03:39
End at: 2018-06-20 08:04:09
Local clock offset: -0.066 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-20 08:54:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.89 Mbit/s
95th percentile per-packet one-way delay: 58.824 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 177.89 Mbit/s
95th percentile per-packet one-way delay: 58.824 ms
Loss rate: 0.08%
Run 10: Report of TCP Cubic — Data Link

![Throughput graph](image1)

- Flow 1 ingress (mean 178.03 Mbit/s)
- Flow 1 egress (mean 177.89 Mbit/s)

![Round trip time graph](image2)

- Flow 1 (95th percentile 58.82 ms)
Run 1: Statistics of FillP

Start at: 2018-06-20 05:11:57
End at: 2018-06-20 05:12:27
Local clock offset: 0.082 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-20 09:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 849.29 Mbit/s
95th percentile per-packet one-way delay: 121.920 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 849.29 Mbit/s
95th percentile per-packet one-way delay: 121.920 ms
Loss rate: 1.89%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 865.62 Mbps)
  - Flow 1 egress (mean 849.29 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 121.92 ms)
Run 2: Statistics of FillP

Start at: 2018-06-20 05:32:45
End at: 2018-06-20 05:33:15
Local clock offset: -0.268 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-20 09:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 682.58 Mbit/s
95th percentile per-packet one-way delay: 135.382 ms
Loss rate: 5.61%
-- Flow 1:
Average throughput: 682.58 Mbit/s
95th percentile per-packet one-way delay: 135.382 ms
Loss rate: 5.61%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2018-06-20 05:53:26
End at: 2018-06-20 05:53:56
Local clock offset: 0.45 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-20 09:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 769.89 Mbit/s
95th percentile per-packet one-way delay: 127.604 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 769.89 Mbit/s
95th percentile per-packet one-way delay: 127.604 ms
Loss rate: 3.36%
Run 3: Report of FillP — Data Link

[Graph showing throughput and delay over time]

Flow 1 ingress (mean 796.67 Mbit/s)  Flow 1 egress (mean 769.89 Mbit/s)

Flow 1 (95th percentile 127.60 ms)
Run 4: Statistics of FillP

Start at: 2018-06-20 06:14:10
End at: 2018-06-20 06:14:40
Local clock offset: -0.045 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-20 09:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 741.19 Mbit/s
95th percentile per-packet one-way delay: 133.178 ms
Loss rate: 3.59%
-- Flow 1:
Average throughput: 741.19 Mbit/s
95th percentile per-packet one-way delay: 133.178 ms
Loss rate: 3.59%
Run 4: Report of FillP — Data Link

![Graph showing data link throughput and per-packet end-to-end delay over time.]

- Flow 1 ingress (mean 768.82 Mbit/s)
- Flow 1 egress (mean 741.19 Mbit/s)

Flow 1 (95th percentile 133.18 ms)
Run 5: Statistics of FillP

Start at: 2018-06-20 06:34:54
End at: 2018-06-20 06:35:24
Local clock offset: -0.004 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-06-20 09:09:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 806.20 Mbit/s
95th percentile per-packet one-way delay: 125.047 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 806.20 Mbit/s
95th percentile per-packet one-way delay: 125.047 ms
Loss rate: 3.16%
Run 5: Report of FillP — Data Link

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

- Flow 1 ingress (mean 832.47 Mbps)
- Flow 1 egress (mean 806.20 Mbps)

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

- Flow 1 (95th percentile 125.05 ms)
Run 6: Statistics of FillP

Start at: 2018-06-20 06:55:30
End at: 2018-06-20 06:56:00
Local clock offset: -0.058 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2018-06-20 09:09:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 710.23 Mbit/s
95th percentile per-packet one-way delay: 140.270 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 710.23 Mbit/s
95th percentile per-packet one-way delay: 140.270 ms
Loss rate: 4.28%
Run 6: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 741.94 Mbps)
  - Flow 1 egress (mean 710.23 Mbps)

- **Per-packet end-to-end delay (ms)**
  - Flow 1 (95th percentile 140.27 ms)
Run 7: Statistics of FillP

Start at: 2018-06-20 07:15:59
End at: 2018-06-20 07:16:29
Local clock offset: 0.025 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-06-20 09:09:30
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 741.42 Mbit/s
  95th percentile per-packet one-way delay: 129.519 ms
  Loss rate: 4.45%
-- Flow 1:
  Average throughput: 741.42 Mbit/s
  95th percentile per-packet one-way delay: 129.519 ms
  Loss rate: 4.45%
Run 7: Report of FillP — Data Link

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

- Flow 1 ingress (mean 775.95 Mbps)
- Flow 1 egress (mean 741.42 Mbps)

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

- Flow 1 (95th percentile 129.52 ms)
Run 8: Statistics of FillP

Start at: 2018-06-20 07:36:38
End at: 2018-06-20 07:37:08
Local clock offset: 0.071 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-06-20 09:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 763.96 Mbit/s
95th percentile per-packet one-way delay: 131.136 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 763.96 Mbit/s
95th percentile per-packet one-way delay: 131.136 ms
Loss rate: 2.66%
Run 8: Report of FillP — Data Link

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

- Flow 1 ingress (mean 784.86 Mbit/s)
- Flow 1 egress (mean 763.96 Mbit/s)

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

- Flow 1 (95th percentile 131.14 ms)
Run 9: Statistics of FillP

Start at: 2018-06-20 07:57:18
End at: 2018-06-20 07:57:48
Local clock offset: -0.418 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-20 09:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 739.78 Mbit/s
95th percentile per-packet one-way delay: 165.894 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 739.78 Mbit/s
95th percentile per-packet one-way delay: 165.894 ms
Loss rate: 2.73%
Run 9: Report of FillP — Data Link
Run 10: Statistics of FillP

Start at: 2018-06-20 08:18:00
End at: 2018-06-20 08:18:30
Local clock offset: -0.419 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 746.28 Mbit/s
95th percentile per-packet one-way delay: 130.427 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 746.28 Mbit/s
95th percentile per-packet one-way delay: 130.427 ms
Loss rate: 3.54%
Run 10: Report of FillP — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 773.67 Mbit/s)
- Flow 1 egress (mean 746.28 Mbit/s)

![Per Packet Way Delays Graph](image2)

- Flow 1 (95th percentile 130.43 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-20 05:05:56
End at: 2018-06-20 05:06:26
Local clock offset: 0.077 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.70 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 236.70 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 0.14%
Run 1: Report of Indigo — Data Link

![Graph of throughput over time for Flow 1 ingress and egress](image)

![Graph of per-packet delay over time for Flow 1](image)
Run 2: Statistics of Indigo

Start at: 2018-06-20 05:26:42
End at: 2018-06-20 05:27:12
Local clock offset: -0.289 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.53 Mbit/s
95th percentile per-packet one-way delay: 51.092 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.53 Mbit/s
95th percentile per-packet one-way delay: 51.092 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

![Graph showing network throughput over time]

![Graph showing packet delay over time]
Run 3: Statistics of Indigo

Start at: 2018-06-20 05:47:17
End at: 2018-06-20 05:47:47
Local clock offset: 0.1 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 248.24 Mbit/s
  95th percentile per-packet one-way delay: 50.952 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 248.24 Mbit/s
  95th percentile per-packet one-way delay: 50.952 ms
  Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-06-20 06:08:04
End at: 2018-06-20 06:08:34
Local clock offset: 0.026 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.86 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.86 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.00%
Run 5: Statistics of Indigo

Start at: 2018-06-20 06:28:49
End at: 2018-06-20 06:29:19
Local clock offset: 0.005 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.93 Mbit/s
95th percentile per-packet one-way delay: 50.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.93 Mbit/s
95th percentile per-packet one-way delay: 50.929 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link
Run 6: Statistics of Indigo

Start at: 2018-06-20 06:49:35
End at: 2018-06-20 06:50:05
Local clock offset: -0.04 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.48 Mbit/s
95th percentile per-packet one-way delay: 51.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.48 Mbit/s
95th percentile per-packet one-way delay: 51.246 ms
Loss rate: 0.00%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-20 07:10:00
End at: 2018-06-20 07:10:30
Local clock offset: 0.015 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.73 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.73 Mbit/s
95th percentile per-packet one-way delay: 50.732 ms
Loss rate: 0.00%
Run 7: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 212.73 Mbit/s)**
- **Flow 1 egress (mean 212.73 Mbit/s)**

- **Flow 1 (95th percentile 50.73 ms)**
Run 8: Statistics of Indigo

Start at: 2018-06-20 07:30:32
End at: 2018-06-20 07:31:02
Local clock offset: 0.046 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.97 Mbit/s
95th percentile per-packet one-way delay: 50.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.97 Mbit/s
95th percentile per-packet one-way delay: 50.885 ms
Loss rate: 0.00%
Run 8: Report of Indigo — Data Link

![Graph showing throughput and delay over time](image-url)
Run 9: Statistics of Indigo

Start at: 2018-06-20 07:51:16
End at: 2018-06-20 07:51:46
Local clock offset: -0.04 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.64 Mbit/s
95th percentile per-packet one-way delay: 50.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.64 Mbit/s
95th percentile per-packet one-way delay: 50.803 ms
Loss rate: 0.00%
Run 9: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 219.64 Mbit/s)**
- **Flow 1 egress (mean 219.64 Mbit/s)**

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

- **Flow 1 (95th percentile 50.80 ms)**
Run 10: Statistics of Indigo

Start at: 2018-06-20 08:11:55
End at: 2018-06-20 08:12:25
Local clock offset: -0.414 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 50.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 50.940 ms
Loss rate: 0.00%
Run 10: Report of Indigo — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 222.70 Mbit/s)  
Flow 1 egress (mean 222.70 Mbit/s)

Packet delay (ms)

Flow 1 (95th percentile 50.94 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 05:10:50
End at: 2018-06-20 05:11:20
Local clock offset: 0.473 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 51.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 51.763 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graphs showing throughput and round-trip delay over time]

Flow 1 ingress (mean 32.84 Mbit/s)  Flow 1 egress (mean 32.84 Mbit/s)

Flow 1 (95th percentile 51.76 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-06-20 05:31:37
End at: 2018-06-20 05:32:07
Local clock offset: 0.097 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 51.966 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 51.966 ms
Loss rate: 0.00%
Run 3: Statistics of LEDBAT

Start at: 2018-06-20 05:52:19
End at: 2018-06-20 05:52:49
Local clock offset: 0.407 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-06-20 06:13:02
End at: 2018-06-20 06:13:32
Local clock offset: 0.06 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.93 Mbit/s
95th percentile per-packet one-way delay: 51.937 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

![Graph](image1)

![Graph](image2)
Run 5: Statistics of LEDEBAT

Start at: 2018-06-20 06:33:46
End at: 2018-06-20 06:34:16
Local clock offset: -0.014 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 34.89 Mbit/s
  95th percentile per-packet one-way delay: 51.666 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 34.89 Mbit/s
  95th percentile per-packet one-way delay: 51.666 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph 1: Throughput vs. Time]

- Flow 1 ingress (mean 34.89 Mbit/s)
- Flow 1 egress (mean 34.89 Mbit/s)

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

- Flow 1 (95th percentile 51.67 ms)
Run 6: Statistics of LEDBAT

Start at: 2018-06-20 06:54:22
End at: 2018-06-20 06:54:52
Local clock offset: 0.332 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 51.774 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 51.774 ms
Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-06-20 07:14:52
End at: 2018-06-20 07:15:22
Local clock offset: 0.009 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 52.105 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 52.105 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-06-20 07:35:30
End at: 2018-06-20 07:36:00
Local clock offset: 0.032 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 35.15 Mbit/s
  95th percentile per-packet one-way delay: 51.976 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 35.15 Mbit/s
  95th percentile per-packet one-way delay: 51.976 ms
  Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-06-20 07:56:11  
End at: 2018-06-20 07:56:41  
Local clock offset: -0.448 ms  
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-20 09:24:52  
# Datalink statistics
-- Total of 1 flow:  
Average throughput: 27.15 Mbit/s  
95th percentile per-packet one-way delay: 52.557 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 27.15 Mbit/s  
95th percentile per-packet one-way delay: 52.557 ms  
Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 27.15 Mbit/s)**
- **Flow 1 egress (mean 27.15 Mbit/s)**

![Graph showing per-packet end-to-end delay.]

- **Flow 1 (95th percentile 52.56 ms)**
Run 10: Statistics of LEDBAT

Start at: 2018-06-20 08:16:53
End at: 2018-06-20 08:17:23
Local clock offset: -0.434 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-20 09:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 52.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.73 Mbit/s
95th percentile per-packet one-way delay: 52.332 ms
Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 05:01:43
End at: 2018-06-20 05:02:14
Local clock offset: 0.456 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-20 09:25:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.68 Mbit/s
95th percentile per-packet one-way delay: 190.712 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 568.68 Mbit/s
95th percentile per-packet one-way delay: 190.712 ms
Loss rate: 1.39%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 05:22:35
End at: 2018-06-20 05:23:05
Local clock offset: -0.266 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-20 09:25:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.15 Mbit/s
95th percentile per-packet one-way delay: 166.505 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 525.15 Mbit/s
95th percentile per-packet one-way delay: 166.505 ms
Loss rate: 2.76%
Run 2: Report of PCC-Allegro — Data Link

![Graphs showing throughput and delay over time for flow 1 entrance and egress.]
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 05:43:12
End at: 2018-06-20 05:43:42
Local clock offset: 0.442 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-06-20 09:26:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.84 Mbit/s
95th percentile per-packet one-way delay: 170.398 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 565.84 Mbit/s
95th percentile per-packet one-way delay: 170.398 ms
Loss rate: 2.29%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 06:03:57
End at: 2018-06-20 06:04:27
Local clock offset: 0.41 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-20 09:26:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.71 Mbit/s
95th percentile per-packet one-way delay: 145.230 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 533.71 Mbit/s
95th percentile per-packet one-way delay: 145.230 ms
Loss rate: 1.20%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 06:24:40
End at: 2018-06-20 06:25:10
Local clock offset: -0.013 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-20 09:26:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.72 Mbit/s
95th percentile per-packet one-way delay: 133.721 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 538.72 Mbit/s
95th percentile per-packet one-way delay: 133.721 ms
Loss rate: 0.83%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 06:45:26
End at: 2018-06-20 06:45:56
Local clock offset: -0.012 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-20 09:26:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 541.62 Mbit/s
95th percentile per-packet one-way delay: 133.788 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 541.62 Mbit/s
95th percentile per-packet one-way delay: 133.788 ms
Loss rate: 1.26%
Run 6: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 548.53 Mbps)
- Flow 1 egress (mean 541.62 Mbps)

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

- Flow 1 (95th percentile 133.79 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 07:05:53
End at: 2018-06-20 07:06:23
Local clock offset: -0.028 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-20 09:33:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.86 Mbit/s
95th percentile per-packet one-way delay: 104.329 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 538.86 Mbit/s
95th percentile per-packet one-way delay: 104.329 ms
Loss rate: 0.51%
Run 7: Report of PCC-Allegro — Data Link

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

Flow 1 ingress (mean 541.65 Mbit/s)  Flow 1 egress (mean 538.86 Mbit/s)

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

Flow 1 (95th percentile 104.33 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 07:26:21
End at: 2018-06-20 07:26:51
Local clock offset: 0.045 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-06-20 09:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 539.27 Mbit/s
95th percentile per-packet one-way delay: 139.657 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 539.27 Mbit/s
95th percentile per-packet one-way delay: 139.657 ms
Loss rate: 1.16%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 07:47:06
End at: 2018-06-20 07:47:36
Local clock offset: -0.042 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-20 09:35:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.31 Mbit/s
95th percentile per-packet one-way delay: 102.381 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 546.31 Mbit/s
95th percentile per-packet one-way delay: 102.381 ms
Loss rate: 0.51%
Run 9: Report of PCC-Allegro — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 549.11 Mbit/s)
- Flow 1 egress (mean 546.31 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 102.38 ms)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 08:07:45
End at: 2018-06-20 08:08:15
Local clock offset: ~0.439 ms
Remote clock offset: 0.04 ms

# Below is generated by plot.py at 2018-06-20 09:35:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.56 Mbit/s
95th percentile per-packet one-way delay: 126.592 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 526.56 Mbit/s
95th percentile per-packet one-way delay: 126.592 ms
Loss rate: 1.01%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 05:03:09
End at: 2018-06-20 05:03:39
Local clock offset: 0.081 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-20 09:35:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.70 Mbit/s
95th percentile per-packet one-way delay: 186.361 ms
Loss rate: 3.20%
-- Flow 1:
Average throughput: 304.70 Mbit/s
95th percentile per-packet one-way delay: 186.361 ms
Loss rate: 3.20%
Run 1: Report of PCC-Expr — Data Link

[Graphs showing throughput and per-packet one-way delay over time, with annotations on the graph.

Flow 1 ingress (mean 314.77 Mbit/s) and Flow 1 egress (mean 304.79 Mbit/s).]
Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 05:23:58
End at: 2018-06-20 05:24:28
Local clock offset: -0.235 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-06-20 09:35:44
# Datalink statistics
  -- Total of 1 flow:
  Average throughput: 268.77 Mbit/s
  95th percentile per-packet one-way delay: 132.768 ms
  Loss rate: 0.14%
  -- Flow 1:
  Average throughput: 268.77 Mbit/s
  95th percentile per-packet one-way delay: 132.768 ms
  Loss rate: 0.14%
Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 05:44:37
End at: 2018-06-20 05:45:07
Local clock offset: 0.086 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-20 09:35:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.25 Mbit/s
95th percentile per-packet one-way delay: 78.480 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 230.25 Mbit/s
95th percentile per-packet one-way delay: 78.480 ms
Loss rate: 0.01%
Run 3: Report of PCC-Expr — Data Link

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

*Flow 1 ingress (mean 230.44 Mbit/s) - Flow 1 egress (mean 230.25 Mbit/s)*

*Flow 1 (95th percentile 78.48 ms)*
Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 06:05:21
End at: 2018-06-20 06:05:51
Local clock offset: 0.027 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-20 09:35:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.36 Mbit/s
95th percentile per-packet one-way delay: 56.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.36 Mbit/s
95th percentile per-packet one-way delay: 56.162 ms
Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2018-06-20 06:26:04
End at: 2018-06-20 06:26:34
Local clock offset: 0.023 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-20 09:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.68 Mbit/s
95th percentile per-packet one-way delay: 174.225 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 271.68 Mbit/s
95th percentile per-packet one-way delay: 174.225 ms
Loss rate: 4.73%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 2.851 Mbps)
- Flow 1 egress (mean 271.68 Mbps)

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

- Flow 1 (95th percentile 174.22 ms)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 06:46:50
End at: 2018-06-20 06:47:20
Local clock offset: -0.04 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-06-20 09:42:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.02 Mbit/s
95th percentile per-packet one-way delay: 150.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.02 Mbit/s
95th percentile per-packet one-way delay: 150.217 ms
Loss rate: 0.00%
Run 6: Report of PCC-Expr — Data Link

![Graph](image1.png)

![Graph](image2.png)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 07:07:18
End at: 2018-06-20 07:07:48
Local clock offset: -0.044 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-20 09:42:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.39 Mbit/s
95th percentile per-packet one-way delay: 158.680 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 249.39 Mbit/s
95th percentile per-packet one-way delay: 158.680 ms
Loss rate: 0.05%
Run 7: Report of PCC-Expr — Data Link

Throughput (Mbps):

Flow 1 ingress (mean 249.54 Mbit/s)  
Flow 1 egress (mean 249.39 Mbit/s)

Round trip one way delay (ms):

Flow 1 (95th percentile 158.68 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 07:27:46
End at: 2018-06-20 07:28:16
Local clock offset: 0.046 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.64 Mbit/s
95th percentile per-packet one-way delay: 190.393 ms
Loss rate: 3.65%
-- Flow 1:
Average throughput: 291.64 Mbit/s
95th percentile per-packet one-way delay: 190.393 ms
Loss rate: 3.65%
Run 8: Report of PCC-Expr — Data Link

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

Flow 1 ingress (mean 302.68 Mbit/s)  Flow 1 egress (mean 291.64 Mbit/s)

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

Flow 1 (95th percentile 190.39 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 07:48:30
End at: 2018-06-20 07:49:00
Local clock offset: -0.021 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.81 Mbit/s
95th percentile per-packet one-way delay: 183.649 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 277.81 Mbit/s
95th percentile per-packet one-way delay: 183.649 ms
Loss rate: 1.00%
Run 9: Report of PCC-Expr — Data Link

![Graph of Throughput and Delay](image)

**Throughput (Mbps)**
- **Flow 1 ingress** (mean 280.62 Mbps)
- **Flow 1 egress** (mean 277.81 Mbps)

**Per packet one-way delay (ms)**
- **Flow 1 (95th percentile 183.65 ms)**
Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 08:09:09
End at: 2018-06-20 08:09:39
Local clock offset: ~0.031 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 265.02 Mbit/s
  95th percentile per-packet one-way delay: 178.713 ms
  Loss rate: 1.91%
-- Flow 1:
  Average throughput: 265.02 Mbit/s
  95th percentile per-packet one-way delay: 178.713 ms
  Loss rate: 1.91%
Run 10: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 05:07:15
End at: 2018-06-20 05:07:45
Local clock offset: 0.079 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 50.693 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 50.693 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

![Graph of throughput vs time showing two data flows: one with mean 63.79 Mbps and the other with mean 68.69 Mbps.](image)

![Graph of packet round-trip delay vs time showing packet delays ranging from 50 to 95 ms for Flow 1.](image)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 05:28:01
End at: 2018-06-20 05:28:31
Local clock offset: 0.176 ms
Remote clock offset: -0.019 ms
Run 2: 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]

- **Flow 1 (95th percentile 49.80 ms)**
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 05:48:37
End at: 2018-06-20 05:49:07
Local clock offset: 0.46 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 39.75 Mbit/s
  95th percentile per-packet one-way delay: 49.423 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 39.75 Mbit/s
  95th percentile per-packet one-way delay: 49.423 ms
  Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet delay over time for Flow 1 with ingress and egress rates of 39.75 Mbps.](image)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 06:09:23
End at: 2018-06-20 06:09:53
Local clock offset: 0.014 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 37.17 Mbit/s
  95th percentile per-packet one-way delay: 50.346 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 37.17 Mbit/s
  95th percentile per-packet one-way delay: 50.346 ms
  Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 37.17 Mb/s)**
- **Flow 1 egress (mean 37.17 Mb/s)**

![Graph showing packet delay](image)

- **Flow 1 (95th percentile 50.35 ms)**
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 06:30:08
End at: 2018-06-20 06:30:38
Local clock offset: 0.033 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 50.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 50.737 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 39.97 Mbit/s)
- Flow 1 egress (mean 39.97 Mbit/s)
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 06:50:55
End at: 2018-06-20 06:51:25
Local clock offset: -0.069 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.00%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 07:11:20
End at: 2018-06-20 07:11:50
Local clock offset: 0.049 ms
Remote clock offset: -0.035 ms
Run 7: Report of QUIC Cubic — Data Link

Graph 1: Throughput vs. Time

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

Legend:
- Blue line: Flow 1 ingress (mean 0.06 Mbit/s)
- Purple line: Flow 1 egress (mean 0.06 Mbit/s)
- Blue dot: Flow 1 (95th percentile 50.38 ms)
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 07:31:52
End at: 2018-06-20 07:32:22
Local clock offset: -0.323 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 51.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 51.488 ms
Loss rate: 0.00%
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 07:52:35  
End at: 2018-06-20 07:53:05  
Local clock offset: -0.368 ms  
Remote clock offset: -0.044 ms  

# Below is generated by plot.py at 2018-06-20 09:43:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.75 Mbit/s  
95th percentile per-packet one-way delay: 50.554 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.75 Mbit/s  
95th percentile per-packet one-way delay: 50.554 ms  
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 08:13:15
End at: 2018-06-20 08:13:45
Local clock offset: -0.047 ms
Remote clock offset: -0.005 ms
Run 10: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet round trip time over time]

- Throughput (Mbps)
- Time (s)
- Flow 1 ingress (mean 0.06 Mbps)
- Flow 1 egress (mean 0.06 Mbps)

![Graph showing packet round trip time over time]

- Packet round trip delay (ms)
- Time (s)
- Flow 1 (95th percentile 50.34 ms)
Run 1: Statistics of SCReAM

Start at: 2018-06-20 05:14:40
End at: 2018-06-20 05:15:10
Local clock offset: 0.111 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

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

![Graph 2: Ping round trip delay vs Time (ms)]

- Flow 1 (95th percentile 50.39 ms)
Run 2: Statistics of SCReAM

Start at: 2018-06-20 05:35:22
End at: 2018-06-20 05:35:52
Local clock offset: -0.272 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.942 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 50.94 ms)
Run 3: Statistics of SCReAM

Start at: 2018-06-20 05:56:07
End at: 2018-06-20 05:56:37
Local clock offset: 0.062 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Throughput Graph](image)

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

![Round-Trip Time Graph](image)

- Flow 1 (95th percentile 50.75 ms)
Run 4: Statistics of SCReAM

Start at: 2018-06-20 06:16:50
End at: 2018-06-20 06:17:20
Local clock offset: 0.381 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.412 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

![Graph 1](image1.png)

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

![Graph 2](image2.png)

- Flow 1 (95th percentile 50.41 ms)
Run 5: Statistics of SCReAM

Start at: 2018-06-20 06:37:38
End at: 2018-06-20 06:38:08
Local clock offset: 0.016 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.898 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.898 ms
  Loss rate: 0.13%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-06-20 06:58:08
End at: 2018-06-20 06:58:38
Local clock offset: 0.335 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link

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

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

![Graph 2: Per-packet one-way delay (ms)]
Run 7: Statistics of SCReAM

Start at: 2018-06-20 07:18:39
End at: 2018-06-20 07:19:10
Local clock offset: 0.051 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.646 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.646 ms
  Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link

[Graph showing network performance metrics]

Flow 1 ingress (mean: 0.22 Mbit/s) vs. Flow 1 egress (mean: 0.22 Mbit/s)

[Graph showing packet delay]

Flow 1 (95th percentile: 50.65 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-20 07:39:18
End at: 2018-06-20 07:39:48
Local clock offset: -0.294 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

![Throughput vs Time](image1.png)

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

![Packet Delay vs Time](image2.png)

- **Flow 1 (95th percentile 51.31 ms)**
Run 9: Statistics of SCReAM

Start at: 2018-06-20 07:59:58
End at: 2018-06-20 08:00:28
Local clock offset: -0.055 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.932 ms
Loss rate: 0.00%
Run 9: 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 50.93 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-20 08:20:41
End at: 2018-06-20 08:21:11
Local clock offset: -0.406 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-06-20 09:43:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2018-06-20 05:09:44
End at: 2018-06-20 05:10:14
Local clock offset: 0.1 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 50.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 50.784 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph of Throughput and Per-packet one way delay over time](image)

- Flow 1 ingress (mean 6.52 Mbit/s)
- Flow 1 egress (mean 6.52 Mbit/s)

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

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

Start at: 2018-06-20 05:30:31
End at: 2018-06-20 05:31:01
Local clock offset: 0.107 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 5.53 Mbit/s
  95th percentile per-packet one-way delay: 50.998 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 5.53 Mbit/s
  95th percentile per-packet one-way delay: 50.998 ms
  Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

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

- Flow 1 ingress (mean 5.53 Mbit/s)
- Flow 1 egress (mean 5.53 Mbit/s)

Flow 1 (95th percentile 51.00 ms)
Run 3: Statistics of Sprout

Start at: 2018-06-20 05:51:13
End at: 2018-06-20 05:51:43
Local clock offset: 0.1 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 50.900 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

![Graph of Throughput vs Time](image1)

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

Start at: 2018-06-20 06:11:56
End at: 2018-06-20 06:12:26
Local clock offset: 0.003 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 51.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 51.491 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

![Graph showing throughput and packet round-trip delay over time.](image)
Run 5: Statistics of Sprout

Start at: 2018-06-20 06:32:40
End at: 2018-06-20 06:33:10
Local clock offset: 0.003 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 6.69 Mbit/s)  Flow 1 egress (mean 6.69 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.59 ms)
Run 6: Statistics of Sprout

Start at: 2018-06-20 06:53:16
End at: 2018-06-20 06:53:46
Local clock offset: 0.004 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 51.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 51.022 ms
Loss rate: 0.00%
Run 6: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 7.24 Mbps/s)
- Flow 1 egress (mean 7.24 Mbps/s)

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

- Flow 1 (90th percentile 51.02 ms)
Run 7: Statistics of Sprout

Start at: 2018-06-20 07:13:45
End at: 2018-06-20 07:14:15
Local clock offset: 0.05 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 50.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 50.949 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-06-20 07:34:24
End at: 2018-06-20 07:34:54
Local clock offset: 0.066 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 51.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 51.397 ms
Loss rate: 0.00%
Run 8: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 7.05 Mbps)**
- **Flow 1 egress (mean 7.05 Mbps)**

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

- **Flow 1 (95th percentile 51.40 ms)**

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Run 9: Statistics of Sprout

Start at: 2018-06-20 07:55:04
End at: 2018-06-20 07:55:35
Local clock offset: ~0.433 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 51.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 51.522 ms
Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

[Graph showing throughput and packet delay over time]

Flow 1 ingress (mean 7.06 Mbit/s)
Flow 1 egress (mean 7.06 Mbit/s)
Flow 1 (95th percentile 51.52 ms)
Run 10: Statistics of Sprout

Start at: 2018-06-20 08:15:47
End at: 2018-06-20 08:16:17
Local clock offset: -0.044 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-20 09:43:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 50.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 50.888 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 05:00:16
End at: 2018-06-20 05:00:46
Local clock offset: 0.446 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-20 09:48:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.99 Mbit/s
95th percentile per-packet one-way delay: 52.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.99 Mbit/s
95th percentile per-packet one-way delay: 52.706 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 05:21:08
End at: 2018-06-20 05:21:38
Local clock offset: 0.103 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-20 09:48:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.41 Mbit/s
95th percentile per-packet one-way delay: 52.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.41 Mbit/s
95th percentile per-packet one-way delay: 52.225 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

![Throughput Graph]

![Packet Delay Graph]

Flow 1 ingress (mean 256.42 Mbit/s)  Flow 1 egress (mean 256.41 Mbit/s)

Flow 1 (95th percentile 52.23 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 05:41:45
End at: 2018-06-20 05:42:15
Local clock offset: 0.122 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-20 09:49:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.41 Mbit/s
95th percentile per-packet one-way delay: 51.606 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.41 Mbit/s
95th percentile per-packet one-way delay: 51.606 ms
Loss rate: 0.00%
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 06:02:30
End at: 2018-06-20 06:03:00
Local clock offset: 0.062 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-06-20 09:50:33
# Datalink statistics
   -- Total of 1 flow:
   Average throughput: 258.86 Mbit/s
   95th percentile per-packet one-way delay: 51.047 ms
   Loss rate: 0.00%
   -- Flow 1:
   Average throughput: 258.86 Mbit/s
   95th percentile per-packet one-way delay: 51.047 ms
   Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 06:23:13
End at: 2018-06-20 06:23:43
Local clock offset: -0.016 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-20 09:50:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.07 Mbit/s
95th percentile per-packet one-way delay: 51.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.07 Mbit/s
95th percentile per-packet one-way delay: 51.729 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 06:44:02
End at: 2018-06-20 06:44:32
Local clock offset: -0.021 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-20 09:50:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 218.11 Mbit/s
  95th percentile per-packet one-way delay: 51.041 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 218.11 Mbit/s
  95th percentile per-packet one-way delay: 51.041 ms
  Loss rate: 0.00%
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 07:04:25
End at: 2018-06-20 07:04:55
Local clock offset: -0.014 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-20 09:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.01 Mbit/s
95th percentile per-packet one-way delay: 51.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.01 Mbit/s
95th percentile per-packet one-way delay: 51.130 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet delay over time for Flow 1 ingress and egress.]
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 07:24:57
End at: 2018-06-20 07:25:27
Local clock offset: 0.04 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-06-20 09:52:33
# Datalink statistics
--- Total of 1 flow:
Average throughput: 210.06 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.00%
--- Flow 1:
Average throughput: 210.06 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 07:45:39
End at: 2018-06-20 07:46:09
Local clock offset: 0.375 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-06-20 09:56:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.34 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.34 Mbit/s
95th percentile per-packet one-way delay: 50.892 ms
Loss rate: 0.00%
Run 9: Report of TaoVA-100x — Data Link

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

![Graph 2: Delay vs Time](image2)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 08:06:17
End at: 2018-06-20 08:06:47
Local clock offset: 0.34 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.00 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 246.00 Mbit/s
95th percentile per-packet one-way delay: 50.835 ms
Loss rate: 0.00%
Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 05:17:13
End at: 2018-06-20 05:17:43
Local clock offset: 0.081 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.45 Mbit/s
95th percentile per-packet one-way delay: 59.463 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 229.45 Mbit/s
95th percentile per-packet one-way delay: 59.463 ms
Loss rate: 0.04%
Run 1: Report of TCP Vegas — Data Link

![Graph showing network throughput over time]

- Flow 1 ingress (mean 229.56 Mbit/s)
- Flow 1 egress (mean 229.45 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 59.46 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 05:37:52
End at: 2018-06-20 05:38:22
Local clock offset: 0.087 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 200.20 Mbit/s
  95th percentile per-packet one-way delay: 59.903 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 200.20 Mbit/s
  95th percentile per-packet one-way delay: 59.903 ms
  Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 200.20 Mbps)
- Flow 1 egress (mean 200.20 Mbps)

**Packet delay (ms):**
- Flow 1 (95th percentile 59.90 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 05:58:39
End at: 2018-06-20 05:59:09
Local clock offset: 0.032 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.35 Mbit/s
95th percentile per-packet one-way delay: 51.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.35 Mbit/s
95th percentile per-packet one-way delay: 51.899 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

---

- **Throughput (Mbps)**
  - Plot showing time (s) on the x-axis and throughput (Mbps) on the y-axis.
  - Two lines:
    - Dashed line: Flow 1 ingress (mean 190.36 Mbps)
    - Solid line: Flow 1 egress (mean 190.35 Mbps)

- **Per-packet one-way delay (ms)**
  - Plot showing time (s) on the x-axis and per-packet delay (ms) on the y-axis.
  - Points indicating delay with a 95th percentile of 51.90 ms.
Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 06:19:23
End at: 2018-06-20 06:19:53
Local clock offset: 0.038 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.65 Mbit/s
95th percentile per-packet one-way delay: 51.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.65 Mbit/s
95th percentile per-packet one-way delay: 51.568 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 06:40:11
End at: 2018-06-20 06:40:42
Local clock offset: -0.054 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.29 Mbit/s
95th percentile per-packet one-way delay: 61.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.29 Mbit/s
95th percentile per-packet one-way delay: 61.470 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)

- **Flow 1 ingress (mean 193.29 Mbit/s)**
- **Flow 1 egress (mean 193.29 Mbit/s)**

- **Flow 1 (95th percentile 61.47 ms)**
Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 07:00:42
End at: 2018-06-20 07:01:12
Local clock offset: -0.034 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 51.726 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

End at: 2018-06-20 07:21:43
Local clock offset: 0.045 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.16 Mbit/s
95th percentile per-packet one-way delay: 51.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.16 Mbit/s
95th percentile per-packet one-way delay: 51.542 ms
Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

[Graph showing throughput over time]

[Graph showing packet delay over time]
Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 07:41:53
End at: 2018-06-20 07:42:23
Local clock offset: 0.03 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 51.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 51.934 ms
Loss rate: 0.00%
Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 08:02:29
End at: 2018-06-20 08:02:59
Local clock offset: -0.07 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-06-20 09:56:22
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 97.07 Mbit/s
  95th percentile per-packet one-way delay: 53.146 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 97.07 Mbit/s
  95th percentile per-packet one-way delay: 53.146 ms
  Loss rate: 0.00%
Run 9: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 97.08 Mbit/s)  Flow 1 egress (mean 97.07 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 53.15 ms)
Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 08:23:13
End at: 2018-06-20 08:23:43
Local clock offset: -0.088 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-06-20 09:56:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.36 Mbit/s
95th percentile per-packet one-way delay: 51.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.36 Mbit/s
95th percentile per-packet one-way delay: 51.666 ms
Loss rate: 0.00%
Run 1: Statistics of Verus

Start at: 2018-06-20 04:58:55
End at: 2018-06-20 04:59:25
Local clock offset: 0.094 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-20 09:59:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.68 Mbit/s
95th percentile per-packet one-way delay: 101.547 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 266.68 Mbit/s
95th percentile per-packet one-way delay: 101.547 ms
Loss rate: 0.29%
Run 1: Report of Verus — Data Link

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

Start at: 2018-06-20 05:19:45
End at: 2018-06-20 05:20:15
Local clock offset: -0.264 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-06-20 09:59:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 295.45 Mbit/s
95th percentile per-packet one-way delay: 78.898 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 295.45 Mbit/s
95th percentile per-packet one-way delay: 78.898 ms
Loss rate: 1.20%
Run 2: Report of Verus — Data Link

![Graph of Throughput and Packet Delay]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 299.05 Mbit/s)
  - Flow 1 egress (mean 295.45 Mbit/s)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 78.90 ms)
Run 3: Statistics of Verus

Start at: 2018-06-20 05:40:23
End at: 2018-06-20 05:40:53
Local clock offset: 0.097 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-20 10:00:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.10 Mbit/s
95th percentile per-packet one-way delay: 82.910 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 276.10 Mbit/s
95th percentile per-packet one-way delay: 82.910 ms
Loss rate: 1.62%
Run 3: Report of Verus — Data Link

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

- Flow 1 ingress (mean 280.65 Mbit/s)
- Flow 1 egress (mean 276.10 Mbit/s)

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

- Flow 1 (95th percentile 82.91 ms)
Run 4: Statistics of Verus

Start at: 2018-06-20 06:01:09
End at: 2018-06-20 06:01:39
Local clock offset: 0.424 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-20 10:00:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.93 Mbit/s
95th percentile per-packet one-way delay: 104.853 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 251.93 Mbit/s
95th percentile per-packet one-way delay: 104.853 ms
Loss rate: 1.15%
Run 5: Statistics of Verus

Start at: 2018-06-20 06:21:52
End at: 2018-06-20 06:22:22
Local clock offset: 0.015 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-20 10:00:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.53 Mbit/s
95th percentile per-packet one-way delay: 113.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.53 Mbit/s
95th percentile per-packet one-way delay: 113.819 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

Start at: 2018-06-20 06:42:41
End at: 2018-06-20 06:43:11
Local clock offset: 0.317 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-20 10:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.84 Mbit/s
95th percentile per-packet one-way delay: 96.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 257.84 Mbit/s
95th percentile per-packet one-way delay: 96.736 ms
Loss rate: 0.00%
Run 6: Report of Verus — Data Link

![Graph of throughput and packet delay over time]

- Flow 1 ingress (mean 257.84 Mbit/s)
- Flow 1 egress (mean 257.84 Mbit/s)
Run 7: Statistics of Verus

Start at: 2018-06-20 07:03:04
End at: 2018-06-20 07:03:34
Local clock offset: -0.027 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-06-20 10:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.28 Mbit/s
95th percentile per-packet one-way delay: 236.634 ms
Loss rate: 4.25%
-- Flow 1:
Average throughput: 257.28 Mbit/s
95th percentile per-packet one-way delay: 236.634 ms
Loss rate: 4.25%
Run 7: Report of Verus — Data Link

---

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

Throughput (Mbps) vs. Time (s)

- Flow 1 ingress (mean 268.70 Mbit/s)
- Flow 1 egress (mean 257.28 Mbit/s)

---

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

Per packet one way delay (ms) vs. Time (s)

- Flow 1 (95th percentile 236.63 ms)

---
Run 8: Statistics of Verus

Start at: 2018-06-20 07:23:37
End at: 2018-06-20 07:24:07
Local clock offset: 0.063 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-20 10:01:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.35 Mbit/s
95th percentile per-packet one-way delay: 137.135 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 223.35 Mbit/s
95th percentile per-packet one-way delay: 137.135 ms
Loss rate: 0.86%
Run 8: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 225.32 Mbit/s)**
- **Flow 1 egress (mean 223.35 Mbit/s)**

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

- **Flow 1 (95th percentile 137.13 ms)**
Run 9: Statistics of Verus

Start at: 2018-06-20 07:44:19
End at: 2018-06-20 07:44:49
Local clock offset: -0.006 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-20 10:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.33 Mbit/s
95th percentile per-packet one-way delay: 139.737 ms
Loss rate: 0.09%

-- Flow 1:
Average throughput: 243.33 Mbit/s
95th percentile per-packet one-way delay: 139.737 ms
Loss rate: 0.09%
Run 9: Report of Verus — Data Link
Run 10: Statistics of Verus

Start at: 2018-06-20 08:04:53
End at: 2018-06-20 08:05:23
Local clock offset: -0.395 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-20 10:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.13 Mbit/s
95th percentile per-packet one-way delay: 98.917 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 299.13 Mbit/s
95th percentile per-packet one-way delay: 98.917 ms
Loss rate: 0.48%
Run 10: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 05:15:45
End at: 2018-06-20 05:16:15
Local clock offset: 0.151 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-20 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.07 Mbit/s
95th percentile per-packet one-way delay: 69.331 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 352.07 Mbit/s
95th percentile per-packet one-way delay: 69.331 ms
Loss rate: 0.06%
Run 1: Report of PCC-Vivace — Data Link

![Diagram 1: Throughput over time](image1)

Flow 1 ingress (mean 352.31 Mbit/s)  Flow 1 egress (mean 352.07 Mbit/s)

![Diagram 2: Packet delay over time](image2)

Flow 1 (95th percentile 69.33 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 05:36:27
End at: 2018-06-20 05:36:57
Local clock offset: 0.121 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-20 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.77 Mbit/s
95th percentile per-packet one-way delay: 81.846 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 305.77 Mbit/s
95th percentile per-packet one-way delay: 81.846 ms
Loss rate: 0.10%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet latency over time for Run 2.]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 306.68 Mbps)
  - Flow 1 egress (mean 305.77 Mbps)

- **Latency (ms):**
  - Flow 1 (95th percentile 61.85 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 05:57:12
End at: 2018-06-20 05:57:42
Local clock offset: 0.039 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-20 10:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.66 Mbit/s
95th percentile per-packet one-way delay: 74.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 345.66 Mbit/s
95th percentile per-packet one-way delay: 74.180 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 06:17:56
End at: 2018-06-20 06:18:26
Local clock offset: 0.421 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-20 10:06:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 334.72 Mbit/s
95th percentile per-packet one-way delay: 52.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 334.72 Mbit/s
95th percentile per-packet one-way delay: 52.590 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph 1: Throughput vs Time] (Flow 1 ingress (mean 334.71 Mbit/s), Flow 1 egress (mean 334.72 Mbit/s))

![Graph 2: Per-packet one-way delay vs Time] (Flow 1 (95th percentile 52.59 ms))
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 06:38:43
End at: 2018-06-20 06:39:13
Local clock offset: 0.365 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-20 10:07:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.72 Mbit/s
95th percentile per-packet one-way delay: 51.931 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 350.72 Mbit/s
95th percentile per-packet one-way delay: 51.931 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

![Graph showing throughput over time for Flow 1 ingress and egress.]
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 06:59:14
End at: 2018-06-20 06:59:44
Local clock offset: -0.005 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-06-20 10:07:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.09 Mbit/s
95th percentile per-packet one-way delay: 116.768 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 344.09 Mbit/s
95th percentile per-packet one-way delay: 116.768 ms
Loss rate: 0.28%
Run 6: Report of PCC-Vivace — Data Link

![Graph of Throughput vs Time](image1)

- **Flow 1 ingress (mean 345.05 Mbit/s)**
- **Flow 1 egress (mean 344.09 Mbit/s)**

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

- **Flow 1 (95th percentile 116.77 ms)**

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Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 07:19:45
End at: 2018-06-20 07:20:15
Local clock offset: 0.031 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-20 10:08:44
# Datalink statistics
-- Total of 1 flow:
    Average throughput: 346.00 Mbit/s
    95th percentile per-packet one-way delay: 101.597 ms
    Loss rate: 0.00%
-- Flow 1:
    Average throughput: 346.00 Mbit/s
    95th percentile per-packet one-way delay: 101.597 ms
    Loss rate: 0.00%
Run 7: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per packet one way delay (ms)]
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 07:40:24
End at: 2018-06-20 07:40:54
Local clock offset: -0.343 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-20 10:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.83 Mbit/s
95th percentile per-packet one-way delay: 70.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 353.83 Mbit/s
95th percentile per-packet one-way delay: 70.254 ms
Loss rate: 0.00%
Run 8: Report of PCC-Vivace — Data Link

![Graph showing throughput and delay over time]

Throughput (Mb/s)

Flow 1 ingress (mean 353.83 Mb/s)  Flow 1 egress (mean 353.83 Mb/s)

Packet delay (ms)

Flow 1 (95th percentile 70.25 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 08:01:04
End at: 2018-06-20 08:01:34
Local clock offset: -0.47 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-06-20 10:09:09
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 299.89 Mbit/s
  95th percentile per-packet one-way delay: 57.141 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 299.89 Mbit/s
  95th percentile per-packet one-way delay: 57.141 ms
  Loss rate: 0.00%
Run 9: Report of PCC-Vivace — Data Link

![Graph showing throughput over time with peak at Time (s) 10, and another peak at 20.]

- Flow 1 ingress (mean 299.89 Mbit/s)
- Flow 1 egress (mean 299.89 Mbit/s)

![Graph showing packet delay over time with sporadic spikes at Time (s) 10, 20, and 30.]

- Flow 1 (95th percentile 57.14 ms)
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 08:21:46
End at: 2018-06-20 08:22:16
Local clock offset: -0.045 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 321.28 Mbit/s
95th percentile per-packet one-way delay: 87.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 321.28 Mbit/s
95th percentile per-packet one-way delay: 87.900 ms
Loss rate: 0.00%
Run 10: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 321.28 Mbit/s)  Flow 1 egress (mean 321.28 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 87.90 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-06-20 05:13:34
End at: 2018-06-20 05:14:04
Local clock offset: 0.142 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 50.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 50.823 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-06-20 05:34:17
End at: 2018-06-20 05:34:47
Local clock offset: -0.279 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 51.285 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2018-06-20 05:55:01
End at: 2018-06-20 05:55:31
Local clock offset: 0.072 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 50.525 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 50.525 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

![Throughput Graph](image)

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

![Delay Graph](image)

- **Flow 1 (95th percentile 50.52 ms)**
Run 4: Statistics of WebRTC media

Start at: 2018-06-20 06:15:45
End at: 2018-06-20 06:16:15
Local clock offset: -0.007 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and delay over time for WebRTC media.]

Throughput (Mbps)

Time (s)

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

Per-packet one-way delay (ms)

Flow 1 (95th percentile 50.86 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-06-20 06:36:32
End at: 2018-06-20 06:37:02
Local clock offset: 0.303 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 50.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 50.704 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

- **Flow 1 ingress** (mean 2.11 Mbps)
- **Flow 1 egress** (mean 2.11 Mbps)

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

- **Flow 1 (95th percentile 50.70 ms)**
Run 6: Statistics of WebRTC media

Start at: 2018-06-20 06:57:03
End at: 2018-06-20 06:57:33
Local clock offset: 0.368 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 50.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 50.122 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-06-20 07:17:34
End at: 2018-06-20 07:18:04
Local clock offset: 0.391 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 50.321 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-20 07:38:13
End at: 2018-06-20 07:38:43
Local clock offset: -0.306 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 51.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 51.154 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

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

![Graph 2: Per-packet one-way delay](image2.png)
Run 9: Statistics of WebRTC media

Start at: 2018-06-20 07:58:53
End at: 2018-06-20 07:59:23
Local clock offset: -0.065 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-06-20 08:19:36
End at: 2018-06-20 08:20:06
Local clock offset: -0.023 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-20 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

![Graph showing data link throughput over time for two flows with mean 1.93 Mbit/s each.](image1.png)

![Graph showing per-packet one-way delay over time for Flow 1 with 95th percentile 50.74 ms.](image2.png)