Pantheon Report

Generated at 2018-06-20 09:58:17 (UTC).
Data path: GCE Sydney Ethernet (local) → GCE Tokyo Ethernet (remote).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against time.google.com and have been applied
to correct the timestamps in logs.

Git summary:
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436deb4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464db1b39
third_party/pcc @ 1afc955fa0d6618b623c091a55fdec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cf4f2
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3dbb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af262956293f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d9dfde4735770d143a1fa2851
test from GCE Sydney to GCE Tokyo, 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>
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</thead>
<tbody>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>214.89</td>
<td>54.09</td>
<td>0.00</td>
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<td>Copa</td>
<td>10</td>
<td>146.76</td>
<td>54.72</td>
<td>0.00</td>
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<td>TCP Cubic</td>
<td>10</td>
<td>168.12</td>
<td>57.61</td>
<td>0.00</td>
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<td>843.57</td>
<td>116.66</td>
<td>1.30</td>
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<td>Indigo</td>
<td>10</td>
<td>206.17</td>
<td>53.07</td>
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<td>LEDBAT</td>
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<td>30.15</td>
<td>54.71</td>
<td>0.00</td>
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<td>104.42</td>
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<td>PCC-Expr</td>
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<td>278.75</td>
<td>88.84</td>
<td>0.21</td>
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<td>62.43</td>
<td>50.71</td>
<td>0.00</td>
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<td>53.87</td>
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<td>6.16</td>
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<td>TaoVA-100x</td>
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<td>99.97</td>
<td>53.78</td>
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<td>TCP Vegas</td>
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<td>55.11</td>
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<td>Verus</td>
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<td>255.43</td>
<td>125.35</td>
<td>0.37</td>
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<tr>
<td>PCC-Vivace</td>
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<td>365.58</td>
<td>53.82</td>
<td>0.01</td>
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<tr>
<td>WebRTC media</td>
<td>10</td>
<td>2.01</td>
<td>53.22</td>
<td>0.00</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-20 05:05:16
End at: 2018-06-20 05:05:46
Local clock offset: 0.083 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-06-20 08:35:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.51 Mbit/s
95th percentile per-packet one-way delay: 55.762 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.51 Mbit/s
95th percentile per-packet one-way delay: 55.762 ms
Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps) vs Time (s) for Flow 1 ingress and egress.]

![Graph 2: Per-packet one-way delay (ms) vs Time (s) for Flow 1.]

Flow 1 (95th percentile 55.76 ms)
Run 2: Statistics of TCP BBR

Start at: 2018-06-20 05:25:30
End at: 2018-06-20 05:26:00
Local clock offset: 0.095 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-06-20 08:35:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.14 Mbit/s
95th percentile per-packet one-way delay: 51.335 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 220.14 Mbit/s
95th percentile per-packet one-way delay: 51.335 ms
Loss rate: 0.01%
Run 2: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 220.15 Mbit/s)
- Flow 1 egress (mean 220.14 Mbit/s)

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

- Flow 1 (95th percentile 51.34 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-06-20 05:45:43
End at: 2018-06-20 05:46:13
Local clock offset: -0.129 ms
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2018-06-20 08:35:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.90 Mbit/s
95th percentile per-packet one-way delay: 52.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.90 Mbit/s
95th percentile per-packet one-way delay: 52.583 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 216.88 Mbit/s)
- Flow 1 egress (mean 216.90 Mbit/s)

- Flow 1 (95th percentile 52.58 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-06-20 06:05:58
End at: 2018-06-20 06:06:28
Local clock offset: -0.087 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-20 08:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.66 Mbit/s
95th percentile per-packet one-way delay: 54.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.66 Mbit/s
95th percentile per-packet one-way delay: 54.490 ms
Loss rate: 0.00%
Run 4: Report of TCP BBR — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 219.66 Mbit/s)  Flow 1 egress (mean 219.66 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 54.49 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-06-20 06:26:40
End at: 2018-06-20 06:27:10
Local clock offset: 0.207 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-06-20 08:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.43 Mbit/s
95th percentile per-packet one-way delay: 54.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.43 Mbit/s
95th percentile per-packet one-way delay: 54.162 ms
Loss rate: 0.00%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-06-20 06:47:13
End at: 2018-06-20 06:47:43
Local clock offset: 0.005 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-06-20 08:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.51 Mbit/s
95th percentile per-packet one-way delay: 56.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.51 Mbit/s
95th percentile per-packet one-way delay: 56.894 ms
Loss rate: 0.00%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 213.53 Mbit/s)
- Flow 1 egress (mean 213.51 Mbit/s)

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

- Flow 1 (95th percentile 56.89 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-06-20 07:07:58
End at: 2018-06-20 07:08:28
Local clock offset: 0.212 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2018-06-20 08:35:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.93 Mbit/s
95th percentile per-packet one-way delay: 52.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.93 Mbit/s
95th percentile per-packet one-way delay: 52.934 ms
Loss rate: 0.00%
Run 7: Report of TCP BBR — Data Link
Run 8: Statistics of TCP BBR

Start at: 2018-06-20 07:28:34
End at: 2018-06-20 07:29:04
Local clock offset: 0.147 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-20 08:35:17
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 214.17 Mbit/s
  95th percentile per-packet one-way delay: 55.333 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 214.17 Mbit/s
  95th percentile per-packet one-way delay: 55.333 ms
  Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mb/s)]

- Flow 1 ingress (mean 214.16 Mb/s)
- Flow 1 egress (mean 214.17 Mb/s)

![Graph 2: Ping Pong One Way Delay (ms)]

- Flow 1 (95th percentile 55.33 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-20 07:48:35
End at: 2018-06-20 07:49:05
Local clock offset: -0.02 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-20 08:38:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.07 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 210.07 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.01%
Run 9: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 210.11 Mbps)
- Flow 1 egress (mean 210.07 Mbps)

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

- Flow 1 (95th percentile 53.72 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-06-20 08:08:56
End at: 2018-06-20 08:09:26
Local clock offset: -0.086 ms
Remote clock offset: -1.483 ms

# Below is generated by plot.py at 2018-06-20 08:38:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.60 Mbit/s
95th percentile per-packet one-way delay: 53.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.60 Mbit/s
95th percentile per-packet one-way delay: 53.676 ms
Loss rate: 0.00%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2018-06-20 05:02:22
End at: 2018-06-20 05:02:52
Local clock offset: -0.122 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-06-20 08:41:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.31 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.31 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

![Diagram](Image)

**Throughput (Mbps):**

- Flow 1 ingress (mean 202.33 Mbps)
- Flow 1 egress (mean 202.31 Mbps)

**Round-trip delay (ms):**

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

Start at: 2018-06-20 05:22:51
End at: 2018-06-20 05:23:21
Local clock offset: -0.001 ms
Remote clock offset: -1.233 ms

# Below is generated by plot.py at 2018-06-20 08:41:59
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 46.59 Mbit/s
  95th percentile per-packet one-way delay: 52.618 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 46.59 Mbit/s
  95th percentile per-packet one-way delay: 52.618 ms
  Loss rate: 0.00%
Run 2: Report of Copa — Data Link

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

- Flow 1 ingress (mean 46.59 Mbps/s)
- Flow 1 egress (mean 46.59 Mbps/s)

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

Flow 1 (95th percentile 52.62 ms)
Run 3: Statistics of Copa

Start at: 2018-06-20 05:43:01
End at: 2018-06-20 05:43:31
Local clock offset: -0.06 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-06-20 08:41:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.03 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.03 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 58.03 Mbit/s)
- **Flow 1 egress** (mean 58.03 Mbit/s)

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

- **Flow 1** (95th percentile 53.91 ms)
Run 4: Statistics of Copa

Start at: 2018-06-20 06:03:13
End at: 2018-06-20 06:03:43
Local clock offset: 0.019 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-06-20 08:41:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.78 Mbit/s
95th percentile per-packet one-way delay: 53.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.78 Mbit/s
95th percentile per-packet one-way delay: 53.906 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-06-20 06:23:52
End at: 2018-06-20 06:24:22
Local clock offset: -0.015 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-20 08:41:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.66 Mbit/s
95th percentile per-packet one-way delay: 53.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.66 Mbit/s
95th percentile per-packet one-way delay: 53.218 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Diagram 1: Throughput (Mbps)]

Flow 1 ingress (mean 133.67 Mbps)  Flow 1 egress (mean 133.66 Mbps)

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

Flow 1 (95th percentile 53.22 ms)
Run 6: Statistics of Copa

Start at: 2018-06-20 06:44:11
End at: 2018-06-20 06:44:41
Local clock offset: 0.064 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.56 Mbit/s
95th percentile per-packet one-way delay: 61.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 281.56 Mbit/s
95th percentile per-packet one-way delay: 61.488 ms
Loss rate: 0.00%
Run 7: Statistics of Copa

Start at: 2018-06-20 07:05:06
End at: 2018-06-20 07:05:36
Local clock offset: -0.021 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.39 Mbit/s
95th percentile per-packet one-way delay: 53.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.39 Mbit/s
95th percentile per-packet one-way delay: 53.491 ms
Loss rate: 0.00%
Run 7: Report of Copa — Data Link

[Graph showing throughput and packet delay over time]

Flow 1 ingress (mean 188.39 Mbit/s)
Flow 1 egress (mean 188.39 Mbit/s)
Flow 1 (95th percentile 53.49 ms)
Run 8: Statistics of Copa

Start at: 2018-06-20 07:25:43
End at: 2018-06-20 07:26:13
Local clock offset: -0.172 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.62 Mbit/s
95th percentile per-packet one-way delay: 56.595 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.62 Mbit/s
95th percentile per-packet one-way delay: 56.595 ms
Loss rate: 0.00%
Run 8: Report of Copa — Data Link

![Graph of throughput over time for Flow 1 ingress and egress with mean 176.62 Mbit/s](image1)

![Graph of per-packet one-way delay for Flow 1 with 95th percentile 56.59 ms](image2)
Run 9: Statistics of Copa

Start at: 2018-06-20 07:45:53
End at: 2018-06-20 07:46:23
Local clock offset: -0.1 ms
Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.06 Mbit/s
95th percentile per-packet one-way delay: 53.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 101.06 Mbit/s
95th percentile per-packet one-way delay: 53.859 ms
Loss rate: 0.00%
Run 9: Report of Copa — Data Link

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

- Flow 1 ingress (mean 101.06 Mbit/s)
- Flow 1 egress (mean 101.06 Mbit/s)

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

- Flow 1 (95th percentile 53.06 ms)
Run 10: Statistics of Copa

Start at: 2018-06-20 08:06:09
End at: 2018-06-20 08:06:39
Local clock offset: -0.118 ms
Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.63 Mbit/s
95th percentile per-packet one-way delay: 54.487 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 148.63 Mbit/s
95th percentile per-packet one-way delay: 54.487 ms
Loss rate: 0.01%
Run 10: Report of Copa — Data Link

![Graph of throughput and delay over time for Flow 1 with ingress and egress rates of 148.64 Mbit/s and 148.63 Mbit/s respectively.]

![Graph of per-packet one-way delay for Flow 1 with 95th percentile of 54.49 ms.]

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Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 05:12:57
End at: 2018-06-20 05:13:27
Local clock offset: 0.008 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.15 Mbit/s
95th percentile per-packet one-way delay: 58.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.15 Mbit/s
95th percentile per-packet one-way delay: 58.723 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 219.14 Mbit/s)
- Flow 1 egress (mean 219.15 Mbit/s)

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

- Flow 1 (95th percentile 58.72 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 05:33:05
End at: 2018-06-20 05:33:35
Local clock offset: 0.052 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-06-20 08:44:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.71 Mbit/s
95th percentile per-packet one-way delay: 57.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.71 Mbit/s
95th percentile per-packet one-way delay: 57.717 ms
Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and delay over time]

- **Throughput** (Mbps):
  - Flow 1 ingress (mean 180.73 Mbit/s)
  - Flow 1 egress (mean 180.71 Mbit/s)

- **Delay (ms)**:
  - Flow 1 (99th percentile 57.72 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 05:53:20
End at: 2018-06-20 05:53:50
Local clock offset: 0.195 ms
Remote clock offset: 1.027 ms

# Below is generated by plot.py at 2018-06-20 08:45:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.00 Mbit/s
95th percentile per-packet one-way delay: 59.326 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.00 Mbit/s
95th percentile per-packet one-way delay: 59.326 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 06:13:53
End at: 2018-06-20 06:14:23
Local clock offset: 0.048 ms
Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2018-06-20 08:45:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.72 Mbit/s
95th percentile per-packet one-way delay: 58.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.72 Mbit/s
95th percentile per-packet one-way delay: 58.504 ms
Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

![Throughput Graph](image1)

![Per-packet one-way delay Graph](image2)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 06:34:16
End at: 2018-06-20 06:34:46
Local clock offset: -0.1 ms
Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2018-06-20 08:45:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.24 Mbit/s
95th percentile per-packet one-way delay: 55.418 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 151.24 Mbit/s
95th percentile per-packet one-way delay: 55.418 ms
Loss rate: 0.01%
Run 5: Report of TCP Cubic — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 151.25 Mbit/s)
- Flow 1 egress (mean 151.24 Mbit/s)

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

- Flow 1 (95th percentile 55.42 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 06:55:09
End at: 2018-06-20 06:55:39
Local clock offset: -0.017 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-20 08:45:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.25 Mbit/s
95th percentile per-packet one-way delay: 59.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.25 Mbit/s
95th percentile per-packet one-way delay: 59.827 ms
Loss rate: 0.00%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 07:15:53
End at: 2018-06-20 07:16:23
Local clock offset: -0.096 ms
Remote clock offset: 1.272 ms

# Below is generated by plot.py at 2018-06-20 08:46:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.90 Mbit/s
95th percentile per-packet one-way delay: 58.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.90 Mbit/s
95th percentile per-packet one-way delay: 58.480 ms
Loss rate: 0.00%
Run 7: Report of TCP Cubic — Data Link
Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 07:36:11
End at: 2018-06-20 07:36:41
Local clock offset: -0.02 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2018-06-20 08:46:39
# Datalink statistics
# Total of 1 flow:
Average throughput: 141.22 Mbit/s
95th percentile per-packet one-way delay: 54.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 141.22 Mbit/s
95th percentile per-packet one-way delay: 54.748 ms
Loss rate: 0.00%
Run 8: Report of TCP Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 141.20 Mbit/s)  Flow 1 egress (mean 141.22 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.75 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 07:56:20
End at: 2018-06-20 07:56:50
Local clock offset: -0.054 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-20 08:46:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.97 Mbit/s
95th percentile per-packet one-way delay: 57.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.97 Mbit/s
95th percentile per-packet one-way delay: 57.245 ms
Loss rate: 0.00%
Run 9: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 142.97 Mbit/s)
- Flow 1 egress (mean 142.97 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 57.24 ms)

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Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 08:16:40
End at: 2018-06-20 08:17:10
Local clock offset: -0.103 ms
Remote clock offset: 0.995 ms

# Below is generated by plot.py at 2018-06-20 08:46:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.05 Mbit/s
95th percentile per-packet one-way delay: 56.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.05 Mbit/s
95th percentile per-packet one-way delay: 56.118 ms
Loss rate: 0.00%
Run 10: Report of TCP Cubic — Data Link

![Graph of Throughput vs Time](Image)

- **Throughput (Mbps)**:
  - **Flow 1 ingress (mean 113.07 Mbps)**
  - **Flow 1 egress (mean 113.05 Mbps)**

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

- **Per-packet one-way delay (ms)**:
  - Flow 1 (95th percentile 56.12 ms)
Run 1: Statistics of FillP

Start at: 2018-06-20 05:06:31
End at: 2018-06-20 05:07:01
Local clock offset: -0.032 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-06-20 09:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 835.93 Mbit/s
95th percentile per-packet one-way delay: 118.146 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 835.93 Mbit/s
95th percentile per-packet one-way delay: 118.146 ms
Loss rate: 1.12%
Run 1: Report of FillP — Data Link

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

**Flow 1 ingress (mean 845.37 Mbit/s)**

**Flow 1 egress (mean 835.93 Mbit/s)**

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

**Flow 1 (95th percentile 118.15 ms)**
Run 2: Statistics of FillP

Start at: 2018-06-20 05:26:46
End at: 2018-06-20 05:27:16
Local clock offset: 0.07 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-20 09:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 822.97 Mbit/s
95th percentile per-packet one-way delay: 123.496 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 822.97 Mbit/s
95th percentile per-packet one-way delay: 123.496 ms
Loss rate: 1.86%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2018-06-20 05:46:59
End at: 2018-06-20 05:47:29
Local clock offset: -0.15 ms
Remote clock offset: -1.271 ms

# Below is generated by plot.py at 2018-06-20 09:03:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 766.92 Mbit/s
95th percentile per-packet one-way delay: 124.173 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 766.92 Mbit/s
95th percentile per-packet one-way delay: 124.173 ms
Loss rate: 3.09%
Run 3: Report of FillP — Data Link

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

- Flow 1 ingress (mean 791.34 Mbps)
- Flow 1 egress (mean 766.92 Mbps)

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

- Flow 1 (95th percentile 124.17 ms)
Run 4: Statistics of FillP

Start at: 2018-06-20 06:07:14
End at: 2018-06-20 06:07:44
Local clock offset: 0.048 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-06-20 09:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 829.48 Mbit/s
95th percentile per-packet one-way delay: 123.923 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 829.48 Mbit/s
95th percentile per-packet one-way delay: 123.923 ms
Loss rate: 2.15%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2018-06-20 06:27:56
End at: 2018-06-20 06:28:26
Local clock offset: -0.021 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-20 09:03:33
# Datalink statistics

-- Total of 1 flow:
Average throughput: 801.70 Mbit/s
95th percentile per-packet one-way delay: 119.452 ms
Loss rate: 0.91%

-- Flow 1:
Average throughput: 801.70 Mbit/s
95th percentile per-packet one-way delay: 119.452 ms
Loss rate: 0.91%
Run 5: Report of FillP — Data Link

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

- Flow 1 ingress (mean 809.20 Mbps)
- Flow 1 egress (mean 801.79 Mbps)

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

- Flow 1 (95th percentile 119.45 ms)
Run 6: Statistics of FillP

Start at: 2018-06-20 06:48:29
End at: 2018-06-20 06:48:59
Local clock offset: -0.133 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-20 09:04:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 858.57 Mbit/s
95th percentile per-packet one-way delay: 123.242 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 858.57 Mbit/s
95th percentile per-packet one-way delay: 123.242 ms
Loss rate: 1.41%
Run 6: Report of FillP — Data Link

![Graph of throughput over time with two lines indicating flow ingress and egress rates.]

![Graph of per packet one-way delay with a line indicating flow 1's 95th percentile delay.]

Flow 1 ingress (mean 870.91 Mb/s) and Flow 1 egress (mean 858.57 Mb/s)
Run 7: Statistics of FillP

Start at: 2018-06-20 07:09:14
End at: 2018-06-20 07:09:44
Local clock offset: -0.046 ms
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2018-06-20 09:05:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 891.12 Mbit/s
95th percentile per-packet one-way delay: 94.722 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 891.12 Mbit/s
95th percentile per-packet one-way delay: 94.722 ms
Loss rate: 0.39%
Run 7: Report of FillP — Data Link

[Graph 1: Throughput vs Time (Mbps)]

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

Legend:
- Flow 1 ingress (mean 894.63 Mbps)
- Flow 1 egress (mean 891.12 Mbps)

- Flow 1 (95th percentile 94.72 ms)
Run 8: Statistics of FillP

Start at: 2018-06-20 07:29:50
End at: 2018-06-20 07:30:20
Local clock offset: 0.237 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2018-06-20 09:05:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 872.82 Mbit/s
95th percentile per-packet one-way delay: 103.225 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 872.82 Mbit/s
95th percentile per-packet one-way delay: 103.225 ms
Loss rate: 0.56%
Run 8: Report of FillP — Data Link

![Graph comparing throughput and delay over time for different flows.]

- **Flow 1 Ingress (mean 877.76 Mb/s)**
- **Flow 1 Egress (mean 872.82 Mb/s)**

- **Flow 1 (95th percentile 103.22 ms)**
Run 9: Statistics of FillP

Start at: 2018-06-20 07:49:51
End at: 2018-06-20 07:50:21
Local clock offset: -0.058 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 904.55 Mbit/s
95th percentile per-packet one-way delay: 115.024 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 904.55 Mbit/s
95th percentile per-packet one-way delay: 115.024 ms
Loss rate: 0.20%
Run 9: Report of FillP — Data Link

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

- **Flow 1 ingress (mean 906.26 Mbps)**
- **Flow 1 egress (mean 904.35 Mbps)**

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

- **Flow 1 (95th percentile 115.02 ms)**
Run 10: Statistics of FillP

Start at: 2018-06-20 08:10:12
End at: 2018-06-20 08:10:42
Local clock offset: 0.032 ms
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 851.61 Mbit/s
95th percentile per-packet one-way delay: 121.157 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 851.61 Mbit/s
95th percentile per-packet one-way delay: 121.157 ms
Loss rate: 1.29%
Run 10: Report of FillP — Data Link

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

*Flow 1 ingress (mean 862.81 Mbps)  Flow 1 egress (mean 851.61 Mbps)*

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

*Flow 1 (95th percentile 121.16 ms)*
Run 1: Statistics of Indigo

Start at: 2018-06-20 05:10:35
End at: 2018-06-20 05:11:05
Local clock offset: ~0.032 ms
Remote clock offset: ~0.12 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 162.44 Mbit/s
  95th percentile per-packet one-way delay: 53.675 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 162.44 Mbit/s
  95th percentile per-packet one-way delay: 53.675 ms
  Loss rate: 0.02%
Run 1: Report of Indigo — Data Link

![Graph 1](image1)

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

Start at: 2018-06-20 05:30:41
End at: 2018-06-20 05:31:11
Local clock offset: -0.017 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 197.38 Mbit/s
  95th percentile per-packet one-way delay: 53.466 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 197.38 Mbit/s
  95th percentile per-packet one-way delay: 53.466 ms
  Loss rate: 0.00%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2018-06-20 05:50:55
End at: 2018-06-20 05:51:25
Local clock offset: 0.1 ms
Remote clock offset: 1.202 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.74 Mbit/s
95th percentile per-packet one-way delay: 54.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.74 Mbit/s
95th percentile per-packet one-way delay: 54.412 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 221.74 Mbit/s)
  - Flow 1 egress (mean 221.74 Mbit/s)

- **Packet one-way delay (ms):**
  - Flow 1 (95th percentile 54.41 ms)
Run 4: Statistics of Indigo

Start at: 2018-06-20 06:11:28
End at: 2018-06-20 06:11:58
Local clock offset: 0.248 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.78 Mbit/s
95th percentile per-packet one-way delay: 52.808 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.78 Mbit/s
95th percentile per-packet one-way delay: 52.808 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 206.78 Mbps)
- Flow 1 egress (mean 206.78 Mbps)

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

- Flow 1 (95th percentile 52.81 ms)
Run 5: Statistics of Indigo

Start at: 2018-06-20 06:31:51
End at: 2018-06-20 06:32:21
Local clock offset: 0.221 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.75 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.75 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link
Run 6: Statistics of Indigo

Start at: 2018-06-20 06:52:43
End at: 2018-06-20 06:53:13
Local clock offset: -0.06 ms
Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.51 Mbit/s
95th percentile per-packet one-way delay: 49.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.51 Mbit/s
95th percentile per-packet one-way delay: 49.868 ms
Loss rate: 0.00%
Run 6: Report of Indigo — Data Link

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![Graph 1](image1.png)

**Flow 1 ingress (mean 228.50 Mbit/s)**

**Flow 1 egress (mean 228.51 Mbit/s)**

---

![Graph 2](image2.png)

**Flow 1 (95th percentile 49.87 ms)**
Run 7: Statistics of Indigo

Start at: 2018-06-20 07:13:27
End at: 2018-06-20 07:13:57
Local clock offset: -0.039 ms
Remote clock offset: -1.32 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.29 Mbit/s
95th percentile per-packet one-way delay: 52.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.29 Mbit/s
95th percentile per-packet one-way delay: 52.082 ms
Loss rate: 0.00%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-20 07:33:47
End at: 2018-06-20 07:34:17
Local clock offset: -0.019 ms
Remote clock offset: 1.275 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.64 Mbit/s
95th percentile per-packet one-way delay: 55.044 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.64 Mbit/s
95th percentile per-packet one-way delay: 55.044 ms
Loss rate: 0.00%
Run 8: Report of Indigo — Data Link

![Graph showing throughput over time with two data lines: Flow 1 ingress (mean 139.64 Mbit/s) and Flow 1 egress (mean 139.64 Mbit/s).]

![Graph showing per-packet delay with a data point indicating Flow 1 (95th percentile 55.04 ms).]
Run 9: Statistics of Indigo

Start at: 2018-06-20 07:53:55
End at: 2018-06-20 07:54:25
Local clock offset: 0.092 ms
Remote clock offset: -1.378 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 210.78 Mbit/s
  95th percentile per-packet one-way delay: 52.227 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 210.78 Mbit/s
  95th percentile per-packet one-way delay: 52.227 ms
  Loss rate: 0.00%
Run 9: Report of Indigo — Data Link
Run 10: Statistics of Indigo

Start at: 2018-06-20 08:14:16
End at: 2018-06-20 08:14:46
Local clock offset: 0.077 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.36 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.36 Mbit/s
95th percentile per-packet one-way delay: 53.642 ms
Loss rate: 0.00%
Run 10: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 195.38 Mbit/s)**
- **Flow 1 egress (mean 195.36 Mbit/s)**

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

- **Flow 1 (95th percentile 53.64 ms)**
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 05:00:08
End at: 2018-06-20 05:00:38
Local clock offset: -0.093 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 55.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 55.185 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graph showing throughput and per-packet one-way delay over time with two lines indicating Flow 1 ingress and egress traffic with mean speeds of 32.28 Mbps and 32.27 Mbps respectively.]
Run 2: Statistics of LEDBAT

Start at: 2018-06-20 05:20:38
End at: 2018-06-20 05:21:08
Local clock offset: -0.087 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 55.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 55.255 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 31.74 Mbit/s)**
- **Flow 1 egress (mean 31.74 Mbit/s)**

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

- **Flow 1 (95th percentile 55.26 ms)**
Run 3: Statistics of LEDBAT

Start at: 2018-06-20 05:40:48
End at: 2018-06-20 05:41:18
Local clock offset: 0.184 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 54.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 54.522 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Graph showing throughput and delay over time for Flow 1 ingress and egress. The graph indicates the throughput in Mbps over time, with two lines representing different data flows. The lower graph shows the per-packet one-way delay in milliseconds over time, with a marker indicating the 95th percentile delay.]
Run 4: Statistics of LEDBAT

Start at: 2018-06-20 06:01:00
End at: 2018-06-20 06:01:30
Local clock offset: 0.051 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 54.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 54.596 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

![Graphs showing throughput and packet delay over time]

Flow 1 ingress (mean 30.66 Mbit/s)  
Flow 1 egress (mean 30.66 Mbit/s)

Flow 1 (95th percentile 54.60 ms)
Run 5: Statistics of LEDBAT

Start at: 2018-06-20 06:21:39
End at: 2018-06-20 06:22:09
Local clock offset: 0.137 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 54.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 54.475 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Start at: 2018-06-20 06:41:57
End at: 2018-06-20 06:42:27
Local clock offset: 0.154 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 54.878 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 54.878 ms
Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link

![Graph of network throughput and packet loss over time]

- **Flow 1 ingress (mean 32.54 Mbit/s)**
- **Flow 1 egress (mean 32.54 Mbit/s)**

![Graph of packet loss and delay over time]

- **Flow 1 (95th percentile 54.88 ms)**
Run 7: Statistics of LEDBAT

Start at: 2018-06-20 07:02:53
End at: 2018-06-20 07:03:23
Local clock offset: 0.09 ms
Remote clock offset: -1.329 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 53.199 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 53.199 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 19.70 Mbit/s)  Flow 1 egress (mean 19.70 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

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

Start at: 2018-06-20 07:23:29
End at: 2018-06-20 07:23:59
Local clock offset: 0.042 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 54.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 54.745 ms
Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link

![Throughput Graph]

![Delay Graph]
Run 9: Statistics of LEDBAT

Start at: 2018-06-20 07:43:39
End at: 2018-06-20 07:44:09
Local clock offset: -0.194 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 55.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 55.355 ms
Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

![Graph of throughput over time](image1)

- **Flow 1 ingress (mean 33.50 Mbit/s)**
- **Flow 1 egress (mean 33.49 Mbit/s)**

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

- **Flow 1 95th percentile 55.35 ms**
Run 10: Statistics of LEDBAT

Start at: 2018-06-20 08:03:56
End at: 2018-06-20 08:04:26
Local clock offset: 0.009 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.53 Mbit/s
95th percentile per-packet one-way delay: 54.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.53 Mbit/s
95th percentile per-packet one-way delay: 54.843 ms
Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link

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

Legend:
- **Flow 1 ingress (mean 33.53 Mbps)**
- **Flow 1 egress (mean 33.53 Mbps)**

**Per-packet one-way delay (ms):**
- **Flow 1 (95th percentile 54.84 ms)**
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 04:57:35  
End at: 2018-06-20 04:58:05  
Local clock offset: 0.071 ms  
Remote clock offset: -1.391 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.81 Mbit/s
95th percentile per-packet one-way delay: 96.406 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 601.81 Mbit/s
95th percentile per-packet one-way delay: 96.406 ms
Loss rate: 0.12%
Run 1: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 602.55 Mbps)  Flow 1 egress (mean 601.81 Mbps)

Per packet one way delay (ms)

Flow 1 (95th percentile 96.41 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-20 05:18:07
End at: 2018-06-20 05:18:37
Local clock offset: 0.116 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 540.93 Mbit/s
95th percentile per-packet one-way delay: 193.643 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 540.93 Mbit/s
95th percentile per-packet one-way delay: 193.643 ms
Loss rate: 1.39%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 05:38:17
End at: 2018-06-20 05:38:47
Local clock offset: 0.162 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 536.90 Mbit/s
95th percentile per-packet one-way delay: 199.556 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 536.90 Mbit/s
95th percentile per-packet one-way delay: 199.556 ms
Loss rate: 4.59%
Run 3: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress** (mean 562.73 Mbit/s)
- **Flow 1 egress** (mean 536.90 Mbit/s)

![Graph 2: Packet delay (ms)](image)

- **Flow 1 (95th percentile 199.56 ms)**
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 05:58:27
End at: 2018-06-20 05:58:57
Local clock offset: 0.17 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.19 Mbit/s
95th percentile per-packet one-way delay: 89.571 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 594.19 Mbit/s
95th percentile per-packet one-way delay: 89.571 ms
Loss rate: 0.26%
Run 4: Report of PCC-Allegro — Data Link

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

Flow 1 ingress (mean 595.72 Mbps)
Flow 1 egress (mean 594.19 Mbps)

Graph 2: Packet latency (ms) vs. Time (s)

Flow 1 (95th percentile 89.57 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 06:19:08
End at: 2018-06-20 06:19:38
Local clock offset: -0.054 ms
Remote clock offset: -1.27 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.56 Mbit/s
95th percentile per-packet one-way delay: 59.047 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 579.56 Mbit/s
95th percentile per-packet one-way delay: 59.047 ms
Loss rate: 0.18%
Run 5: Report of PCC-Allegro — Data Link

![Graph of throughput over time](image1)

- **Flow 1 ingress (mean 580.61 Mbit/s)**
- **Flow 1 egress (mean 579.56 Mbit/s)**

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

- **Flow 1 (95th percentile 59.05 ms)**
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 06:39:29
End at: 2018-06-20 06:40:00
Local clock offset: -0.142 ms
Remote clock offset: -1.306 ms

# Below is generated by plot.py at 2018-06-20 09:21:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 482.80 Mbit/s
95th percentile per-packet one-way delay: 53.290 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 482.80 Mbit/s
95th percentile per-packet one-way delay: 53.290 ms
Loss rate: 0.17%
Run 6: Report of PCC-Allegro — Data Link

![Graph 1: Throughput vs. Time]

- Flow 1 ingress (mean 483.63 Mbit/s)
- Flow 1 egress (mean 482.60 Mbit/s)

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

- Flow 1 (95th percentile 53.29 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 07:00:22
End at: 2018-06-20 07:00:52
Local clock offset: -0.178 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-20 09:30:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 563.53 Mbit/s
95th percentile per-packet one-way delay: 97.757 ms
Loss rate: 0.28%

-- Flow 1:
Average throughput: 563.53 Mbit/s
95th percentile per-packet one-way delay: 97.757 ms
Loss rate: 0.28%
Run 7: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 565.06 Mbit/s)
- Flow 1 egress (mean 563.53 Mbit/s)

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

- Flow 1 (95th percentile 97.76 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 07:20:57
End at: 2018-06-20 07:21:27
Local clock offset: 0.021 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-20 09:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 602.05 Mbit/s
95th percentile per-packet one-way delay: 89.090 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 602.05 Mbit/s
95th percentile per-packet one-way delay: 89.090 ms
Loss rate: 0.11%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 07:41:10
End at: 2018-06-20 07:41:41
Local clock offset: 0.01 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-06-20 09:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 496.68 Mbit/s
95th percentile per-packet one-way delay: 101.295 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 496.68 Mbit/s
95th percentile per-packet one-way delay: 101.295 ms
Loss rate: 0.30%
Run 9: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 498.26 Mbit/s)
- Flow 1 egress (mean 496.68 Mbit/s)

- Flow 1 (95th percentile 101.30 ms)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 08:01:24
End at: 2018-06-20 08:01:54
Local clock offset: -0.22 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2018-06-20 09:31:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 601.13 Mbit/s
95th percentile per-packet one-way delay: 64.536 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 601.13 Mbit/s
95th percentile per-packet one-way delay: 64.536 ms
Loss rate: 0.08%
Run 10: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 601.71 Mbit/s)
Flow 1 egress (mean 601.13 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 64.54 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 05:16:40
End at: 2018-06-20 05:17:10
Local clock offset: -0.351 ms
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2018-06-20 09:31:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 278.58 Mbit/s
  95th percentile per-packet one-way delay: 75.400 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 278.58 Mbit/s
  95th percentile per-packet one-way delay: 75.400 ms
  Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress** (mean 278.58 Mbps)
- **Flow 1 egress** (mean 278.58 Mbps)

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

- **Flow 1 (95th percentile 75.40 ms)**
Run 2: Statistics of PCC-Expr

Start at: 2018-06-20 05:36:45
End at: 2018-06-20 05:37:15
Local clock offset: 0.046 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-20 09:31:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.11 Mbit/s
95th percentile per-packet one-way delay: 160.245 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 292.11 Mbit/s
95th percentile per-packet one-way delay: 160.245 ms
Loss rate: 1.38%
Run 2: Report of PCC-Expr — Data Link

![Graph showing throughput and latency over time for Flow 1 ingress and egress with mean values.](image)

![Graph showing packet delay over time for Flow 1 with the 95th percentile latency.](image)
Run 3: Statistics of PCC-Expr

Start at: 2018-06-20 05:57:01
End at: 2018-06-20 05:57:31
Local clock offset: 0.034 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-20 09:31:52
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 293.48 Mbit/s
  95th percentile per-packet one-way delay: 79.104 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 293.48 Mbit/s
  95th percentile per-packet one-way delay: 79.104 ms
  Loss rate: 0.26%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 06:17:38
End at: 2018-06-20 06:18:08
Local clock offset: -0.049 ms
Remote clock offset: -1.395 ms

# Below is generated by plot.py at 2018-06-20 09:31:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.03 Mbit/s
95th percentile per-packet one-way delay: 87.890 ms
Loss rate: 0.02%

-- Flow 1:
Average throughput: 243.03 Mbit/s
95th percentile per-packet one-way delay: 87.890 ms
Loss rate: 0.02%
Run 4: Report of PCC-Expr — Data Link

[Graph showing throughput and packet delay over time]
Run 5: Statistics of PCC-Expr

Start at: 2018-06-20 06:37:57
End at: 2018-06-20 06:38:27
Local clock offset: 0.179 ms
Remote clock offset: -1.492 ms

# Below is generated by plot.py at 2018-06-20 09:39:37
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 305.06 Mbit/s
  95th percentile per-packet one-way delay: 87.853 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 305.06 Mbit/s
  95th percentile per-packet one-way delay: 87.853 ms
  Loss rate: 0.00%
Run 5: Report of PCC-Expr — Data Link

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

![Graph 2: Packet Delay vs Time](image2)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 06:58:48
End at: 2018-06-20 06:59:18
Local clock offset: -0.002 ms
Remote clock offset: -1.52 ms

# Below is generated by plot.py at 2018-06-20 09:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.15 Mbit/s
95th percentile per-packet one-way delay: 78.707 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 336.15 Mbit/s
95th percentile per-packet one-way delay: 78.707 ms
Loss rate: 0.11%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 07:19:36
End at: 2018-06-20 07:20:06
Local clock offset: 0.059 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-20 09:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.26 Mbit/s
95th percentile per-packet one-way delay: 55.726 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.26 Mbit/s
95th percentile per-packet one-way delay: 55.726 ms
Loss rate: 0.00%
Run 7: Report of PCC-Expr — Data Link
Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 07:39:50
End at: 2018-06-20 07:40:20
Local clock offset: 0.007 ms
Remote clock offset: -1.147 ms

# Below is generated by plot.py at 2018-06-20 09:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.06 Mbit/s
95th percentile per-packet one-way delay: 56.551 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 228.06 Mbit/s
95th percentile per-packet one-way delay: 56.551 ms
Loss rate: 0.02%
Run 8: Report of PCC-Expr — Data Link
Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 07:59:59
End at: 2018-06-20 08:00:29
Local clock offset: -0.274 ms
Remote clock offset: 1.187 ms

# Below is generated by plot.py at 2018-06-20 09:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.12 Mbit/s
95th percentile per-packet one-way delay: 72.130 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 251.12 Mbit/s
95th percentile per-packet one-way delay: 72.130 ms
Loss rate: 0.21%
Run 9: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 251.66 Mbit/s)**
- **Flow 1 egress (mean 251.12 Mbit/s)**

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

- **Flow 1 (95th percentile 72.13 ms)**
Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 08:20:20
End at: 2018-06-20 08:20:50
Local clock offset: 0.186 ms
Remote clock offset: 1.27 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.70 Mbit/s
95th percentile per-packet one-way delay: 134.832 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 352.70 Mbit/s
95th percentile per-packet one-way delay: 134.832 ms
Loss rate: 0.07%
Run 10: Report of PCC-Expr — Data Link

![Graph 1](image1.png)

**Throughput (Mb/s)**

- Flow 1 ingress (mean 352.95 Mb/s)
- Flow 1 egress (mean 352.70 Mb/s)

![Graph 2](image2.png)

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

- Flow 1 (95th percentile 134.83 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 05:14:13
End at: 2018-06-20 05:14:43
Local clock offset: -0.155 ms
Remote clock offset: -0.143 ms
Run 1: Report of QUIC Cubic — Data Link

![Graph 1: Throughput vs. Time]

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)

![Graph 2: Packet Delay vs. Time]

- Flow 1 (95th percentile 53.97 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 05:34:20
End at: 2018-06-20 05:34:50
Local clock offset: -0.077 ms
Remote clock offset: -0.009 ms
Run 2: Report of QUIC Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.04 Mbit/s)  Flow 1 egress (mean 0.04 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 53.30 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 05:54:35
End at: 2018-06-20 05:55:05
Local clock offset: -0.136 ms
Remote clock offset: 0.068 ms
Run 3: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)

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

- Flow 1 (95th percentile 53.57 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 06:15:07
End at: 2018-06-20 06:15:37
Local clock offset: -0.004 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 50.710 ms
Loss rate: 0.00%

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Run 4: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 62.43 Mbit/s)
- Flow 1 egress (mean 62.43 Mbit/s)

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

- Flow 1 (95th percentile 50.71 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-20 06:35:29
End at: 2018-06-20 06:35:59
Local clock offset: -0.094 ms
Remote clock offset: 0.087 ms
Run 5: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)

- Flow 1 (95th percentile 50.95 ms)
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 06:56:22
End at: 2018-06-20 06:56:52
Local clock offset: -0.005 ms
Remote clock offset: 0.187 ms
Run 6: Report of QUIC Cubic — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 0.06 Mbit/s)  Flow 1 egress (mean 0.06 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.16 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 07:17:09
End at: 2018-06-20 07:17:39
Local clock offset: 0.012 ms
Remote clock offset: -1.407 ms
Run 7: Report of QUIC Cubic — Data Link

**Throughput (Mbps)**

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

**Packet round-trip delay (ms)**

- **Flow 1 (95th percentile 52.23 ms)**
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 07:37:23
End at: 2018-06-20 07:37:53
Local clock offset: -0.101 ms
Remote clock offset: -0.118 ms
Run 8: Report of QUIC Cubic — Data Link

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

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

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

- **Flow 1 (95th percentile 53.40 ms)**

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Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 07:57:33
End at: 2018-06-20 07:58:03
Local clock offset: -0.054 ms
Remote clock offset: -1.501 ms
Run 9: Report of QUIC Cubic — Data Link

![Graph showing throughput and round-trip time over time](image)

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

- **Round-trip time (ms)**
  - **Flow 1 (99th percentile 49.05 ms)**
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 08:17:51
End at: 2018-06-20 08:18:21
Local clock offset: -0.008 ms
Remote clock offset: 1.128 ms
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-06-20 04:59:02
End at: 2018-06-20 04:59:32
Local clock offset: -0.096 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.955 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-06-20 05:19:32
End at: 2018-06-20 05:20:02
Local clock offset: -0.117 ms
Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2018-06-20 05:39:42
End at: 2018-06-20 05:40:12
Local clock offset: 0.051 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.113 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.113 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph showing network performance metrics](graph.png)

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Run 4: Statistics of SCReAM

Start at: 2018-06-20 05:59:54
End at: 2018-06-20 06:00:24
Local clock offset: 0.037 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

![Graph showing network performance metrics over time.](image)

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

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

- **Flow 1 (95th percentile 53.87 ms)**
Run 5: Statistics of SCReAM

Start at: 2018-06-20 06:20:34
End at: 2018-06-20 06:21:04
Local clock offset: 0.317 ms
Remote clock offset: -0.368 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 52.907 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 52.907 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

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

![Graph showing per-packet one-way delay over time with a single line representing Flow 1.]

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

Flow 1 (95th percentile 52.91 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-20 06:40:52
End at: 2018-06-20 06:41:22
Local clock offset: 0.102 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 0.13%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-06-20 07:01:47
End at: 2018-06-20 07:02:17
Local clock offset: ~0.01 ms
Remote clock offset: 1.176 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.071 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link

![Data Link Diagram]

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

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

- Flow 1 (95th percentile 55.07 ms)
Run 8: Statistics of SCReAM

End at: 2018-06-20 07:22:54
Local clock offset: 0.204 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.622 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.622 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link
Run 9: Statistics of SCReAM

Start at: 2018-06-20 07:42:33
End at: 2018-06-20 07:43:03
Local clock offset: 0.054 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)

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

- Flow 1 (95th percentile 53.91 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-20 08:02:50
End at: 2018-06-20 08:03:20
Local clock offset: -0.002 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2018-06-20 05:11:51
End at: 2018-06-20 05:12:21
Local clock offset: -0.044 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 54.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 54.415 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-06-20 05:31:59
End at: 2018-06-20 05:32:29
Local clock offset: -0.212 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 54.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 54.448 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

![Graph of throughput and delay over time showing fluctuations.]

- **Throughput (Mbps)**
- **Time (s)**

- **Flow 1 ingress (mean 5.50 Mbit/s)**
- **Flow 1 egress (mean 5.50 Mbit/s)**

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

- **Flow 1 (95th percentile 54.45 ms)**
Run 3: Statistics of Sprout

Start at: 2018-06-20 05:52:14
End at: 2018-06-20 05:52:44
Local clock offset: -0.16 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 54.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 54.359 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

![Graph showing throughput and per-packet one-way delay over time for Flow 1 with mean 6.83 Mbit/s.]

- **Data link throughput**: Variability over time, with peaks around 8 Mbit/s and dips to nearly 0 Mbit/s.
- **Per-packet one-way delay**: Consistently below 55 ms with occasional spikes to around 51 ms, indicating potential network congestion or latency issues.
Run 4: Statistics of Sprout

Start at: 2018-06-20 06:12:47
End at: 2018-06-20 06:13:17
Local clock offset: -0.087 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 0.01%

-- Flow 1:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 0.01%
Run 4: Report of Sprout — Data Link

[Graphs showing network performance metrics over time, including throughput and packet delay]
Run 5: Statistics of Sprout

Start at: 2018-06-20 06:33:10
End at: 2018-06-20 06:33:40
Local clock offset: 0.062 ms
Remote clock offset: 1.098 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 54.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.30 Mbit/s
95th percentile per-packet one-way delay: 54.784 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 6.30 Mbit/s)**
- **Flow 1 egress (mean 6.30 Mbit/s)**

![Graph of Per-packet end-to-end delay (ms) over Time (s)]

- **Flow 1 (95th percentile 54.78 ms)**
Run 6: Statistics of Sprout

Start at: 2018-06-20 06:54:03
End at: 2018-06-20 06:54:33
Local clock offset: -0.08 ms
Remote clock offset: -1.489 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 52.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 52.610 ms
Loss rate: 0.00%
Run 6: Report of Sprout — Data Link

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

- **Throughput** (Mbps):
  - Flow 1 ingressing (mean 6.22 Mbps)
  - Flow 1 egressing (mean 6.22 Mbps)

- **Packet Delay** (ms):
  - Flow 1 (95th percentile 52.61 ms)
Run 7: Statistics of Sprout

Start at: 2018-06-20 07:14:47
End at: 2018-06-20 07:15:17
Local clock offset: -0.019 ms
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 54.283 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-06-20 07:35:05
End at: 2018-06-20 07:35:35
Local clock offset: 0.211 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 54.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 54.471 ms
Loss rate: 0.00%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

End at: 2018-06-20 07:55:44
Local clock offset: 0.028 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 54.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.55 Mbit/s
95th percentile per-packet one-way delay: 54.187 ms
Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 6.55 Mbit/s)**
- **Flow 1 egress (mean 6.55 Mbit/s)**

- **Per-packet one-way delay:**
  - Flow 1 [95th percentile 54.19 ms]
Run 10: Statistics of Sprout

Start at: 2018-06-20 08:15:34
End at: 2018-06-20 08:16:04
Local clock offset: 0.086 ms
Remote clock offset: -0.348 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 53.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 53.869 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link

![Throughput vs. Time Graph]

- **Flow 1 ingress (mean 7.19 Mbit/s)**
- **Flow 1 egress (mean 7.19 Mbit/s)**

![Per-packet one-way delay Graph]

- **Flow 1 (95th percentile 53.87 ms)**
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 05:09:24
End at: 2018-06-20 05:09:54
Local clock offset: -0.126 ms
Remote clock offset: 1.367 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 56.98 Mbit/s
  95th percentile per-packet one-way delay: 55.036 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 56.98 Mbit/s
  95th percentile per-packet one-way delay: 55.036 ms
  Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

![Graph of network throughput over time]

Flow 1 ingress (mean 56.99 Mbit/s) — Flow 1 egress (mean 56.98 Mbit/s)

![Graph of network latency over time]

Flow 1 (95th percentile 55.04 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 05:29:34
End at: 2018-06-20 05:30:04
Local clock offset: 0.032 ms
Remote clock offset: -0.024 ms
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-20 05:49:45
End at: 2018-06-20 05:50:15
Local clock offset: 0.074 ms
Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
 Average throughput: 44.65 Mbit/s
 95th percentile per-packet one-way delay: 53.727 ms
 Loss rate: 0.01%
-- Flow 1:
 Average throughput: 44.65 Mbit/s
 95th percentile per-packet one-way delay: 53.727 ms
 Loss rate: 0.01%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 44.65 Mbit/s)  Flow 1 egress (mean 44.65 Mbit/s)

Packet delay (ms)

Flow 1 (95th percentile 53.73 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 06:10:02
End at: 2018-06-20 06:10:32
Local clock offset: -0.099 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.05 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.05 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.00%
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 06:30:44
End at: 2018-06-20 06:31:14
Local clock offset: -0.004 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-06-20 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 53.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 53.674 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 15.20 Mbit/s)
- Flow 1 egress (mean 15.20 Mbit/s)

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

- Flow 1 (95th percentile 53.67 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 06:51:17
End at: 2018-06-20 06:51:47
Local clock offset: 0.035 ms
Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.81 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 247.81 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 07:12:08
End at: 2018-06-20 07:12:38
Local clock offset: 0.216 ms
Remote clock offset: 1.188 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.16 Mbit/s
95th percentile per-packet one-way delay: 54.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.16 Mbit/s
95th percentile per-packet one-way delay: 54.561 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link

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**Graph 1:**
- X-axis: Time (s)
- Y-axis: Throughput (Mbps)
- Blue dotted line: Flow 1 ingress (mean 151.16 Mbit/s)
- Blue solid line: Flow 1 egress (mean 151.16 Mbit/s)

**Graph 2:**
- X-axis: Time (s)
- Y-axis: Per-packet one-way delay (ms)
- Blue dots: Flow 1 (95th percentile 54.56 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 07:32:39
End at: 2018-06-20 07:33:09
Local clock offset: 0.189 ms
Remote clock offset: 0.092 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.04 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.04 Mbit/s
95th percentile per-packet one-way delay: 53.712 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 19.04 Mbit/s)
  - Flow 1 egress (mean 19.04 Mbit/s)

- **Packet one-way delay (ms)**
  - Flow 1 (95th percentile 53.71 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 07:52:44
End at: 2018-06-20 07:53:14
Local clock offset: -0.139 ms
Remote clock offset: -0.27 ms
Run 9: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 209.63 Mbit/s)**
- **Flow 1 egress (mean 209.64 Mbit/s)**

![Graph 2: Packet Delay (ms)](image2)

- **Flow 1 (95th percentile 53.82 ms)**
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 08:13:08
End at: 2018-06-20 08:13:38
Local clock offset: -0.129 ms
Remote clock offset: 1.143 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 54.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.91 Mbit/s
95th percentile per-packet one-way delay: 54.957 ms
Loss rate: 0.00%
Run 10: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet delay over time for flow 1.]

- Flow 1 ingress (mean 31.91 Mbit/s)
- Flow 1 egress (mean 31.91 Mbit/s)

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

- Flow 1 (95th percentile 54.96 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 05:08:11
End at: 2018-06-20 05:08:41
Local clock offset: -0.086 ms
Remote clock offset: -1.408 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.85 Mbit/s
95th percentile per-packet one-way delay: 56.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.85 Mbit/s
95th percentile per-packet one-way delay: 56.140 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 148.86 Mbit/s)
- Flow 1 egress (mean 148.85 Mbit/s)

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

- Flow 1 (95th percentile 56.14 ms)
Run 2: Statistics of TCP Vegas

Start at: 2018-06-20 05:28:24
End at: 2018-06-20 05:28:55
Local clock offset: 0.224 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 54.012 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

![Graph of throughput and packet delay over time for Run 2.]
Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 05:48:36
End at: 2018-06-20 05:49:06
Local clock offset: 0.108 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 54.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 54.626 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

![Graph of Throughput and One-Way Delay](image)

- **Throughput**:
  - Flow 1 ingress (mean 62.90 Mbit/s)
  - Flow 1 egress (mean 62.90 Mbit/s)

- **One-Way Delay**:
  - Flow 1 (95th percentile 54.63 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 06:08:52
End at: 2018-06-20 06:09:22
Local clock offset: -0.029 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.12 Mbit/s
95th percentile per-packet one-way delay: 53.965 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.12 Mbit/s
95th percentile per-packet one-way delay: 53.965 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

![Graph of Throughput and Delay]

- Flow 1 ingress (mean 74.11 Mbps)
- Flow 1 egress (mean 74.12 Mbps)
Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 06:29:34
End at: 2018-06-20 06:30:04
Local clock offset: 0.042 ms
Remote clock offset: -0.426 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.25 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link

![Graph of Throughput over Time](image1)

- **Flow 1 ingress** (mean 86.24 Mbit/s)
- **Flow 1 egress** (mean 86.25 Mbit/s)

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

- **Flow 1** (95th percentile 53.94 ms)
Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 06:50:09
End at: 2018-06-20 06:50:39
Local clock offset: 0.081 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-20 09:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 55.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.35 Mbit/s
95th percentile per-packet one-way delay: 55.179 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 07:10:56
End at: 2018-06-20 07:11:26
Local clock offset: 0.146 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-20 09:44:36
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 137.72 Mbit/s
  95th percentile per-packet one-way delay: 53.950 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 137.72 Mbit/s
  95th percentile per-packet one-way delay: 53.950 ms
  Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

![Graph showing throughput over time]

- Flow 1 ingress (mean 137.71 Mbit/s)
- Flow 1 egress (mean 137.72 Mbit/s)

![Graph showing packet delay over time]

- Flow 1 (95th percentile 53.95 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 07:31:30
End at: 2018-06-20 07:32:00
Local clock offset: -0.064 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-06-20 09:44:36
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 58.30 Mbit/s
  95th percentile per-packet one-way delay: 55.135 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 58.30 Mbit/s
  95th percentile per-packet one-way delay: 55.135 ms
  Loss rate: 0.00%
Run 8: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 58.29 Mbps)
- Flow 1 egress (mean 58.30 Mbps)

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

- Flow 1 (95th percentile 55.13 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 07:51:32
End at: 2018-06-20 07:52:02
Local clock offset: -0.07 ms
Remote clock offset: -1.218 ms

# Below is generated by plot.py at 2018-06-20 09:44:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.11 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.11 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.00%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 08:11:51
End at: 2018-06-20 08:12:21
Local clock offset: 0.008 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-20 09:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.83 Mbit/s
95th percentile per-packet one-way delay: 60.268 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 225.83 Mbit/s
95th percentile per-packet one-way delay: 60.268 ms
Loss rate: 0.02%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-06-20 05:15:19
End at: 2018-06-20 05:15:49
Local clock offset: -0.155 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-06-20 09:47:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.41 Mbit/s
95th percentile per-packet one-way delay: 78.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.41 Mbit/s
95th percentile per-packet one-way delay: 78.462 ms
Loss rate: 0.00%
Run 1: Report of Verus — Data Link

![Graphs showing network performance metrics over time.](image-url)
Run 2: Statistics of Verus

Start at: 2018-06-20 05:35:25
End at: 2018-06-20 05:35:55
Local clock offset: -0.137 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-06-20 09:47:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.26 Mbit/s
95th percentile per-packet one-way delay: 73.264 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.26 Mbit/s
95th percentile per-packet one-way delay: 73.264 ms
Loss rate: 0.00%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-06-20 05:55:41
End at: 2018-06-20 05:56:11
Local clock offset: 0.141 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2018-06-20 09:47:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.22 Mbit/s
95th percentile per-packet one-way delay: 152.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.22 Mbit/s
95th percentile per-packet one-way delay: 152.410 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

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

Throughput (Mbps):

- Flow 1 ingress (mean 238.51 Mbps)
- Flow 1 egress (mean 238.22 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 152.41 ms)
Run 4: Statistics of Verus

Start at: 2018-06-20 06:16:16
End at: 2018-06-20 06:16:46
Local clock offset: -0.006 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-06-20 09:48:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.41 Mbit/s
95th percentile per-packet one-way delay: 101.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 268.41 Mbit/s
95th percentile per-packet one-way delay: 101.339 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-20 06:36:34
End at: 2018-06-20 06:37:04
Local clock offset: 0.03 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-20 09:49:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.05 Mbit/s
95th percentile per-packet one-way delay: 184.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.05 Mbit/s
95th percentile per-packet one-way delay: 184.475 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 277.11 Mbit/s)
- Flow 1 egress (mean 277.05 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 184.47 ms)
Run 6: Statistics of Verus

Start at: 2018-06-20 06:57:28
End at: 2018-06-20 06:57:58
Local clock offset: 0.121 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-06-20 09:49:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.52 Mbit/s
95th percentile per-packet one-way delay: 106.373 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 225.52 Mbit/s
95th percentile per-packet one-way delay: 106.373 ms
Loss rate: 0.96%
Run 6: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 227.83 Mbps)
- Flow 1 egress (mean 225.52 Mbps)

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

- Flow 1 (95th percentile 106.37 ms)
Run 7: Statistics of Verus

Start at: 2018-06-20 07:18:14
End at: 2018-06-20 07:18:44
Local clock offset: 0.07 ms
Remote clock offset: -1.544 ms

# Below is generated by plot.py at 2018-06-20 09:49:44
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 267.75 Mbit/s
  95th percentile per-packet one-way delay: 198.171 ms
  Loss rate: 1.53%
-- Flow 1:
  Average throughput: 267.75 Mbit/s
  95th percentile per-packet one-way delay: 198.171 ms
  Loss rate: 1.53%
Run 7: Report of Verus — Data Link

- Flow 1 ingress (mean 271.87 Mbit/s)
- Flow 1 egress (mean 267.75 Mbit/s)

Flow 1 (95th percentile 198.17 ms)
Run 8: Statistics of Verus

Start at: 2018-06-20 07:38:29
End at: 2018-06-20 07:38:59
Local clock offset: -0.057 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2018-06-20 09:51:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.22 Mbit/s
95th percentile per-packet one-way delay: 146.459 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 257.22 Mbit/s
95th percentile per-packet one-way delay: 146.459 ms
Loss rate: 0.27%
Run 8: Report of Verus — Data Link

![Graph of Throughput (Mbps)]

- **Flow 1 ingress (mean 258.33 Mbit/s)**
- **Flow 1 egress (mean 257.22 Mbit/s)**

![Graph of Packet Delay (ms)]

- **Flow 1 (95th percentile 146.46 ms)**
Run 9: Statistics of Verus

Start at: 2018-06-20 07:58:38
End at: 2018-06-20 07:59:08
Local clock offset: -0.045 ms
Remote clock offset: 1.418 ms

# Below is generated by plot.py at 2018-06-20 09:51:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.02 Mbit/s
95th percentile per-packet one-way delay: 107.370 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 254.02 Mbit/s
95th percentile per-packet one-way delay: 107.370 ms
Loss rate: 0.10%
Run 9: Report of Verus — Data Link

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

- Flow 1 ingress (mean 254.24 Mbit/s)
- Flow 1 egress (mean 254.02 Mbit/s)

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

- Flow 1 (95th percentile 107.37 ms)
Run 10: Statistics of Verus

Start at: 2018-06-20 08:18:57
End at: 2018-06-20 08:19:27
Local clock offset: -0.025 ms
Remote clock offset: 1.106 ms

# Below is generated by plot.py at 2018-06-20 09:51:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.40 Mbit/s
95th percentile per-packet one-way delay: 105.199 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 279.40 Mbit/s
95th percentile per-packet one-way delay: 105.199 ms
Loss rate: 0.83%
Run 10: Report of Verus — Data Link

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

- Flow 1 ingress (mean 281.73 Mbit/s)
- Flow 1 egress (mean 279.40 Mbit/s)

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

- Flow 1 (95th percentile 105.20 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 05:03:45
End at: 2018-06-20 05:04:15
Local clock offset: -0.305 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2018-06-20 09:54:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.90 Mbit/s
95th percentile per-packet one-way delay: 51.327 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 378.90 Mbit/s
95th percentile per-packet one-way delay: 51.327 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

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

**Throughput**: The graph plots throughput over time, with two lines indicating flow ingress (mean 378.90 Mbit/s) and flow egress (mean 378.90 Mbit/s).

**Packet Delay**: Another graph shows packet delay (95th percentile 51.33 ms) over time.
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 05:24:01
End at: 2018-06-20 05:24:31
Local clock offset: -0.081 ms
Remote clock offset: 1.181 ms

# Below is generated by plot.py at 2018-06-20 09:54:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.78 Mbit/s
95th percentile per-packet one-way delay: 57.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 352.78 Mbit/s
95th percentile per-packet one-way delay: 57.572 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

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

Graph 2: Per packet end-to-end delay (ms) vs. Time (s)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 05:44:11
End at: 2018-06-20 05:44:41
Local clock offset: 0.034 ms
Remote clock offset: 1.213 ms

# Below is generated by plot.py at 2018-06-20 09:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 379.68 Mbit/s
95th percentile per-packet one-way delay: 55.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 379.68 Mbit/s
95th percentile per-packet one-way delay: 55.085 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 06:04:30
End at: 2018-06-20 06:05:00
Local clock offset: 0.252 ms
Remote clock offset: -1.212 ms

# Below is generated by plot.py at 2018-06-20 09:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.29 Mbit/s
95th percentile per-packet one-way delay: 51.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 329.29 Mbit/s
95th percentile per-packet one-way delay: 51.644 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph of throughput and packet delay over time]

- **Flow 1 ingress (mean 329.26 Mbit/s)**
- **Flow 1 egress (mean 329.29 Mbit/s)**

![Graph of packet delay over time]

- **Flow 1 (95th percentile 51.64 ms)**
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 06:25:10
End at: 2018-06-20 06:25:40
Local clock offset: -0.126 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-06-20 09:56:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.13 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 369.13 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 0.01%
Run 5: Report of PCC-Vivace — Data Link

![Graph of throughput over time](image1)

- Flow 1 ingress (mean 369.13 Mbit/s)
- Flow 1 egress (mean 369.13 Mbit/s)

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

- Flow 1 (95th percentile 53.82 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 06:45:41
End at: 2018-06-20 06:46:11
Local clock offset: 0.005 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2018-06-20 09:57:31
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 396.04 Mbit/s
  95th percentile per-packet one-way delay: 54.172 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 396.04 Mbit/s
  95th percentile per-packet one-way delay: 54.172 ms
  Loss rate: 0.04%
Run 6: Report of PCC-Vivace — Data Link

![Graph of Throughput (Mbps)]

- **Flow 1 ingress (mean 396.21 Mbit/s)**
- **Flow 1 egress (mean 396.04 Mbit/s)**

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

- **Flow 1 (95th percentile 54.17 ms)**
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 07:06:27
End at: 2018-06-20 07:06:57
Local clock offset: -0.297 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-20 09:57:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 376.00 Mbit/s
95th percentile per-packet one-way delay: 53.486 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 376.00 Mbit/s
95th percentile per-packet one-way delay: 53.486 ms
Loss rate: 0.01%
Run 7: Report of PCC-Vivace — Data Link
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 07:27:03
End at: 2018-06-20 07:27:33
Local clock offset: -0.026 ms
Remote clock offset: -1.21 ms

# Below is generated by plot.py at 2018-06-20 09:57:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.01 Mbit/s
95th percentile per-packet one-way delay: 52.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 380.01 Mbit/s
95th percentile per-packet one-way delay: 52.207 ms
Loss rate: 0.00%
Run 8: Report of PCC-Vivace — Data Link

![Graph showing throughput over time with two lines indicating flow ingress and egress](Image)

![Graph showing packet error rate over time with one line indicating flow 1's 95th percentile delay](Image)

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Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 07:47:07
End at: 2018-06-20 07:47:37
Local clock offset: 0.034 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 352.26 Mbit/s
  95th percentile per-packet one-way delay: 53.646 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 352.26 Mbit/s
  95th percentile per-packet one-way delay: 53.646 ms
  Loss rate: 0.01%
Run 9: Report of PCC-Vivace — Data Link

![Graph showing throughput (Mbps) over time for Flow 1 ingress (mean 352.26 Mbit/s) and Flow 1 egress (mean 352.26 Mbit/s).]

![Graph showing packet delay (ms) over time for Flow 1 (95th percentile 53.65 ms).]
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 08:07:27
End at: 2018-06-20 08:07:57
Local clock offset: -0.087 ms
Remote clock offset: 1.327 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.69 Mbit/s
95th percentile per-packet one-way delay: 55.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 341.69 Mbit/s
95th percentile per-packet one-way delay: 55.209 ms
Loss rate: 0.00%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-06-20 05:01:16
End at: 2018-06-20 05:01:46
Local clock offset: -0.083 ms
Remote clock offset: -1.253 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 52.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 52.632 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-06-20 05:21:46
End at: 2018-06-20 05:22:16
Local clock offset: 0.01 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.99 Mbit/s
  95th percentile per-packet one-way delay: 53.807 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 1.99 Mbit/s
  95th percentile per-packet one-way delay: 53.807 ms
  Loss rate: 0.01%
Run 2: Report of WebRTC media — Data Link

![Graph showing throughput and packet one-way delay](image)
Run 3: Statistics of WebRTC media

Start at: 2018-06-20 05:41:55
End at: 2018-06-20 05:42:25
Local clock offset: -0.155 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 54.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 54.047 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

![Graph of WebRTC media data link with two plots: one showing throughput in Mbps over time, and the other showing per-packet one-way delay in ms over time.]
Run 4: Statistics of WebRTC media

Start at: 2018-06-20 06:02:07
End at: 2018-06-20 06:02:37
Local clock offset: 0.013 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 2.07 Mbit/s
  95th percentile per-packet one-way delay: 50.735 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.07 Mbit/s
  95th percentile per-packet one-way delay: 50.735 ms
  Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Throughput and Delay Graphs](image-url)
Run 5: Statistics of WebRTC media

Start at: 2018-06-20 06:22:47
End at: 2018-06-20 06:23:17
Local clock offset: -0.164 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.633 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graphs showing throughput and delay over time for two flows.]

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

- **Per packet one-way delay (ms)**
  - **Flow 1** (95th percentile 53.63 ms)
Run 6: Statistics of WebRTC media

Start at: 2018-06-20 06:43:05
End at: 2018-06-20 06:43:35
Local clock offset: 0.084 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.90 Mbit/s)  Flow 1 egress (mean 1.90 Mbit/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (99th percentile 55.58 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-06-20 07:04:00
End at: 2018-06-20 07:04:30
Local clock offset: 0.12 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.483 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

![Graph of throughput vs time for WebRTC media with two flows: Flow 1 ingress and Flow 1 egress.]

![Graph of per-packet one-way delay vs time for Flow 1 with a 95th percentile of 53.48 ms.]

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Run 8: Statistics of WebRTC media

Start at: 2018-06-20 07:24:37
End at: 2018-06-20 07:25:07
Local clock offset: 0.01 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 53.511 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 53.511 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

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

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

- Flow 1 (95th percentile 53.51 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-20 07:44:47
End at: 2018-06-20 07:45:17
Local clock offset: 0.117 ms
Remote clock offset: -1.205 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
  Average throughput: 1.98 Mbit/s
  95th percentile per-packet one-way delay: 52.853 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 1.98 Mbit/s
  95th percentile per-packet one-way delay: 52.853 ms
  Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-06-20 08:05:03
End at: 2018-06-20 08:05:33
Local clock offset: 0.078 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-06-20 09:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 53.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 53.961 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 2.03 Mbit/s)
- Flow 1 egress (mean 2.03 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 53.96 ms)