Pantheon Report

Data path: Stanford Ethernet (remote) → AWS California 1 Ethernet (local).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against time.stanford.edu and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b45a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbde5e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecebf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623b091a556ec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08f92c4eb2f4f974ab
third_party/proto-quic @ 77961f1a8273a86b42f1bc8143ebc978f3c7f42
third_party/scream-reproduce @ f099118d1421aa3131bf1ff1964974e1da3b0b2
  M src/ScreamClient
  M src/ScreamServer
thrd_party/sprout @ 366e35c6178b01e31d4d46ad18c74f9415f19a26
third_party/verus @ d4bb47ea74c6c60a261149af2529562939fa494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from Stanford to AWS California 1, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
</tr>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>529.94</td>
<td>392.03</td>
<td>322.60</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>305.49</td>
<td>226.78</td>
<td>129.49</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>449.48</td>
<td>398.94</td>
<td>318.40</td>
</tr>
<tr>
<td>FillP</td>
<td>10</td>
<td>562.17</td>
<td>388.55</td>
<td>294.98</td>
</tr>
<tr>
<td>FillP-Sheep</td>
<td>10</td>
<td>562.58</td>
<td>398.59</td>
<td>317.25</td>
</tr>
<tr>
<td>Indigo</td>
<td>10</td>
<td>155.40</td>
<td>146.99</td>
<td>120.79</td>
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<td>LEDBAT</td>
<td>10</td>
<td>290.50</td>
<td>228.68</td>
<td>159.86</td>
</tr>
<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>609.33</td>
<td>239.86</td>
<td>109.67</td>
</tr>
<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>216.42</td>
<td>100.14</td>
<td>56.10</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>10</td>
<td>73.00</td>
<td>66.07</td>
<td>54.28</td>
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<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
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<tr>
<td>Sprout</td>
<td>10</td>
<td>21.16</td>
<td>21.06</td>
<td>21.07</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>222.08</td>
<td>195.28</td>
<td>120.96</td>
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<tr>
<td>TCP Vegas</td>
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<td>232.00</td>
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<td>334.86</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>162.75</td>
<td>130.92</td>
<td>93.56</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>237.26</td>
<td>81.87</td>
<td>59.64</td>
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<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.71</td>
<td>1.20</td>
<td>0.51</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-07-25 07:41:05
End at: 2018-07-25 07:41:35
Local clock offset: 3.418 ms
Remote clock offset: 0.986 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 902.40 Mbit/s
95th percentile per-packet one-way delay: 10.263 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 537.10 Mbit/s
95th percentile per-packet one-way delay: 10.630 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 389.85 Mbit/s
95th percentile per-packet one-way delay: 5.427 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 317.59 Mbit/s
95th percentile per-packet one-way delay: 5.544 ms
Loss rate: 0.30%
Run 1: Report of TCP BBR — Data Link

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**Throughput (Mbps):**

- Flow 1 ingress (mean 537.07 Mbps)
- Flow 1 egress (mean 537.10 Mbps)
- Flow 2 ingress (mean 389.92 Mbps)
- Flow 2 egress (mean 389.85 Mbps)
- Flow 3 ingress (mean 317.90 Mbps)
- Flow 3 egress (mean 317.59 Mbps)

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

- Flow 1 (95th percentile 10.63 ms)
- Flow 2 (95th percentile 5.43 ms)
- Flow 3 (95th percentile 5.54 ms)
Run 2: Statistics of TCP BBR

Start at: 2018-07-25 08:07:57
End at: 2018-07-25 08:08:27
Local clock offset: 3.267 ms
Remote clock offset: 1.806 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 897.12 Mbit/s
95th percentile per-packet one-way delay: 5.563 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 529.95 Mbit/s
95th percentile per-packet one-way delay: 6.082 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 389.14 Mbit/s
95th percentile per-packet one-way delay: 5.486 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 325.83 Mbit/s
95th percentile per-packet one-way delay: 5.548 ms
Loss rate: 0.28%
Run 2: Report of TCP BBR — Data Link

![Graph showing throughput and packet loss over time for different flows.](image_url)
Run 3: Statistics of TCP BBR

Start at: 2018-07-25 08:34:49
End at: 2018-07-25 08:35:19
Local clock offset: 3.332 ms
Remote clock offset: 2.175 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 893.12 Mbit/s
95th percentile per-packet one-way delay: 10.973 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 523.34 Mbit/s
95th percentile per-packet one-way delay: 11.322 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 393.64 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 325.02 Mbit/s
95th percentile per-packet one-way delay: 4.391 ms
Loss rate: 0.24%
Run 3: Report of TCP BBR — Data Link

![Graph showing throughput and per-packet one-way delay](image-url)
Run 4: Statistics of TCP BBR

Start at: 2018-07-25 09:01:50
End at: 2018-07-25 09:02:20
Local clock offset: 3.596 ms
Remote clock offset: 2.396 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 899.51 Mbit/s
  95th percentile per-packet one-way delay: 9.589 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 531.71 Mbit/s
  95th percentile per-packet one-way delay: 10.155 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 391.17 Mbit/s
  95th percentile per-packet one-way delay: 4.264 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 322.00 Mbit/s
  95th percentile per-packet one-way delay: 4.293 ms
  Loss rate: 0.23%
Run 4: Report of TCP BBR — Data Link

Throughput (Mbit/s)

**Flow 1 ingress (mean 531.61 Mbit/s)**
**Flow 1 egress (mean 531.71 Mbit/s)**
**Flow 2 ingress (mean 391.15 Mbit/s)**
**Flow 2 egress (mean 391.17 Mbit/s)**
**Flow 3 ingress (mean 322.11 Mbit/s)**
**Flow 3 egress (mean 322.00 Mbit/s)**

Per-packet one-way delay (ms)

**Flow 1 (95th percentile 10.15 ms)**
**Flow 2 (95th percentile 4.26 ms)**
**Flow 3 (95th percentile 4.29 ms)**
Run 5: Statistics of TCP BBR

Start at: 2018-07-25 09:28:42
End at: 2018-07-25 09:29:12
Local clock offset: 3.99 ms
Remote clock offset: 2.442 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 900.10 Mbit/s
  95th percentile per-packet one-way delay: 10.201 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 531.69 Mbit/s
  95th percentile per-packet one-way delay: 10.604 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 392.41 Mbit/s
  95th percentile per-packet one-way delay: 4.375 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 322.88 Mbit/s
  95th percentile per-packet one-way delay: 4.404 ms
  Loss rate: 0.23%
Run 5: Report of TCP BBR — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 531.58 Mbit/s)
- Flow 1 egress (mean 531.69 Mbit/s)
- Flow 2 ingress (mean 392.39 Mbit/s)
- Flow 2 egress (mean 392.41 Mbit/s)
- Flow 3 ingress (mean 322.98 Mbit/s)
- Flow 3 egress (mean 322.98 Mbit/s)

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

- Flow 1 (95th percentile 10.60 ms)
- Flow 2 (95th percentile 4.38 ms)
- Flow 3 (95th percentile 4.40 ms)
Run 6: Statistics of TCP BBR

End at: 2018-07-25 09:56:05
Local clock offset: 3.714 ms
Remote clock offset: 2.199 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 898.98 Mbit/s
95th percentile per-packet one-way delay: 10.388 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 526.41 Mbit/s
95th percentile per-packet one-way delay: 10.732 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 397.64 Mbit/s
95th percentile per-packet one-way delay: 4.386 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 323.63 Mbit/s
95th percentile per-packet one-way delay: 4.407 ms
Loss rate: 0.23%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 526.28 Mbit/s)
- Flow 1 egress (mean 526.41 Mbit/s)
- Flow 2 ingress (mean 397.59 Mbit/s)
- Flow 2 egress (mean 397.66 Mbit/s)
- Flow 3 ingress (mean 323.66 Mbit/s)
- Flow 3 egress (mean 323.63 Mbit/s)
Run 7: Statistics of TCP BBR

Local clock offset: 4.146 ms
Remote clock offset: 2.099 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 891.87 Mbit/s
  95th percentile per-packet one-way delay: 10.096 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 524.56 Mbit/s
  95th percentile per-packet one-way delay: 10.701 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 390.68 Mbit/s
  95th percentile per-packet one-way delay: 4.294 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 322.25 Mbit/s
  95th percentile per-packet one-way delay: 4.309 ms
  Loss rate: 0.23%
Run 7: Report of TCP BBR — Data Link
Run 8: Statistics of TCP BBR

Local clock offset: 4.286 ms
Remote clock offset: 1.885 ms

# Below is generated by plot.py at 2018-07-25 12:28:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 898.87 Mbit/s
95th percentile per-packet one-way delay: 10.787 ms
Loss rate: 0.08%
-- Flow 1:
  Average throughput: 531.63 Mbit/s
  95th percentile per-packet one-way delay: 11.222 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 390.84 Mbit/s
  95th percentile per-packet one-way delay: 4.300 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 321.51 Mbit/s
  95th percentile per-packet one-way delay: 4.314 ms
  Loss rate: 0.23%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

End at: 2018-07-25 11:16:41
Local clock offset: 4.176 ms
Remote clock offset: 1.829 ms

# Below is generated by plot.py at 2018-07-25 12:38:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 901.17 Mbit/s
95th percentile per-packet one-way delay: 9.798 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 533.19 Mbit/s
95th percentile per-packet one-way delay: 10.199 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 391.11 Mbit/s
95th percentile per-packet one-way delay: 4.332 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 323.96 Mbit/s
95th percentile per-packet one-way delay: 4.360 ms
Loss rate: 0.23%
Run 9: Report of TCP BBR — Data Link

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

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

- Flow 1 ingress (mean 533.07 Mbit/s)
- Flow 1 egress (mean 533.19 Mbit/s)
- Flow 2 ingress (mean 391.10 Mbit/s)
- Flow 2 egress (mean 391.11 Mbit/s)
- Flow 3 ingress (mean 324.03 Mbit/s)
- Flow 3 egress (mean 323.96 Mbit/s)

- Flow 1 (95th percentile 10.20 ms)
- Flow 2 (95th percentile 4.33 ms)
- Flow 3 (95th percentile 4.36 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-07-25 11:43:03
End at: 2018-07-25 11:43:33
Local clock offset: 3.81 ms
Remote clock offset: 1.572 ms

# Below is generated by plot.py at 2018-07-25 12:38:17
# Datalink statistics
-- Total of 3 flows:
  95th percentile per-packet one-way delay: 9.686 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 529.84 Mbit/s
  95th percentile per-packet one-way delay: 10.094 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 393.80 Mbit/s
  95th percentile per-packet one-way delay: 4.297 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 321.32 Mbit/s
  95th percentile per-packet one-way delay: 4.316 ms
  Loss rate: 0.22%
Run 10: Report of TCP BBR — Data Link

![Graph showing network throughput and per-packet one-way delay](image-url)

Legend:
- Flow 1 ingress (mean 529.73 Mbit/s)
- Flow 1 egress (mean 529.84 Mbit/s)
- Flow 2 ingress (mean 393.77 Mbit/s)
- Flow 2 egress (mean 393.88 Mbit/s)
- Flow 3 ingress (mean 321.41 Mbit/s)
- Flow 3 egress (mean 321.32 Mbit/s)

Per-packet one-way delay (ms):
- Flow 1 (95th percentile 10.09 ms)
- Flow 2 (95th percentile 4.30 ms)
- Flow 3 (95th percentile 4.32 ms)
Run 1: Statistics of Copa

Start at: 2018-07-25 07:39:17
End at: 2018-07-25 07:39:47
Local clock offset: 3.435 ms
Remote clock offset: 0.924 ms

# Below is generated by plot.py at 2018-07-25 12:38:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 506.67 Mbit/s
  95th percentile per-packet one-way delay: 1.326 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 298.00 Mbit/s
  95th percentile per-packet one-way delay: 1.171 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 242.43 Mbit/s
  95th percentile per-packet one-way delay: 1.651 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 142.77 Mbit/s
  95th percentile per-packet one-way delay: 1.161 ms
  Loss rate: 0.23%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-07-25 08:06:09
End at: 2018-07-25 08:06:39
Local clock offset: 3.25 ms
Remote clock offset: 1.681 ms

# Below is generated by plot.py at 2018-07-25 12:38:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 495.25 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 307.98 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 219.34 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 124.51 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.23%
Run 2: Report of Copa — Data Link

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

- Flow 1 ingress (mean 307.98 Mbit/s)
- Flow 1 egress (mean 307.98 Mbit/s)
- Flow 2 ingress (mean 219.21 Mbit/s)
- Flow 2 egress (mean 219.34 Mbit/s)
- Flow 3 ingress (mean 124.56 Mbit/s)
- Flow 3 egress (mean 124.51 Mbit/s)

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

- Flow 1 (95th percentile 1.10 ms)
- Flow 2 (95th percentile 1.13 ms)
- Flow 3 (95th percentile 1.17 ms)
Run 3: Statistics of Copa

Start at: 2018-07-25 08:33:00
End at: 2018-07-25 08:33:30
Local clock offset: 3.255 ms
Remote clock offset: 2.179 ms

# Below is generated by plot.py at 2018-07-25 12:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.17 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 304.14 Mbit/s
95th percentile per-packet one-way delay: 1.381 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 262.28 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 116.29 Mbit/s
95th percentile per-packet one-way delay: 1.332 ms
Loss rate: 0.22%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-07-25 09:00:01
End at: 2018-07-25 09:00:31
Local clock offset: 3.583 ms
Remote clock offset: 2.406 ms

# Below is generated by plot.py at 2018-07-25 12:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 505.99 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 316.12 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 217.30 Mbit/s
95th percentile per-packet one-way delay: 0.980 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 136.65 Mbit/s
95th percentile per-packet one-way delay: 1.114 ms
Loss rate: 0.43%
Run 4: Report of Copa — Data Link

![Graph showing throughput over time for different flows.](image)

![Graph showing per-packet one-way delay over time for different flows.](image)
Run 5: Statistics of Copa

Start at: 2018-07-25 09:26:54
End at: 2018-07-25 09:27:24
Local clock offset: 3.989 ms
Remote clock offset: 2.449 ms

# Below is generated by plot.py at 2018-07-25 12:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 508.34 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 310.06 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 216.29 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 163.44 Mbit/s
95th percentile per-packet one-way delay: 1.261 ms
Loss rate: 0.11%
Run 5: Report of Copa — Data Link
Run 6: Statistics of Copa

Start at: 2018-07-25 09:53:48
End at: 2018-07-25 09:54:18
Local clock offset: 3.711 ms
Remote clock offset: 2.263 ms

# Below is generated by plot.py at 2018-07-25 12:39:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.91 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 283.16 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 242.98 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 108.70 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.29%
Run 6: Report of Copa — Data Link

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

- Flow 1 ingress (mean 283.03 Mbit/s)
- Flow 2 ingress (mean 242.92 Mbit/s)
- Flow 3 ingress (mean 198.80 Mbit/s)
- Flow 1 egress (mean 283.16 Mbit/s)
- Flow 2 egress (mean 242.98 Mbit/s)
- Flow 3 egress (mean 198.70 Mbit/s)

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

- Flow 1 (95th percentile 1.10 ms)
- Flow 2 (95th percentile 1.08 ms)
- Flow 3 (95th percentile 1.16 ms)
Run 7: Statistics of Copa

End at: 2018-07-25 10:21:09
Local clock offset: 4.052 ms
Remote clock offset: 2.043 ms

# Below is generated by plot.py at 2018-07-25 12:48:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 502.10 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 308.93 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 221.12 Mbit/s
95th percentile per-packet one-way delay: 1.461 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 138.91 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.24%
Run 7: Report of Copa — Data Link

![Throughput Graph](image)

![Packet Loss Graph](image)

Legend:
- Flow 1 ingress (mean 308.74 Mbit/s)
- Flow 1 egress (mean 308.93 Mbit/s)
- Flow 2 ingress (mean 221.01 Mbit/s)
- Flow 2 egress (mean 221.12 Mbit/s)
- Flow 3 ingress (mean 138.96 Mbit/s)
- Flow 3 egress (mean 138.91 Mbit/s)
Run 8: Statistics of Copa

Local clock offset: 4.353 ms
Remote clock offset: 1.933 ms

# Below is generated by plot.py at 2018-07-25 12:48:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 489.20 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 311.66 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 210.85 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 111.60 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.04%
Run 8: Report of Copa — Data Link
Run 9: Statistics of Copa

Local clock offset: 4.202 ms
Remote clock offset: 1.8 ms

# Below is generated by plot.py at 2018-07-25 12:48:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 490.34 Mbit/s
  95th percentile per-packet one-way delay: 1.196 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 305.40 Mbit/s
  95th percentile per-packet one-way delay: 1.241 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 213.65 Mbit/s
  95th percentile per-packet one-way delay: 1.107 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 128.93 Mbit/s
  95th percentile per-packet one-way delay: 1.217 ms
  Loss rate: 0.15%
Run 9: Report of Copa — Data Link
Run 10: Statistics of Copa

Start at: 2018-07-25 11:41:15
End at: 2018-07-25 11:41:45
Local clock offset: 3.927 ms
Remote clock offset: 1.603 ms

# Below is generated by plot.py at 2018-07-25 12:48:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 497.81 Mbit/s
  95th percentile per-packet one-way delay: 1.123 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 309.47 Mbit/s
  95th percentile per-packet one-way delay: 1.108 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 221.60 Mbit/s
  95th percentile per-packet one-way delay: 1.155 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 123.07 Mbit/s
  95th percentile per-packet one-way delay: 1.180 ms
  Loss rate: 0.25%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-07-25 07:58:16
End at: 2018-07-25 07:58:46
Local clock offset: 3.35 ms
Remote clock offset: 1.504 ms

# Below is generated by plot.py at 2018-07-25 12:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 790.59 Mbit/s
95th percentile per-packet one-way delay: 4.369 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 420.93 Mbit/s
95th percentile per-packet one-way delay: 4.345 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 395.59 Mbit/s
95th percentile per-packet one-way delay: 4.369 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.67 Mbit/s
95th percentile per-packet one-way delay: 4.402 ms
Loss rate: 0.23%
Run 1: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay for TCP Cubic data link with details for each flow's ingress and egress bandwidths.]

- Flow 1 ingress: mean 420.09 Mbit/s
- Flow 1 egress: mean 420.93 Mbit/s
- Flow 2 ingress: mean 395.52 Mbit/s
- Flow 2 egress: mean 395.59 Mbit/s
- Flow 3 ingress: mean 318.71 Mbit/s
- Flow 3 egress: mean 318.67 Mbit/s

![Graph showing packet delay distribution for each flow with 95th percentile values.]
Run 2: Statistics of TCP Cubic

Start at: 2018-07-25 08:25:07
End at: 2018-07-25 08:25:37
Local clock offset: 3.177 ms
Remote clock offset: 2.073 ms

# Below is generated by plot.py at 2018-07-25 12:48:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 809.37 Mbit/s
  95th percentile per-packet one-way delay: 4.389 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 433.25 Mbit/s
  95th percentile per-packet one-way delay: 9.097 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 406.12 Mbit/s
  95th percentile per-packet one-way delay: 4.365 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 318.23 Mbit/s
  95th percentile per-packet one-way delay: 4.399 ms
  Loss rate: 0.23%
Run 2: Report of TCP Cubic — Data Link

![Graphs showing throughput and packet error rate over time for different flows.]

- Flow 1 ingress (mean 433.15 Mbit/s)
- Flow 1 egress (mean 433.25 Mbit/s)
- Flow 2 ingress (mean 406.06 Mbit/s)
- Flow 2 egress (mean 406.12 Mbit/s)
- Flow 3 ingress (mean 318.26 Mbit/s)
- Flow 3 egress (mean 318.23 Mbit/s)

Legend:
- Flow 1 (95th percentile 9.10 ms)
- Flow 2 (95th percentile 4.37 ms)
- Flow 3 (95th percentile 4.39 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-07-25 08:52:03
End at: 2018-07-25 08:52:33
Local clock offset: 3.676 ms
Remote clock offset: 2.4 ms

# Below is generated by plot.py at 2018-07-25 12:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 831.66 Mbit/s
95th percentile per-packet one-way delay: 4.324 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 458.46 Mbit/s
95th percentile per-packet one-way delay: 4.299 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 401.56 Mbit/s
95th percentile per-packet one-way delay: 4.328 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.77 Mbit/s
95th percentile per-packet one-way delay: 4.352 ms
Loss rate: 0.23%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2018-07-25 09:18:55
End at: 2018-07-25 09:19:25
Local clock offset: 3.873 ms
Remote clock offset: 2.504 ms

# Below is generated by plot.py at 2018-07-25 12:48:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 814.93 Mbit/s
95th percentile per-packet one-way delay: 4.324 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 442.28 Mbit/s
95th percentile per-packet one-way delay: 7.402 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 401.13 Mbit/s
95th percentile per-packet one-way delay: 4.312 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.25 Mbit/s
95th percentile per-packet one-way delay: 4.313 ms
Loss rate: 0.23%
Run 4: Report of TCP Cubic — Data Link

![Graph 1: Throughput over Time for Flows 1, 2, and 3 ( ingress and egress speeds )](image1)

- Flow 1 ingress (mean 442.24 Mbit/s)
- Flow 1 egress (mean 442.28 Mbit/s)
- Flow 2 ingress (mean 401.08 Mbit/s)
- Flow 2 egress (mean 401.13 Mbit/s)
- Flow 3 ingress (mean 318.34 Mbit/s)
- Flow 3 egress (mean 318.25 Mbit/s)

![Graph 2: Per-packet one-way delay over Time for Flows 1, 2, and 3](image2)

- Flow 1 (95th percentile 7.40 ms)
- Flow 2 (95th percentile 4.31 ms)
- Flow 3 (95th percentile 4.31 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-07-25 09:45:51
End at: 2018-07-25 09:46:21
Local clock offset: 3.659 ms
Remote clock offset: 2.373 ms

# Below is generated by plot.py at 2018-07-25 12:56:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 825.51 Mbit/s
95th percentile per-packet one-way delay: 4.241 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 460.21 Mbit/s
95th percentile per-packet one-way delay: 8.227 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 389.76 Mbit/s
95th percentile per-packet one-way delay: 4.226 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.52 Mbit/s
95th percentile per-packet one-way delay: 4.232 ms
Loss rate: 0.23%
Run 5: Report of TCP Cubic — Data Link

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

Graph 1: Throughput over Time
- Blue dashed line: Flow 1 ingress (mean 460.13 Mbit/s)
- Blue solid line: Flow 1 egress (mean 460.21 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 389.74 Mbit/s)
- Green solid line: Flow 2 egress (mean 389.76 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 318.81 Mbit/s)
- Red solid line: Flow 3 egress (mean 318.52 Mbit/s)

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

Graph 2: Per-packet one-way delay over Time
- Blue markers: Flow 1 (95th percentile 8.23 ms)
- Green markers: Flow 2 (95th percentile 4.23 ms)
- Red markers: Flow 3 (95th percentile 4.23 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-07-25 10:12:44
Local clock offset: 4.07 ms
Remote clock offset: 2.157 ms

# Below is generated by plot.py at 2018-07-25 12:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 858.40 Mbit/s
95th percentile per-packet one-way delay: 12.889 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 492.48 Mbit/s
95th percentile per-packet one-way delay: 13.351 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 391.01 Mbit/s
95th percentile per-packet one-way delay: 4.304 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 317.75 Mbit/s
95th percentile per-packet one-way delay: 4.308 ms
Loss rate: 0.24%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

End at: 2018-07-25 10:40:01
Local clock offset: 4.192 ms
Remote clock offset: 1.922 ms

# Below is generated by plot.py at 2018-07-25 12:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 820.67 Mbit/s
95th percentile per-packet one-way delay: 4.336 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 454.35 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 390.68 Mbit/s
95th percentile per-packet one-way delay: 4.316 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 318.60 Mbit/s
95th percentile per-packet one-way delay: 4.330 ms
Loss rate: 0.23%
Run 7: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 454.28 Mb/s)
- Flow 1 egress (mean 454.35 Mb/s)
- Flow 2 ingress (mean 390.63 Mb/s)
- Flow 2 egress (mean 390.68 Mb/s)
- Flow 3 ingress (mean 318.64 Mb/s)
- Flow 3 egress (mean 318.69 Mb/s)

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

- Flow 1 (95th percentile 4.37 ms)
- Flow 2 (95th percentile 4.32 ms)
- Flow 3 (95th percentile 4.33 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-07-25 11:06:25
End at: 2018-07-25 11:06:55
Local clock offset: 4.283 ms
Remote clock offset: 1.819 ms

# Below is generated by plot.py at 2018-07-25 12:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 859.05 Mbit/s
95th percentile per-packet one-way delay: 12.099 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 473.46 Mbit/s
95th percentile per-packet one-way delay: 12.691 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 420.44 Mbit/s
95th percentile per-packet one-way delay: 4.415 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 318.62 Mbit/s
95th percentile per-packet one-way delay: 4.447 ms
Loss rate: 0.22%
Run 8: Report of TCP Cubic — Data Link

[Graph showing throughput and latency over time]

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 473.40 Mbps)  Flow 1 egress (mean 473.46 Mbps)
Flow 2 ingress (mean 420.39 Mbps)  Flow 2 egress (mean 420.44 Mbps)
Flow 3 ingress (mean 318.66 Mbps)  Flow 3 egress (mean 318.62 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 12.69 ms)  Flow 2 (95th percentile 4.42 ms)  Flow 3 (95th percentile 4.45 ms)
Run 9: Statistics of TCP Cubic

End at: 2018-07-25 11:33:51
Local clock offset: 4.22 ms
Remote clock offset: 1.706 ms

# Below is generated by plot.py at 2018-07-25 12:57:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 797.08 Mbit/s
  95th percentile per-packet one-way delay: 4.423 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 430.88 Mbit/s
  95th percentile per-packet one-way delay: 4.400 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 391.48 Mbit/s
  95th percentile per-packet one-way delay: 4.421 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 318.41 Mbit/s
  95th percentile per-packet one-way delay: 4.453 ms
  Loss rate: 0.24%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-07-25 12:00:09
End at: 2018-07-25 12:00:39
Local clock offset: 3.779 ms
Remote clock offset: 1.405 ms

# Below is generated by plot.py at 2018-07-25 12:57:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 801.47 Mbit/s
  95th percentile per-packet one-way delay: 4.401 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 428.47 Mbit/s
  95th percentile per-packet one-way delay: 4.388 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 401.59 Mbit/s
  95th percentile per-packet one-way delay: 4.403 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 318.22 Mbit/s
  95th percentile per-packet one-way delay: 4.416 ms
  Loss rate: 0.24%
Run 10: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 428.42 Mbps)
- Flow 1 egress (mean 428.47 Mbps)
- Flow 2 ingress (mean 401.54 Mbps)
- Flow 2 egress (mean 401.59 Mbps)
- Flow 3 ingress (mean 318.28 Mbps)
- Flow 3 egress (mean 318.22 Mbps)

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

- Flow 1 (95th percentile 4.39 ms)
- Flow 2 (95th percentile 4.40 ms)
- Flow 3 (95th percentile 4.42 ms)
Run 1: Statistics of FillP

Start at: 2018-07-25 07:50:22
End at: 2018-07-25 07:50:52
Local clock offset: 3.457 ms
Remote clock offset: 1.319 ms

# Below is generated by plot.py at 2018-07-25 13:01:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 939.09 Mbit/s
  95th percentile per-packet one-way delay: 4.933 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 588.32 Mbit/s
  95th percentile per-packet one-way delay: 3.535 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 377.84 Mbit/s
  95th percentile per-packet one-way delay: 3.742 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 301.07 Mbit/s
  95th percentile per-packet one-way delay: 11.896 ms
  Loss rate: 0.25%
Run 1: Report of FillP — Data Link

![Graph 1: Throughput (Mb/s)](image1)

- Flow 1 Ingress (mean 588.19 Mb/s)
- Flow 1 Egress (mean 588.32 Mb/s)
- Flow 2 Ingress (mean 377.84 Mb/s)
- Flow 2 Egress (mean 377.84 Mb/s)
- Flow 3 Ingress (mean 301.20 Mb/s)
- Flow 3 Egress (mean 301.07 Mb/s)

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

- Flow 1 (95th percentile 3.54 ms)
- Flow 2 (95th percentile 3.74 ms)
- Flow 3 (95th percentile 11.90 ms)
Run 2: Statistics of FillP

Start at: 2018-07-25 08:17:13
End at: 2018-07-25 08:17:43
Local clock offset: 3.098 ms
Remote clock offset: 1.921 ms

# Below is generated by plot.py at 2018-07-25 13:01:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 917.65 Mbit/s
95th percentile per-packet one-way delay: 3.723 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 559.24 Mbit/s
95th percentile per-packet one-way delay: 3.724 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 391.43 Mbit/s
95th percentile per-packet one-way delay: 3.650 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 296.85 Mbit/s
95th percentile per-packet one-way delay: 3.787 ms
Loss rate: 0.24%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2018-07-25 08:44:07
End at: 2018-07-25 08:44:37
Local clock offset: 3.488 ms
Remote clock offset: 2.289 ms

# Below is generated by plot.py at 2018-07-25 13:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 928.15 Mbit/s
95th percentile per-packet one-way delay: 3.803 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 568.78 Mbit/s
95th percentile per-packet one-way delay: 9.651 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 396.80 Mbit/s
95th percentile per-packet one-way delay: 3.676 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 288.27 Mbit/s
95th percentile per-packet one-way delay: 3.783 ms
Loss rate: 0.25%
Run 3: Report of FillP — Data Link

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

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

Start at: 2018-07-25 09:11:08
End at: 2018-07-25 09:11:38
Local clock offset: 3.896 ms
Remote clock offset: 2.465 ms

# Below is generated by plot.py at 2018-07-25 13:08:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 913.33 Mbit/s
  95th percentile per-packet one-way delay: 3.783 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 553.92 Mbit/s
  95th percentile per-packet one-way delay: 3.614 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 393.09 Mbit/s
  95th percentile per-packet one-way delay: 3.807 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 296.56 Mbit/s
  95th percentile per-packet one-way delay: 3.933 ms
  Loss rate: 0.23%
Run 4: Report of FillP — Data Link

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

- **Flow 1 Ingress** (mean 553.78 Mbps)
- **Flow 1 Egress** (mean 553.92 Mbps)
- **Flow 2 Ingress** (mean 392.99 Mbps)
- **Flow 2 Egress** (mean 393.09 Mbps)
- **Flow 3 Ingress** (mean 296.59 Mbps)
- **Flow 3 Egress** (mean 296.56 Mbps)
Run 5: Statistics of FillP

Start at: 2018-07-25 09:38:00
End at: 2018-07-25 09:38:30
Local clock offset: 3.819 ms
Remote clock offset: 2.365 ms

# Below is generated by plot.py at 2018-07-25 13:09:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 938.49 Mbit/s
95th percentile per-packet one-way delay: 4.995 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 585.99 Mbit/s
95th percentile per-packet one-way delay: 9.258 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 386.52 Mbit/s
95th percentile per-packet one-way delay: 3.806 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 288.89 Mbit/s
95th percentile per-packet one-way delay: 3.922 ms
Loss rate: 0.23%
Run 5: Report of FillP — Data Link

![Graph of throughput vs time showing different flow rates and packet delay statistics.](image)

- **Flow 1 Ingress (mean 585.84 Mbps)**
- **Flow 1 Egress (mean 585.99 Mbps)**
- **Flow 2 Ingress (mean 386.49 Mbps)**
- **Flow 2 Egress (mean 386.52 Mbps)**
- **Flow 3 Ingress (mean 288.93 Mbps)**
- **Flow 3 Egress (mean 288.89 Mbps)**

- **Flow 1 (95th percentile 9.26 ms)**
- **Flow 2 (95th percentile 3.81 ms)**
- **Flow 3 (95th percentile 3.92 ms)**
Run 6: Statistics of FillP

Start at: 2018-07-25 10:04:51
End at: 2018-07-25 10:05:21
Local clock offset: 3.856 ms
Remote clock offset: 2.131 ms

# Below is generated by plot.py at 2018-07-25 13:09:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 934.52 Mbit/s
95th percentile per-packet one-way delay: 3.841 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 574.98 Mbit/s
95th percentile per-packet one-way delay: 3.994 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 395.37 Mbit/s
95th percentile per-packet one-way delay: 3.746 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 292.18 Mbit/s
95th percentile per-packet one-way delay: 3.854 ms
Loss rate: 0.24%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Local clock offset: 4.088 ms
Remote clock offset: 2.03 ms

# Below is generated by plot.py at 2018-07-25 13:09:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 909.45 Mbit/s
95th percentile per-packet one-way delay: 28.960 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 560.13 Mbit/s
95th percentile per-packet one-way delay: 32.353 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 377.54 Mbit/s
95th percentile per-packet one-way delay: 3.652 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 297.20 Mbit/s
95th percentile per-packet one-way delay: 3.776 ms
Loss rate: 0.25%
Run 7: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 563.43 Mbps)
- Flow 1 Egress (mean 560.13 Mbps)
- Flow 2 Ingress (mean 377.49 Mbps)
- Flow 2 Egress (mean 377.54 Mbps)
- Flow 3 Ingress (mean 297.27 Mbps)
- Flow 3 Egress (mean 297.20 Mbps)

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

- Flow 1 (95th percentile 32.35 ms)
- Flow 2 (95th percentile 3.65 ms)
- Flow 3 (95th percentile 3.78 ms)
Run 8: Statistics of FillP

Start at: 2018-07-25 10:58:34
End at: 2018-07-25 10:59:04
Local clock offset: 4.408 ms
Remote clock offset: 1.827 ms

# Below is generated by plot.py at 2018-07-25 13:09:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 854.29 Mbit/s
95th percentile per-packet one-way delay: 37.693 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 493.64 Mbit/s
95th percentile per-packet one-way delay: 41.410 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 394.27 Mbit/s
95th percentile per-packet one-way delay: 3.819 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 297.02 Mbit/s
95th percentile per-packet one-way delay: 3.955 ms
Loss rate: 0.23%
Run 8: Report of FillP — Data Link
Run 9: Statistics of FILLP

Local clock offset: 4.261 ms
Remote clock offset: 1.758 ms

# Below is generated by plot.py at 2018-07-25 13:13:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 908.85 Mbit/s
95th percentile per-packet one-way delay: 22.262 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 551.36 Mbit/s
95th percentile per-packet one-way delay: 27.533 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 393.37 Mbit/s
95th percentile per-packet one-way delay: 3.728 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 290.29 Mbit/s
95th percentile per-packet one-way delay: 3.874 ms
Loss rate: 0.24%
Run 9: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 Ingress (mean 552.44 Mbps) — Flow 1 Egress (mean 551.36 Mbps)
Flow 2 Ingress (mean 393.34 Mbps) — Flow 2 Egress (mean 393.37 Mbps)
Flow 3 Ingress (mean 290.38 Mbps) — Flow 3 Egress (mean 290.29 Mbps)

Delay (ms)

Flow 1 (95th percentile 27.53 ms) — Flow 2 (95th percentile 3.73 ms) — Flow 3 (95th percentile 3.87 ms)
Run 10: Statistics of FillP

End at: 2018-07-25 11:52:52
Local clock offset: 3.73 ms
Remote clock offset: 1.57 ms

# Below is generated by plot.py at 2018-07-25 13:14:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 937.26 Mbit/s
95th percentile per-packet one-way delay: 3.643 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 585.34 Mbit/s
95th percentile per-packet one-way delay: 3.515 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 379.24 Mbit/s
95th percentile per-packet one-way delay: 3.654 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 301.49 Mbit/s
95th percentile per-packet one-way delay: 3.763 ms
Loss rate: 0.23%
Run 10: Report of FillP — Data Link

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

- Flow 1 ingress (mean 585.12 Mbit/s)
- Flow 1 egress (mean 585.34 Mbit/s)
- Flow 2 ingress (mean 579.15 Mbit/s)
- Flow 2 egress (mean 579.24 Mbit/s)
- Flow 3 ingress (mean 301.60 Mbit/s)
- Flow 3 egress (mean 301.49 Mbit/s)
Run 1: Statistics of FillP-Sheep

Start at: 2018-07-25 07:52:06
End at: 2018-07-25 07:52:36
Local clock offset: 3.339 ms
Remote clock offset: 1.325 ms

# Below is generated by plot.py at 2018-07-25 13:21:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 951.34 Mbit/s
95th percentile per-packet one-way delay: 5.552 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 581.44 Mbit/s
95th percentile per-packet one-way delay: 3.449 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 398.06 Mbit/s
95th percentile per-packet one-way delay: 9.700 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 319.28 Mbit/s
95th percentile per-packet one-way delay: 3.813 ms
Loss rate: 0.22%
Run 1: Report of FillP-Sheep — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 Ingress (mean 581.28 Mbps/s)
Flow 1 Egress (mean 581.44 Mbps/s)
Flow 2 Ingress (mean 398.05 Mbps/s)
Flow 2 Egress (mean 398.06 Mbps/s)
Flow 3 Ingress (mean 319.34 Mbps/s)
Flow 3 Egress (mean 319.28 Mbps/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 3.45 ms)
Flow 2 (95th percentile 9.70 ms)
Flow 3 (95th percentile 3.81 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2018-07-25 08:18:56
End at: 2018-07-25 08:19:26
Local clock offset: 3.192 ms
Remote clock offset: 1.966 ms

# Below is generated by plot.py at 2018-07-25 13:21:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 931.00 Mbit/s
95th percentile per-packet one-way delay: 17.385 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 561.65 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 398.18 Mbit/s
95th percentile per-packet one-way delay: 3.764 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 315.79 Mbit/s
95th percentile per-packet one-way delay: 3.889 ms
Loss rate: 0.21%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2018-07-25 08:45:51
End at: 2018-07-25 08:46:21
Local clock offset: 3.61 ms
Remote clock offset: 2.302 ms

# Below is generated by plot.py at 2018-07-25 13:21:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 931.22 Mbit/s
95th percentile per-packet one-way delay: 10.698 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 560.13 Mbit/s
95th percentile per-packet one-way delay: 17.089 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 400.41 Mbit/s
95th percentile per-packet one-way delay: 3.739 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 316.71 Mbit/s
95th percentile per-packet one-way delay: 3.868 ms
Loss rate: 0.23%
Run 3: Report of FillP-Sheep — Data Link
Run 4: Statistics of FillP-Sheep

Start at: 2018-07-25 09:12:50
Local clock offset: 3.823 ms
Remote clock offset: 2.589 ms

# Below is generated by plot.py at 2018-07-25 13:22:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 933.88 Mbit/s
95th percentile per-packet one-way delay: 3.574 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 564.79 Mbit/s
95th percentile per-packet one-way delay: 3.432 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 399.27 Mbit/s
95th percentile per-packet one-way delay: 3.588 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 313.05 Mbit/s
95th percentile per-packet one-way delay: 3.715 ms
Loss rate: 0.04%
Run 4: Report of FillP-Sheep — Data Link

![Graph showing network traffic and delay over time]
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-25 09:39:44
End at: 2018-07-25 09:40:14
Local clock offset: 3.702 ms
Remote clock offset: 2.347 ms

# Below is generated by plot.py at 2018-07-25 13:22:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 937.69 Mbit/s
95th percentile per-packet one-way delay: 3.726 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 568.14 Mbit/s
95th percentile per-packet one-way delay: 3.469 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 396.85 Mbit/s
95th percentile per-packet one-way delay: 3.687 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 319.20 Mbit/s
95th percentile per-packet one-way delay: 8.644 ms
Loss rate: 0.22%
Run 5: Report of FillP-Sheep — Data Link
Run 6: Statistics of FillP-Sheep

Start at: 2018-07-25 10:06:35
End at: 2018-07-25 10:07:05
Local clock offset: 3.939 ms
Remote clock offset: 2.121 ms

# Below is generated by plot.py at 2018-07-25 13:22:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 936.20 Mbit/s
  95th percentile per-packet one-way delay: 3.869 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 565.20 Mbit/s
  95th percentile per-packet one-way delay: 4.704 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 399.15 Mbit/s
  95th percentile per-packet one-way delay: 3.755 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 317.95 Mbit/s
  95th percentile per-packet one-way delay: 3.874 ms
  Loss rate: 0.23%
Run 6: Report of FillP-Sheep — Data Link

Throughput (Mbit/s)

- Flow 1 ingress (mean 565.05 Mbit/s)
- Flow 1 egress (mean 565.20 Mbit/s)
- Flow 2 ingress (mean 399.09 Mbit/s)
- Flow 2 egress (mean 399.15 Mbit/s)
- Flow 3 ingress (mean 317.98 Mbit/s)
- Flow 3 egress (mean 317.95 Mbit/s)

Per-packet one-way delay (ms)

- Flow 1 (95th percentile 4.70 ms)
- Flow 2 (95th percentile 3.75 ms)
- Flow 3 (95th percentile 3.87 ms)
Run 7: Statistics of FillP-Sheep

Start at: 2018-07-25 10:33:26
End at: 2018-07-25 10:33:56
Local clock offset: 4.104 ms
Remote clock offset: 1.97 ms

# Below is generated by plot.py at 2018-07-25 13:28:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 942.41 Mbit/s
95th percentile per-packet one-way delay: 20.382 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 571.93 Mbit/s
95th percentile per-packet one-way delay: 21.809 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 399.74 Mbit/s
95th percentile per-packet one-way delay: 3.652 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 316.24 Mbit/s
95th percentile per-packet one-way delay: 3.779 ms
Loss rate: 0.22%
Run 7: Report of FillP-Sheep — Data Link

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

![Graph 2: Packet One-Way Delay over Time](image2)
Run 8: Statistics of FillP-Sheep

Start at: 2018-07-25 11:00:15
End at: 2018-07-25 11:00:45
Local clock offset: 4.416 ms
Remote clock offset: 1.947 ms

# Below is generated by plot.py at 2018-07-25 13:28:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 902.11 Mbit/s
  95th percentile per-packet one-way delay: 34.753 ms
  Loss rate: 0.77%
-- Flow 1:
  Average throughput: 532.11 Mbit/s
  95th percentile per-packet one-way delay: 37.017 ms
  Loss rate: 1.21%
-- Flow 2:
  Average throughput: 398.19 Mbit/s
  95th percentile per-packet one-way delay: 3.688 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 318.36 Mbit/s
  95th percentile per-packet one-way delay: 3.796 ms
  Loss rate: 0.22%
Run 8: Report of FillP-Sheep — Data Link
Run 9: Statistics of FillP-Sheep

End at: 2018-07-25 11:27:42
Local clock offset: 4.262 ms
Remote clock offset: 1.791 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 939.56 Mbit/s
  95th percentile per-packet one-way delay: 20.084 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 570.70 Mbit/s
  95th percentile per-packet one-way delay: 21.021 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 396.47 Mbit/s
  95th percentile per-packet one-way delay: 3.704 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 317.73 Mbit/s
  95th percentile per-packet one-way delay: 3.822 ms
  Loss rate: 0.22%
Run 9: Report of FillP-Sheep — Data Link
Run 10: Statistics of FillP-Sheep

Start at: 2018-07-25 11:54:05
End at: 2018-07-25 11:54:35
Local clock offset: 3.811 ms
Remote clock offset: 1.5 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 920.63 Mbit/s
95th percentile per-packet one-way delay: 20.003 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 549.74 Mbit/s
95th percentile per-packet one-way delay: 20.932 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 399.57 Mbit/s
95th percentile per-packet one-way delay: 3.888 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 318.19 Mbit/s
95th percentile per-packet one-way delay: 5.059 ms
Loss rate: 0.22%
Run 10: Report of FillIP-Sheep — Data Link

1. Throughput (Mbps):
   - Flow 1 ingress (mean 549.56 Mbps)
   - Flow 1 egress (mean 549.74 Mbps)
   - Flow 2 ingress (mean 299.49 Mbps)
   - Flow 2 egress (mean 399.57 Mbps)
   - Flow 3 ingress (mean 318.20 Mbps)
   - Flow 3 egress (mean 318.19 Mbps)

2. Per-packet one-way delay (ms):
   - Flow 1 (95th percentile 20.93 ms)
   - Flow 2 (95th percentile 3.89 ms)
   - Flow 3 (95th percentile 3.06 ms)
Run 1: Statistics of Indigo

Start at: 2018-07-25 07:53:50
End at: 2018-07-25 07:54:20
Local clock offset: 3.393 ms
Remote clock offset: 1.394 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.61 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 153.69 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 143.64 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 134.23 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.21%
Run 1: Report of Indigo — Data Link

![Graph showing network data metrics over time]

- **Throughput**:\(\text{Throughput (Mbps)}\)
- **Time (s)**: from 0 to 30

**Legend**:
- Flow 1 ingress (mean 153.66 Mbps)
- Flow 1 egress (mean 153.66 Mbps)
- Flow 2 ingress (mean 143.50 Mbps)
- Flow 2 egress (mean 143.64 Mbps)
- Flow 3 ingress (mean 134.23 Mbps)
- Flow 3 egress (mean 134.23 Mbps)

**Packet Delay**

- **Per packet one way delay (ms)**: from 0 to 14

- **Flow 1 (95th percentile 1.06 ms)**
- **Flow 2 (95th percentile 1.06 ms)**
- **Flow 3 (95th percentile 1.11 ms)**
Run 2: Statistics of Indigo

Start at: 2018-07-25 08:20:40
End at: 2018-07-25 08:21:10
Local clock offset: 3.198 ms
Remote clock offset: 1.984 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 291.01 Mbit/s
  95th percentile per-packet one-way delay: 1.149 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 150.05 Mbit/s
  95th percentile per-packet one-way delay: 1.139 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 144.05 Mbit/s
  95th percentile per-packet one-way delay: 1.147 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 137.14 Mbit/s
  95th percentile per-packet one-way delay: 1.213 ms
  Loss rate: 0.21%
Run 2: Report of Indigo — Data Link

[Graph of throughput and packet delay over time for different flows]

- Flow 1 ingress (mean 150.04 Mbit/s)
- Flow 1 egress (mean 150.05 Mbit/s)
- Flow 2 ingress (mean 144.03 Mbit/s)
- Flow 2 egress (mean 144.05 Mbit/s)
- Flow 3 ingress (mean 137.14 Mbit/s)
- Flow 3 egress (mean 137.14 Mbit/s)

[Graph of per-packet one-way delay over time for different flows]

- Flow 1 (95th percentile 1.14 ms)
- Flow 2 (95th percentile 1.15 ms)
- Flow 3 (95th percentile 1.21 ms)
Run 3: Statistics of Indigo

Start at: 2018-07-25 08:47:34
End at: 2018-07-25 08:48:04
Local clock offset: 3.632 ms
Remote clock offset: 2.315 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.25 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 161.25 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 156.11 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.21%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-07-25 09:14:33  
End at: 2018-07-25 09:15:03  
Local clock offset: 3.933 ms  
Remote clock offset: 2.573 ms

# Below is generated by plot.py at 2018-07-25 13:34:48  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 313.03 Mbit/s  
95th percentile per-packet one-way delay: 1.071 ms  
Loss rate: 0.06%  

-- Flow 1:  
Average throughput: 175.17 Mbit/s  
95th percentile per-packet one-way delay: 1.050 ms  
Loss rate: 0.03%  

-- Flow 2:  
Average throughput: 145.28 Mbit/s  
95th percentile per-packet one-way delay: 1.091 ms  
Loss rate: 0.07%  

-- Flow 3:  
Average throughput: 125.23 Mbit/s  
95th percentile per-packet one-way delay: 1.143 ms  
Loss rate: 0.21%
Run 4: Report of Indigo — Data Link

![Diagram showing throughput and per-packet one-way delay over time for different flows.]

- **Throughput (Mbit/s):**
  - Flow 1 (mean 175.10 Mbit/s)
  - Flow 2 (mean 145.25 Mbit/s)
  - Flow 3 (mean 126.25 Mbit/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 1.05 ms)
  - Flow 2 (95th percentile 1.09 ms)
  - Flow 3 (95th percentile 1.14 ms)
Run 5: Statistics of Indigo

Start at: 2018-07-25 09:41:27
End at: 2018-07-25 09:41:57
Local clock offset: 3.668 ms
Remote clock offset: 2.369 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.74 Mbit/s
95th percentile per-packet one-way delay: 0.983 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 158.68 Mbit/s
95th percentile per-packet one-way delay: 0.978 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 152.08 Mbit/s
95th percentile per-packet one-way delay: 0.983 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 82.15 Mbit/s
95th percentile per-packet one-way delay: 1.025 ms
Loss rate: 0.25%
Run 5: Report of Indigo — Data Link

![Graph of Throughput (Mbit/s) vs Time (s)]

- **Flow 1 ingress (mean 158.69 Mbit/s)**
- **Flow 1 egress (mean 158.68 Mbit/s)**
- **Flow 2 ingress (mean 151.95 Mbit/s)**
- **Flow 2 egress (mean 152.08 Mbit/s)**
- **Flow 3 ingress (mean 82.17 Mbit/s)**
- **Flow 3 egress (mean 82.15 Mbit/s)**

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

- Flow 1 (95th percentile 0.98 ms)
- Flow 2 (95th percentile 0.98 ms)
- Flow 3 (95th percentile 1.02 ms)
Run 6: Statistics of Indigo

Start at: 2018-07-25 10:08:18
End at: 2018-07-25 10:08:48
Local clock offset: 3.975 ms
Remote clock offset: 2.129 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.06 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 157.88 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 135.72 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 118.94 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.23%
Run 6: Report of Indigo — Data Link

![Graph showing throughput and delay over time]

- Flow 1 ingress (mean 157.88 Mbit/s)
- Flow 1 egress (mean 157.88 Mbit/s)
- Flow 2 ingress (mean 135.68 Mbit/s)
- Flow 2 egress (mean 135.72 Mbit/s)
- Flow 3 ingress (mean 118.88 Mbit/s)
- Flow 3 egress (mean 118.94 Mbit/s)
Run 7: Statistics of Indigo

Start at: 2018-07-25 10:35:09
End at: 2018-07-25 10:35:39
Local clock offset: 4.228 ms
Remote clock offset: 1.987 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.23 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 150.77 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 146.03 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 141.04 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.15%
Run 7: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 150.75 Mb/s)
- Flow 1 egress (mean 150.77 Mb/s)
- Flow 2 ingress (mean 145.99 Mb/s)
- Flow 2 egress (mean 146.03 Mb/s)
- Flow 3 ingress (mean 146.97 Mb/s)
- Flow 3 egress (mean 141.04 Mb/s)

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

- Flow 1 (95th percentile 1.07 ms)
- Flow 2 (95th percentile 1.10 ms)
- Flow 3 (95th percentile 1.15 ms)
Run 8: Statistics of Indigo

Start at: 2018-07-25 11:01:58
End at: 2018-07-25 11:02:28
Local clock offset: 4.404 ms
Remote clock offset: 1.855 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 281.84 Mbit/s
  95th percentile per-packet one-way delay: 1.132 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 141.13 Mbit/s
  95th percentile per-packet one-way delay: 1.125 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 154.32 Mbit/s
  95th percentile per-packet one-way delay: 1.127 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 116.86 Mbit/s
  95th percentile per-packet one-way delay: 1.173 ms
  Loss rate: 0.22%
Run 8: Report of Indigo — Data Link
Run 9: Statistics of Indigo

End at: 2018-07-25 11:29:25
Local clock offset: 4.193 ms
Remote clock offset: 1.706 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.95 Mbit/s
95th percentile per-packet one-way delay: 1.049 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 148.81 Mbit/s
95th percentile per-packet one-way delay: 1.028 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 142.61 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 144.54 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.19%
Run 9: Report of Indigo — Data Link

![Graph showing network throughput and packet delay over time for different flows.](image)

121
Run 10: Statistics of Indigo

End at: 2018-07-25 11:56:19
Local clock offset: 3.807 ms
Remote clock offset: 1.465 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.17 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 156.60 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 150.07 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 112.29 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.18%
Run 10: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 156.60 Mbps)
- **Flow 1 egress** (mean 156.60 Mbps)
- **Flow 2 ingress** (mean 149.92 Mbps)
- **Flow 2 egress** (mean 150.07 Mbps)
- **Flow 3 ingress** (mean 112.29 Mbps)
- **Flow 3 egress** (mean 112.29 Mbps)

![Graph 2: Packet Error Rate (10000)]

- Packet error rate per second

123
Run 1: Statistics of LEDBAT

Start at: 2018-07-25 07:35:58
End at: 2018-07-25 07:36:28
Local clock offset: 3.555 ms
Remote clock offset: 0.825 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 511.95 Mbit/s
95th percentile per-packet one-way delay: 1.948 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 285.07 Mbit/s
95th percentile per-packet one-way delay: 1.882 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 249.42 Mbit/s
95th percentile per-packet one-way delay: 2.122 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 183.54 Mbit/s
95th percentile per-packet one-way delay: 1.742 ms
Loss rate: 0.16%
Run 1: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 284.94 Mbit/s)
- Flow 1 egress (mean 285.07 Mbit/s)
- Flow 2 ingress (mean 249.45 Mbit/s)
- Flow 2 egress (mean 249.42 Mbit/s)
- Flow 3 ingress (mean 183.49 Mbit/s)
- Flow 3 egress (mean 183.54 Mbit/s)

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

- Flow 1 (95th percentile 1.88 ms)
- Flow 2 (95th percentile 2.12 ms)
- Flow 3 (95th percentile 1.74 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-07-25 08:02:54
End at: 2018-07-25 08:03:24
Local clock offset: 3.215 ms
Remote clock offset: 1.642 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 500.55 Mbit/s
  95th percentile per-packet one-way delay: 1.754 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 296.28 Mbit/s
  95th percentile per-packet one-way delay: 1.639 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 236.32 Mbit/s
  95th percentile per-packet one-way delay: 1.924 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 141.93 Mbit/s
  95th percentile per-packet one-way delay: 1.792 ms
  Loss rate: 0.24%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-07-25 08:29:44
End at: 2018-07-25 08:30:14
Local clock offset: 3.194 ms
Remote clock offset: 2.151 ms

# Below is generated by plot.py at 2018-07-25 13:34:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 497.26 Mbit/s
95th percentile per-packet one-way delay: 1.835 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 300.11 Mbit/s
95th percentile per-packet one-way delay: 1.707 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 223.24 Mbit/s
95th percentile per-packet one-way delay: 2.091 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 145.92 Mbit/s
95th percentile per-packet one-way delay: 1.773 ms
Loss rate: 0.19%
Run 3: Report of LEDBAT — Data Link

![Graph showing throughput and packet delay over time for different flows.](image)
Run 4: Statistics of LEDBAT

Start at: 2018-07-25 08:56:44
End at: 2018-07-25 08:57:14
Local clock offset: 3.675 ms
Remote clock offset: 2.4 ms

# Below is generated by plot.py at 2018-07-25 13:35:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 498.06 Mbit/s
95th percentile per-packet one-way delay: 1.895 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 266.29 Mbit/s
95th percentile per-packet one-way delay: 1.762 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 260.52 Mbit/s
95th percentile per-packet one-way delay: 2.097 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 175.10 Mbit/s
95th percentile per-packet one-way delay: 1.730 ms
Loss rate: 0.22%
Run 5: Statistics of LEDBAT

Start at: 2018-07-25 09:23:37  
End at: 2018-07-25 09:24:07  
Local clock offset: 3.892 ms  
Remote clock offset: 2.497 ms

# Below is generated by plot.py at 2018-07-25 13:37:07  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 505.77 Mbit/s  
95th percentile per-packet one-way delay: 1.639 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 308.61 Mbit/s  
95th percentile per-packet one-way delay: 1.557 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 205.14 Mbit/s  
95th percentile per-packet one-way delay: 1.786 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 182.00 Mbit/s  
95th percentile per-packet one-way delay: 1.686 ms  
Loss rate: 0.30%
Run 5: Report of LEDBAT — Data Link

[Graph showing throughput and packet loss over time for different flows]
Run 6: Statistics of LEDBAT

Start at: 2018-07-25 09:50:30
End at: 2018-07-25 09:51:00
Local clock offset: 3.641 ms
Remote clock offset: 2.255 ms

# Below is generated by plot.py at 2018-07-25 13:37:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 488.13 Mbit/s
  95th percentile per-packet one-way delay: 1.673 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 287.77 Mbit/s
  95th percentile per-packet one-way delay: 1.601 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 226.45 Mbit/s
  95th percentile per-packet one-way delay: 1.807 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 149.54 Mbit/s
  95th percentile per-packet one-way delay: 1.596 ms
  Loss rate: 0.16%
Run 6: Report of LEDBAT — Data Link

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

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

Legend:
- Flow 1 ingress (mean 287.66 Mbps)
- Flow 1 egress (mean 287.77 Mbps)
- Flow 2 ingress (mean 226.39 Mbps)
- Flow 2 egress (mean 226.45 Mbps)
- Flow 3 ingress (mean 149.50 Mbps)
- Flow 3 egress (mean 149.54 Mbps)

Flow 1 (95th percentile 1.60 ms)  Flow 2 (95th percentile 1.81 ms)  Flow 3 (95th percentile 1.60 ms)
Run 7: Statistics of LEDBAT

Start at: 2018-07-25 10:17:25
End at: 2018-07-25 10:17:55
Local clock offset: 4.116 ms
Remote clock offset: 2.063 ms

# Below is generated by plot.py at 2018-07-25 13:39:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 485.61 Mbit/s
  95th percentile per-packet one-way delay: 1.902 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 284.71 Mbit/s
  95th percentile per-packet one-way delay: 1.740 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 228.57 Mbit/s
  95th percentile per-packet one-way delay: 2.154 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 146.99 Mbit/s
  95th percentile per-packet one-way delay: 1.838 ms
  Loss rate: 0.20%
Run 7: Report of LEDBAT — Data Link

![Graph showing throughput and packet loss over time for different flows](image-url)
Run 8: Statistics of LEDBAT

End at: 2018-07-25 10:44:43
Local clock offset: 4.293 ms
Remote clock offset: 1.964 ms

# Below is generated by plot.py at 2018-07-25 13:39:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 491.95 Mbit/s
  95th percentile per-packet one-way delay: 1.728 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 290.90 Mbit/s
  95th percentile per-packet one-way delay: 1.643 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 222.93 Mbit/s
  95th percentile per-packet one-way delay: 1.802 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 158.18 Mbit/s
  95th percentile per-packet one-way delay: 1.946 ms
  Loss rate: 0.17%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-07-25 11:11:05
End at: 2018-07-25 11:11:35
Local clock offset: 4.232 ms
Remote clock offset: 1.868 ms

# Below is generated by plot.py at 2018-07-25 13:40:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 499.74 Mbit/s
95th percentile per-packet one-way delay: 1.699 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 303.58 Mbit/s
95th percentile per-packet one-way delay: 1.625 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 204.61 Mbit/s
95th percentile per-packet one-way delay: 1.828 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 180.87 Mbit/s
95th percentile per-packet one-way delay: 1.748 ms
Loss rate: 0.09%
Run 9: Report of LEDBAT — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 10: Statistics of LEDBAT

Local clock offset: 4.026 ms
Remote clock offset: 1.621 ms

# Below is generated by plot.py at 2018-07-25 13:40:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 479.27 Mbit/s
95th percentile per-packet one-way delay: 1.795 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 281.65 Mbit/s
95th percentile per-packet one-way delay: 1.679 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 229.63 Mbit/s
95th percentile per-packet one-way delay: 1.974 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 134.48 Mbit/s
95th percentile per-packet one-way delay: 1.754 ms
Loss rate: 0.08%
Run 10: Report of LEDBAT — Data Link

![Graph showing throughput over time for different flows.](image)

![Graph showing per-packet one-way delay over time for different flows.](image)
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-25 07:37:39
End at: 2018-07-25 07:38:09
Local clock offset: 3.536 ms
Remote clock offset: 0.894 ms

# Below is generated by plot.py at 2018-07-25 13:44:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 844.60 Mbit/s
95th percentile per-packet one-way delay: 3.162 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 541.16 Mbit/s
95th percentile per-packet one-way delay: 3.162 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 396.16 Mbit/s
95th percentile per-packet one-way delay: 3.188 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 122.86 Mbit/s
95th percentile per-packet one-way delay: 2.964 ms
Loss rate: 0.22%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-25 08:04:33
End at: 2018-07-25 08:05:03
Local clock offset: 3.297 ms
Remote clock offset: 1.672 ms

# Below is generated by plot.py at 2018-07-25 13:44:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 765.97 Mbit/s
95th percentile per-packet one-way delay: 2.000 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 705.27 Mbit/s
95th percentile per-packet one-way delay: 2.007 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 80.88 Mbit/s
95th percentile per-packet one-way delay: 1.609 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 21.27 Mbit/s
95th percentile per-packet one-way delay: 1.345 ms
Loss rate: 0.28%
Run 2: Report of PCC-Allegro — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 ingress (mean 705.66 Mbps/s)  Flow 1 egress (mean 705.27 Mbps/s)
Flow 2 ingress (mean 80.90 Mbps/s)  Flow 2 egress (mean 80.88 Mbps/s)
Flow 3 ingress (mean 21.28 Mbps/s)  Flow 3 egress (mean 21.27 Mbps/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 2.01 ms)  Flow 2 (95th percentile 1.61 ms)  Flow 3 (95th percentile 1.34 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-25 08:31:23
End at: 2018-07-25 08:31:53
Local clock offset: 3.187 ms
Remote clock offset: 2.175 ms

# Below is generated by plot.py at 2018-07-25 13:46:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 812.47 Mbit/s
95th percentile per-packet one-way delay: 2.956 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 532.60 Mbit/s
95th percentile per-packet one-way delay: 2.941 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 337.61 Mbit/s
95th percentile per-packet one-way delay: 2.994 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 170.48 Mbit/s
95th percentile per-packet one-way delay: 2.676 ms
Loss rate: 0.20%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 532.39 Mbps)
- Flow 1 egress (mean 532.66 Mbps)
- Flow 2 ingress (mean 337.42 Mbps)
- Flow 2 egress (mean 337.61 Mbps)
- Flow 3 ingress (mean 170.49 Mbps)
- Flow 3 egress (mean 170.48 Mbps)

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

- Flow 1 (99th percentile 2.94 ms)
- Flow 2 (99th percentile 2.99 ms)
- Flow 3 (99th percentile 2.68 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-07-25 08:58:24
End at: 2018-07-25 08:58:54
Local clock offset: 3.583 ms
Remote clock offset: 2.373 ms

# Below is generated by plot.py at 2018-07-25 13:46:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 823.85 Mbit/s
  95th percentile per-packet one-way delay: 2.808 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 530.16 Mbit/s
  95th percentile per-packet one-way delay: 2.815 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 370.57 Mbit/s
  95th percentile per-packet one-way delay: 2.853 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 144.88 Mbit/s
  95th percentile per-packet one-way delay: 1.716 ms
  Loss rate: 0.23%
Run 4: Report of PCC-Allegro — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 Ingress (mean 529.62 Mbit/s)  Flow 1 Egress (mean 530.16 Mbit/s)
Flow 2 Ingress (mean 370.35 Mbit/s)  Flow 2 Egress (mean 370.57 Mbit/s)
Flow 3 Ingress (mean 144.89 Mbit/s)  Flow 3 Egress (mean 144.88 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 2.81 ms)  Flow 2 (95th percentile 2.85 ms)  Flow 3 (95th percentile 1.72 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2018-07-25 09:25:17
End at: 2018-07-25 09:25:47
Local clock offset: 3.987 ms
Remote clock offset: 2.469 ms

# Below is generated by plot.py at 2018-07-25 13:48:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 804.86 Mbit/s
  95th percentile per-packet one-way delay: 2.275 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 653.17 Mbit/s
  95th percentile per-packet one-way delay: 2.284 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 154.66 Mbit/s
  95th percentile per-packet one-way delay: 2.185 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 148.96 Mbit/s
  95th percentile per-packet one-way delay: 2.072 ms
  Loss rate: 0.21%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-07-25 09:52:09
End at: 2018-07-25 09:52:39
Local clock offset: 3.732 ms
Remote clock offset: 2.227 ms

# Below is generated by plot.py at 2018-07-25 13:49:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 875.43 Mbit/s
  95th percentile per-packet one-way delay: 2.978 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 653.23 Mbit/s
  95th percentile per-packet one-way delay: 2.865 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 251.68 Mbit/s
  95th percentile per-packet one-way delay: 3.124 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 167.36 Mbit/s
  95th percentile per-packet one-way delay: 2.789 ms
  Loss rate: 0.22%
Run 6: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

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

Start at: 2018-07-25 10:19:04
End at: 2018-07-25 10:19:34
Local clock offset: 4.136 ms
Remote clock offset: 2.044 ms

# Below is generated by plot.py at 2018-07-25 13:49:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 699.65 Mbit/s
  95th percentile per-packet one-way delay: 2.378 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 529.65 Mbit/s
  95th percentile per-packet one-way delay: 2.382 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 214.44 Mbit/s
  95th percentile per-packet one-way delay: 2.413 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 83.38 Mbit/s
  95th percentile per-packet one-way delay: 1.526 ms
  Loss rate: 0.21%
Run 7: Report of PCC-Allegro — Data Link
Run 8: Statistics of PCC-Allegro

Start at: 2018-07-25 10:45:53
Local clock offset: 4.324 ms
Remote clock offset: 1.962 ms

# Below is generated by plot.py at 2018-07-25 13:49:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 794.60 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 598.66 Mbit/s
95th percentile per-packet one-way delay: 2.465 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 265.50 Mbit/s
95th percentile per-packet one-way delay: 2.025 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 59.04 Mbit/s
95th percentile per-packet one-way delay: 1.569 ms
Loss rate: 0.31%
Run 8: Report of PCC-Allegro — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 Ingress (mean 598.40 Mb/s)
Flow 1 Egress (mean 598.66 Mb/s)
Flow 2 Ingress (mean 265.36 Mb/s)
Flow 2 Egress (mean 265.50 Mb/s)
Flow 3 Ingress (mean 59.10 Mb/s)
Flow 3 Egress (mean 59.04 Mb/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (99th percentile 2.46 ms)
Flow 2 (95th percentile 2.02 ms)
Flow 3 (95th percentile 1.57 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-07-25 11:12:46
Local clock offset: 4.215 ms
Remote clock offset: 1.808 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 830.02 Mbit/s
  95th percentile per-packet one-way delay: 2.189 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 699.78 Mbit/s
  95th percentile per-packet one-way delay: 2.198 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 145.95 Mbit/s
  95th percentile per-packet one-way delay: 2.059 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 101.72 Mbit/s
  95th percentile per-packet one-way delay: 1.771 ms
  Loss rate: 0.17%
Run 9: Report of PCC-Allegro — Data Link

![Graph of Throughput vs Time](image)

- Flow 1 Ingress (mean 699.33 Mbit/s)
- Flow 1 Egress (mean 699.78 Mbit/s)
- Flow 2 Ingress (mean 145.90 Mbit/s)
- Flow 2 Egress (mean 145.95 Mbit/s)
- Flow 3 Ingress (mean 101.70 Mbit/s)
- Flow 3 Egress (mean 101.72 Mbit/s)

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

- Flow 1 (95th percentile 2.20 ms)
- Flow 2 (95th percentile 2.06 ms)
- Flow 3 (95th percentile 1.77 ms)
Run 10: Statistics of PCC-Allegro

End at: 2018-07-25 11:40:07
Local clock offset: 3.969 ms
Remote clock offset: 1.631 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 795.12 Mbit/s
95th percentile per-packet one-way delay: 2.449 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 649.66 Mbit/s
95th percentile per-packet one-way delay: 2.467 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 181.14 Mbit/s
95th percentile per-packet one-way delay: 2.034 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 76.80 Mbit/s
95th percentile per-packet one-way delay: 1.725 ms
Loss rate: 0.23%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-07-25 07:33:05
End at: 2018-07-25 07:33:35
Local clock offset: 3.5 ms
Remote clock offset: 0.882 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 288.30 Mbit/s
  95th percentile per-packet one-way delay: 0.958 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 222.76 Mbit/s
  95th percentile per-packet one-way delay: 0.957 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 74.14 Mbit/s
  95th percentile per-packet one-way delay: 0.966 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 49.36 Mbit/s
  95th percentile per-packet one-way delay: 0.940 ms
  Loss rate: 0.24%
Run 1: Report of PCC-Expr — Data Link

[Graph showing throughput and delay over time for different flows]

Flow 1 ingress (mean 222.64 Mbit/s)
Flow 1 egress (mean 222.76 Mbit/s)
Flow 2 ingress (mean 74.15 Mbit/s)
Flow 2 egress (mean 74.14 Mbit/s)
Flow 3 ingress (mean 49.36 Mbit/s)
Flow 3 egress (mean 49.36 Mbit/s)
Run 2: Statistics of PCC-Expr

Start at: 2018-07-25 08:00:00
End at: 2018-07-25 08:00:30
Local clock offset: 3.312 ms
Remote clock offset: 1.592 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.23 Mbit/s
95th percentile per-packet one-way delay: 1.014 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 183.03 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 145.29 Mbit/s
95th percentile per-packet one-way delay: 1.051 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 44.64 Mbit/s
95th percentile per-packet one-way delay: 1.009 ms
Loss rate: 0.19%
Run 2: Report of PCC-Expr — Data Link

![Graph showing throughput and latency over time for different flows.](image-url)
Run 3: Statistics of PCC-Expr

Start at: 2018-07-25 08:26:51
End at: 2018-07-25 08:27:21
Local clock offset: 3.176 ms
Remote clock offset: 2.045 ms

# Below is generated by plot.py at 2018-07-25 13:53:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.92 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 200.18 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 51.85 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.28%
Run 3: Report of PCC-Expr — Data Link

![Graph 1](image1)

![Graph 2](image2)

169
Run 4: Statistics of PCC-Expr

Start at: 2018-07-25 08:53:48
End at: 2018-07-25 08:54:18
Local clock offset: 3.663 ms
Remote clock offset: 2.393 ms

# Below is generated by plot.py at 2018-07-25 13:55:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 314.79 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 233.77 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 100.54 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 43.05 Mbit/s
95th percentile per-packet one-way delay: 1.026 ms
Loss rate: 0.13%
Run 4: Report of PCC-Expr — Data Link

[Graph showing throughput and packet loss over time for different flows, with legend indicating mean throughputs for ingress and egress]

171
Run 5: Statistics of PCC-Expr

Start at: 2018-07-25 09:20:39
End at: 2018-07-25 09:21:09
Local clock offset: 3.973 ms
Remote clock offset: 2.519 ms

# Below is generated by plot.py at 2018-07-25 13:56:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.43 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 235.73 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 141.65 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 68.60 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.23%
Run 5: Report of PCC-Expr — Data Link

![Graph showing throughput and latency over time for different flows.]

- Flow 1 ingress (mean 235.60 Mbit/s)
- Flow 1 egress (mean 235.73 Mbit/s)
- Flow 2 ingress (mean 141.67 Mbit/s)
- Flow 2 egress (mean 141.05 Mbit/s)
- Flow 3 ingress (mean 68.63 Mbit/s)
- Flow 3 egress (mean 68.60 Mbit/s)
Run 6: Statistics of PCC-Expr

Start at: 2018-07-25 09:47:36
End at: 2018-07-25 09:48:06
Local clock offset: 3.722 ms
Remote clock offset: 2.264 ms

# Below is generated by plot.py at 2018-07-25 13:56:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 278.18 Mbit/s
  95th percentile per-packet one-way delay: 1.130 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 198.34 Mbit/s
  95th percentile per-packet one-way delay: 1.132 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 94.80 Mbit/s
  95th percentile per-packet one-way delay: 1.143 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 50.81 Mbit/s
  95th percentile per-packet one-way delay: 1.080 ms
  Loss rate: 0.14%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-07-25 10:14:30
End at: 2018-07-25 10:15:00
Local clock offset: 4.1 ms
Remote clock offset: 2.069 ms

# Below is generated by plot.py at 2018-07-25 13:59:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.67 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 221.80 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 110.91 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 0.22%
Run 7: Report of PCC-Expr — Data Link
Run 8: Statistics of PCC-Expr

Start at: 2018-07-25 10:41:17
End at: 2018-07-25 10:41:47
Local clock offset: 4.195 ms
Remote clock offset: 1.905 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 332.73 Mbit/s
  95th percentile per-packet one-way delay: 1.053 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 235.59 Mbit/s
  95th percentile per-packet one-way delay: 1.037 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 102.12 Mbit/s
  95th percentile per-packet one-way delay: 1.086 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 88.67 Mbit/s
  95th percentile per-packet one-way delay: 1.079 ms
  Loss rate: 0.30%
Run 8: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 235.49 Mbit/s)
- Flow 1 egress (mean 235.59 Mbit/s)
- Flow 2 ingress (mean 102.12 Mbit/s)
- Flow 2 egress (mean 102.12 Mbit/s)
- Flow 3 ingress (mean 88.66 Mbit/s)
- Flow 3 egress (mean 88.67 Mbit/s)
Run 9: Statistics of PCC-Expr

Start at: 2018-07-25 11:08:11
End at: 2018-07-25 11:08:41
Local clock offset: 4.181 ms
Remote clock offset: 1.83 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.56 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 221.18 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 83.94 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 1.010 ms
Loss rate: 0.21%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Start at: 2018-07-25 11:35:05
End at: 2018-07-25 11:35:35
Local clock offset: 4.107 ms
Remote clock offset: 1.604 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.87 Mbit/s
95th percentile per-packet one-way delay: 1.178 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 211.78 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 68.79 Mbit/s
95th percentile per-packet one-way delay: 1.189 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 58.63 Mbit/s
95th percentile per-packet one-way delay: 1.175 ms
Loss rate: 0.52%
Run 10: Report of PCC-Expr — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 211.64 Mbps)
  - Flow 1 egress (mean 211.78 Mbps)
  - Flow 2 ingress (mean 68.79 Mbps)
  - Flow 2 egress (mean 68.79 Mbps)
  - Flow 3 ingress (mean 58.82 Mbps)
  - Flow 3 egress (mean 58.63 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 1.18 ms)
  - Flow 2 (95th percentile 1.19 ms)
  - Flow 3 (95th percentile 1.18 ms)
Run 1: Statistics of QUIC Cubic

End at: 2018-07-25 07:49:29
Local clock offset: 3.445 ms
Remote clock offset: 1.29 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.88 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 72.02 Mbit/s
95th percentile per-packet one-way delay: 1.037 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 65.01 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 54.66 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.19%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-25 08:15:51
End at: 2018-07-25 08:16:21
Local clock offset: 3.204 ms
Remote clock offset: 1.973 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 133.94 Mbit/s
  95th percentile per-packet one-way delay: 1.023 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 72.72 Mbit/s
  95th percentile per-packet one-way delay: 1.025 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 66.33 Mbit/s
  95th percentile per-packet one-way delay: 1.017 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 51.67 Mbit/s
  95th percentile per-packet one-way delay: 1.020 ms
  Loss rate: 0.21%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 72.71 Mbit/s)
- Flow 1 egress (mean 72.72 Mbit/s)
- Flow 2 ingress (mean 66.29 Mbit/s)
- Flow 2 egress (mean 66.33 Mbit/s)
- Flow 3 ingress (mean 51.63 Mbit/s)
- Flow 3 egress (mean 51.67 Mbit/s)

![Graph showing per-packet one-way delay for different flows.](image)

- Flow 1 (95th percentile 1.02 ms)
- Flow 2 (95th percentile 1.02 ms)
- Flow 3 (95th percentile 1.02 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-25 08:42:44
End at: 2018-07-25 08:43:14
Local clock offset: 3.482 ms
Remote clock offset: 2.301 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.05 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 74.94 Mbit/s
95th percentile per-packet one-way delay: 0.988 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 65.76 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 1.005 ms
Loss rate: 0.25%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-07-25 09:09:45
End at: 2018-07-25 09:10:15
Local clock offset: 3.887 ms
Remote clock offset: 2.457 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.13 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 68.73 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 54.07 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.19%
Run 4: Report of QUIC Cubic — Data Link

![Graph of Throughput vs. Time]

- Flow 1 ingress (mean 69.56 Mbit/s)
- Flow 1 egress (mean 69.56 Mbit/s)
- Flow 2 ingress (mean 68.72 Mbit/s)
- Flow 2 egress (mean 68.73 Mbit/s)
- Flow 3 ingress (mean 54.07 Mbit/s)
- Flow 3 egress (mean 54.07 Mbit/s)

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

- Flow 1 (95th percentile 1.11 ms)
- Flow 2 (95th percentile 1.12 ms)
- Flow 3 (95th percentile 1.13 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-07-25 09:36:37
End at: 2018-07-25 09:37:07
Local clock offset: 3.754 ms
Remote clock offset: 2.466 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.13 Mbit/s
95th percentile per-packet one-way delay: 0.937 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 72.24 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 66.44 Mbit/s
95th percentile per-packet one-way delay: 0.931 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 53.58 Mbit/s
95th percentile per-packet one-way delay: 0.954 ms
Loss rate: 0.13%
Run 5: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image2)
Run 6: Statistics of QUIC Cubic

Start at: 2018-07-25 10:03:29
End at: 2018-07-25 10:03:59
Local clock offset: 3.716 ms
Remote clock offset: 2.237 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.09 Mbit/s
95th percentile per-packet one-way delay: 0.885 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 70.44 Mbit/s
95th percentile per-packet one-way delay: 0.881 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 67.52 Mbit/s
95th percentile per-packet one-way delay: 0.890 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 53.70 Mbit/s
95th percentile per-packet one-way delay: 0.887 ms
Loss rate: 0.27%
Run 6: Report of QUIC Cubic — Data Link

[Graphs showing data throughput and per-packet one-way delay over time for various flows.]
Run 7: Statistics of QUIC Cubic

Start at: 2018-07-25 10:30:20
End at: 2018-07-25 10:30:50
Local clock offset: 4.085 ms
Remote clock offset: 2.063 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.48 Mbit/s
95th percentile per-packet one-way delay: 0.943 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 72.30 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 63.83 Mbit/s
95th percentile per-packet one-way delay: 0.943 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 56.76 Mbit/s
95th percentile per-packet one-way delay: 0.952 ms
Loss rate: 0.23%
Run 7: Report of QUIC Cubic — Data Link

![Graph showing network performance metrics](image1)

![Graph showing packet delay](image2)

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197
Run 8: Statistics of QUIC Cubic

End at: 2018-07-25 10:57:41
Local clock offset: 4.317 ms
Remote clock offset: 1.892 ms

# Below is generated by plot.py at 2018-07-25 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.59 Mbit/s
95th percentile per-packet one-way delay: 0.979 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 75.30 Mbit/s
95th percentile per-packet one-way delay: 0.976 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 0.985 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 0.966 ms
Loss rate: 0.23%
Run 8: Report of QUIC Cubic — Data Link

![Throughput vs Time Graph]

- Flow 1 ingress (mean 75.28 Mbit/s)
- Flow 1 egress (mean 75.30 Mbit/s)
- Flow 2 ingress (mean 64.78 Mbit/s)
- Flow 2 egress (mean 64.78 Mbit/s)
- Flow 3 ingress (mean 55.06 Mbit/s)
- Flow 3 egress (mean 55.09 Mbit/s)

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

- Flow 1 (95th percentile 0.98 ms)
- Flow 2 (95th percentile 0.98 ms)
- Flow 3 (95th percentile 0.97 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-07-25 11:24:07
End at: 2018-07-25 11:24:37
Local clock offset: 4.231 ms
Remote clock offset: 1.792 ms

# Below is generated by plot.py at 2018-07-25 14:00:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 137.24 Mbit/s
  95th percentile per-packet one-way delay: 1.055 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 74.34 Mbit/s
  95th percentile per-packet one-way delay: 1.045 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 66.91 Mbit/s
  95th percentile per-packet one-way delay: 1.061 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 55.74 Mbit/s
  95th percentile per-packet one-way delay: 1.064 ms
  Loss rate: 0.24%
Run 10: Statistics of QUIC Cubic

Local clock offset: 3.843 ms
Remote clock offset: 1.571 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.75 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 65.41 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 54.90 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.23%
Run 10: Report of QUIC Cubic — Data Link

![Graph showing network throughput and latency over time for different flows with specified means for ingress and egress data rates.]

- Flow 1 ingress (mean 76.09 Mbit/s)
- Flow 1 egress (mean 76.12 Mbit/s)
- Flow 2 ingress (mean 65.39 Mbit/s)
- Flow 2 egress (mean 65.41 Mbit/s)
- Flow 3 ingress (mean 54.88 Mbit/s)
- Flow 3 egress (mean 54.90 Mbit/s)
Run 1: Statistics of SCReAM

Start at: 2018-07-25 07:56:59
End at: 2018-07-25 07:57:29
Local clock offset: 3.358 ms
Remote clock offset: 1.481 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 1.175 ms
  Loss rate: 0.19%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.171 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.179 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.138 ms
  Loss rate: 0.35%
Run 2: Statistics of SCReAM

Start at: 2018-07-25 08:23:49
End at: 2018-07-25 08:24:19
Local clock offset: 3.096 ms
Remote clock offset: 2.038 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.114 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.35%
Run 2: Report of SCReAM — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows with mean 0.22 Mbit/s.]

- Flow 1 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.22 Mbit/s)
- Flow 2 ingress (mean 0.22 Mbit/s)
- Flow 2 egress (mean 0.22 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)

![Graph showing per-packet one-way delay over time for different flows with 95th percentile delay.]

- Flow 1 (95th percentile 1.11 ms)
- Flow 2 (95th percentile 1.11 ms)
- Flow 3 (95th percentile 1.12 ms)
Run 3: Statistics of SCReAM

Start at: 2018-07-25 08:50:45
End at: 2018-07-25 08:51:15
Local clock offset: 3.579 ms
Remote clock offset: 2.4 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.029 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.027 ms
Loss rate: 0.35%
Run 3: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.22 Mbps)
Flow 1 egress (mean 0.22 Mbps)
Flow 2 ingress (mean 0.22 Mbps)
Flow 2 egress (mean 0.22 Mbps)
Flow 3 ingress (mean 0.22 Mbps)
Flow 3 egress (mean 0.22 Mbps)

Packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 1.03 ms)
Flow 2 (95th percentile 1.02 ms)
Flow 3 (95th percentile 1.03 ms)
Run 4: Statistics of SCReAM

Start at: 2018-07-25 09:17:37
End at: 2018-07-25 09:18:07
Local clock offset: 3.863 ms
Remote clock offset: 2.581 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.35%
Run 4: Report of SCReAM — Data Link

![Graph of throughput and packet delay over time for flows 1, 2, and 3.](image)

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 0.22 Mbps)
  - Flow 1 egress (mean 0.22 Mbps)
  - Flow 2 ingress (mean 0.22 Mbps)
  - Flow 2 egress (mean 0.22 Mbps)
  - Flow 3 ingress (mean 0.22 Mbps)
  - Flow 3 egress (mean 0.22 Mbps)

- **Packet-one-way delay (ms)**
  - Flow 1 (95th percentile 1.04 ms)
  - Flow 2 (95th percentile 1.04 ms)
  - Flow 3 (95th percentile 1.08 ms)
Run 5: Statistics of SCReAM

Start at: 2018-07-25 09:44:33
End at: 2018-07-25 09:45:03
Local clock offset: 3.735 ms
Remote clock offset: 2.378 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

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**Graph 1: Throughput (Mbps)**
- Flow 1 ingress (mean 0.22 Mbps)
- Flow 1 egress (mean 0.22 Mbps)
- Flow 2 ingress (mean 0.22 Mbps)
- Flow 2 egress (mean 0.22 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

**Graph 2: Per-packet one-way delay (ms)**
- Flow 1 (95th percentile 1.11 ms)
- Flow 2 (95th percentile 1.13 ms)
- Flow 3 (95th percentile 1.11 ms)
Run 6: Statistics of SCReAM

Start at: 2018-07-25 10:11:26
End at: 2018-07-25 10:11:56
Local clock offset: 4.039 ms
Remote clock offset: 2.198 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.085 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.044 ms
Loss rate: 0.35%
Run 6: Report of SCReAM — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 7: Statistics of SCReAM

End at: 2018-07-25 10:38:44
Local clock offset: 4.269 ms
Remote clock offset: 1.954 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 1.194 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.197 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.189 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.182 ms
  Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link

![Graph of Throughput (Mbps) over time for different flows.]

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

Flow 1 ingress (mean 0.22 Mbps) vs. Flow 1 egress (mean 0.22 Mbps)
Flow 2 ingress (mean 0.22 Mbps) vs. Flow 2 egress (mean 0.22 Mbps)
Flow 3 ingress (mean 0.22 Mbps) vs. Flow 3 egress (mean 0.22 Mbps)
Run 8: Statistics of SCReAM

Start at: 2018-07-25 11:05:07
End at: 2018-07-25 11:05:37
Local clock offset: 4.32 ms
Remote clock offset: 1.853 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 1.207 ms
  Loss rate: 0.19%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.206 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.202 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.216 ms
  Loss rate: 0.35%
Run 8: Report of SCReAM — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one-way delay (ms)
Run 9: Statistics of SCReAM

Start at: 2018-07-25 11:32:03
End at: 2018-07-25 11:32:33
Local clock offset: 4.256 ms
Remote clock offset: 1.767 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.36%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-07-25 11:58:50
Local clock offset: 3.685 ms
Remote clock offset: 1.445 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 1.105 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.095 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.089 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 1.134 ms
  Loss rate: 0.35%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2018-07-25 07:47:40
End at: 2018-07-25 07:48:10
Local clock offset: 3.377 ms
Remote clock offset: 1.175 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.12 Mbit/s
95th percentile per-packet one-way delay: 1.048 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 21.71 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-07-25 08:14:31
End at: 2018-07-25 08:15:01
Local clock offset: 3.132 ms
Remote clock offset: 1.912 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 0.996 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 0.998 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.85 Mbit/s
95th percentile per-packet one-way delay: 0.986 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 1.001 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 21.23 Mbit/s)
- Flow 1 egress (mean 21.23 Mbit/s)
- Flow 2 ingress (mean 20.87 Mbit/s)
- Flow 2 egress (mean 20.85 Mbit/s)
- Flow 3 ingress (mean 20.72 Mbit/s)
- Flow 3 egress (mean 20.72 Mbit/s)

Packet round-trip time (ms) vs. Time (s)

- Flow 1 (95th percentile 1.00 ms)
- Flow 2 (95th percentile 0.99 ms)
- Flow 3 (95th percentile 1.00 ms)
Run 3: Statistics of Sprout

Start at: 2018-07-25 08:41:24
End at: 2018-07-25 08:41:54
Local clock offset: 3.525 ms
Remote clock offset: 2.316 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 21.13 Mbit/s)
- Flow 1 egress (mean 21.13 Mbit/s)
- Flow 2 ingress (mean 20.99 Mbit/s)
- Flow 2 egress (mean 20.99 Mbit/s)
- Flow 3 ingress (mean 20.74 Mbit/s)
- Flow 3 egress (mean 20.74 Mbit/s)

![Graph of per-packet one-way delay for different flows.]

- Flow 1 (95th percentile 1.06 ms)
- Flow 2 (95th percentile 1.06 ms)
- Flow 3 (95th percentile 1.05 ms)
Run 4: Statistics of Sprout

Start at: 2018-07-25 09:08:25
End at: 2018-07-25 09:08:55
Local clock offset: 3.763 ms
Remote clock offset: 2.518 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 0.962 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 21.36 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 0.957 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.26 Mbit/s
95th percentile per-packet one-way delay: 0.971 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

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

- **Flow 1 ingress** (mean 21.38 Mbps/s)
- **Flow 1 egress** (mean 21.36 Mbps/s)
- **Flow 2 ingress** (mean 21.16 Mbps/s)
- **Flow 2 egress** (mean 21.16 Mbps/s)
- **Flow 3 ingress** (mean 21.26 Mbps/s)
- **Flow 3 egress** (mean 21.26 Mbps/s)

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

- **Flow 1 (95th percentile 0.96 ms)**
- **Flow 2 (95th percentile 0.96 ms)**
- **Flow 3 (95th percentile 0.97 ms)**
Run 5: Statistics of Sprout

Start at: 2018-07-25 09:35:17
End at: 2018-07-25 09:35:47
Local clock offset: 3.8 ms
Remote clock offset: 2.413 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.25 Mbit/s
95th percentile per-packet one-way delay: 1.039 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 1.039 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 20.94 Mbit/s
95th percentile per-packet one-way delay: 1.035 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-07-25 10:02:09
End at: 2018-07-25 10:02:39
Local clock offset: 3.672 ms
Remote clock offset: 2.214 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 42.45 Mbit/s
  95th percentile per-packet one-way delay: 0.952 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 21.34 Mbit/s
  95th percentile per-packet one-way delay: 0.956 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 21.53 Mbit/s
  95th percentile per-packet one-way delay: 0.947 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 20.75 Mbit/s
  95th percentile per-packet one-way delay: 0.944 ms
  Loss rate: 0.00%
Run 6: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 21.34 Mbps/s)
- Flow 1 egress (mean 21.34 Mbps/s)
- Flow 2 ingress (mean 21.53 Mbps/s)
- Flow 2 egress (mean 21.53 Mbps/s)
- Flow 3 ingress (mean 20.75 Mbps/s)
- Flow 3 egress (mean 20.75 Mbps/s)

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

- Flow 1 (95th percentile 0.96 ms)
- Flow 2 (95th percentile 0.95 ms)
- Flow 3 (95th percentile 0.94 ms)
Run 7: Statistics of Sprout

Start at: 2018-07-25 10:29:00
End at: 2018-07-25 10:29:30
Local clock offset: 4.167 ms
Remote clock offset: 2.042 ms

# Below is generated by plot.py at 2018-07-25 14:00:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 42.03 Mbit/s
  95th percentile per-packet one-way delay: 1.076 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 21.06 Mbit/s
  95th percentile per-packet one-way delay: 1.078 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 21.09 Mbit/s
  95th percentile per-packet one-way delay: 1.074 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 21.19 Mbit/s
  95th percentile per-packet one-way delay: 1.074 ms
  Loss rate: 0.48%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

End at: 2018-07-25 10:56:21
Local clock offset: 4.415 ms
Remote clock offset: 1.929 ms

# Below is generated by plot.py at 2018-07-25 14:00:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 1.073 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.78 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 21.39 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.00%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Local clock offset: 4.135 ms
Remote clock offset: 1.838 ms

# Below is generated by plot.py at 2018-07-25 14:01:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 41.82 Mbit/s
  95th percentile per-packet one-way delay: 0.964 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 20.95 Mbit/s
  95th percentile per-packet one-way delay: 0.965 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 20.95 Mbit/s
  95th percentile per-packet one-way delay: 0.964 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 21.18 Mbit/s
  95th percentile per-packet one-way delay: 0.959 ms
  Loss rate: 0.41%
Run 9: Report of Sprout — Data Link

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

Throughput (Mbps)

Flow 1 ingress (mean 20.95 Mbps)  Flow 1 egress (mean 20.95 Mbps)
Flow 2 ingress (mean 20.95 Mbps)  Flow 2 egress (mean 20.95 Mbps)
Flow 3 ingress (mean 21.24 Mbps)  Flow 3 egress (mean 21.18 Mbps)

![Graph showing packet delay distribution over time for different flows.]

Per-packet one-way delay (ms)

Flow 1 (95th percentile 0.96 ms)  Flow 2 (95th percentile 0.96 ms)  Flow 3 (95th percentile 0.96 ms)
Run 10: Statistics of Sprout

End at: 2018-07-25 11:50:08
Local clock offset: 3.836 ms
Remote clock offset: 1.621 ms

# Below is generated by plot.py at 2018-07-25 14:01:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 41.77 Mbit/s
  95th percentile per-packet one-way delay: 1.043 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 20.99 Mbit/s
  95th percentile per-packet one-way delay: 1.046 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 21.05 Mbit/s
  95th percentile per-packet one-way delay: 1.032 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 20.77 Mbit/s
  95th percentile per-packet one-way delay: 1.045 ms
  Loss rate: 0.49%
Run 10: Report of Sprout — Data Link

The first chart shows the throughput (Mbps) over time (s) for different flows: Flow 1 ingress (mean 20.99 Mbps), Flow 1 egress (mean 20.99 Mbps), Flow 2 ingress (mean 21.05 Mbps), Flow 2 egress (mean 21.05 Mbps), Flow 3 ingress (mean 20.70 Mbps), and Flow 3 egress (mean 20.77 Mbps).

The second chart illustrates the per-packet one-way delay (ms) over time (s) for the same flows: Flow 1 (95th percentile 1.05 ms), Flow 2 (95th percentile 1.03 ms), and Flow 3 (95th percentile 1.04 ms).
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-25 07:45:58
Local clock offset: 3.388 ms
Remote clock offset: 1.128 ms

# Below is generated by plot.py at 2018-07-25 14:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.58 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 220.70 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 193.56 Mbit/s
95th percentile per-packet one-way delay: 1.122 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 111.87 Mbit/s
95th percentile per-packet one-way delay: 1.561 ms
Loss rate: 0.09%
Run 1: Report of TaoVA-100x — Data Link

![Throughput Graph]

![Delay Graph]

- Flow 1 ingress (mean 220.59 Mbit/s)
- Flow 1 egress (mean 220.70 Mbit/s)
- Flow 2 ingress (mean 193.51 Mbit/s)
- Flow 2 egress (mean 193.56 Mbit/s)
- Flow 3 ingress (mean 111.75 Mbit/s)
- Flow 3 egress (mean 111.87 Mbit/s)
Run 2: Statistics of TaoVA-100x

Start at: 2018-07-25 08:12:49
End at: 2018-07-25 08:13:19
Local clock offset: 3.216 ms
Remote clock offset: 1.819 ms

# Below is generated by plot.py at 2018-07-25 14:08:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.68 Mbit/s
95th percentile per-packet one-way delay: 1.159 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 221.20 Mbit/s
95th percentile per-packet one-way delay: 1.108 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 192.72 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 118.01 Mbit/s
95th percentile per-packet one-way delay: 1.443 ms
Loss rate: 0.36%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2018-07-25 08:39:42  
End at: 2018-07-25 08:40:12  
Local clock offset: 3.492 ms  
Remote clock offset: 2.262 ms  

# Below is generated by plot.py at 2018-07-25 14:08:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 381.03 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 216.80 Mbit/s  
95th percentile per-packet one-way delay: 1.090 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 181.60 Mbit/s  
95th percentile per-packet one-way delay: 1.143 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 130.71 Mbit/s  
95th percentile per-packet one-way delay: 1.304 ms  
Loss rate: 0.24%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 216.74 Mbps) | Flow 1 egress (mean 216.50 Mbps)
Flow 2 ingress (mean 181.55 Mbps) | Flow 2 egress (mean 181.60 Mbps)
Flow 3 ingress (mean 130.76 Mbps) | Flow 3 egress (mean 130.71 Mbps)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 1.09 ms) | Flow 2 (95th percentile 1.14 ms) | Flow 3 (95th percentile 1.30 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-07-25 09:06:43
End at: 2018-07-25 09:07:13
Local clock offset: 3.743 ms
Remote clock offset: 2.519 ms

# Below is generated by plot.py at 2018-07-25 14:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.04 Mbit/s
95th percentile per-packet one-way delay: 0.972 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 220.68 Mbit/s
95th percentile per-packet one-way delay: 0.929 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 199.55 Mbit/s
95th percentile per-packet one-way delay: 0.960 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 116.13 Mbit/s
95th percentile per-packet one-way delay: 1.327 ms
Loss rate: 0.28%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-07-25 09:33:36
End at: 2018-07-25 09:34:06
Local clock offset: 3.945 ms
Remote clock offset: 2.481 ms

# Below is generated by plot.py at 2018-07-25 14:08:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 389.46 Mbit/s
  95th percentile per-packet one-way delay: 1.170 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 215.81 Mbit/s
  95th percentile per-packet one-way delay: 1.113 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 200.42 Mbit/s
  95th percentile per-packet one-way delay: 1.111 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 121.18 Mbit/s
  95th percentile per-packet one-way delay: 1.565 ms
  Loss rate: 0.22%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-07-25 10:00:26
End at: 2018-07-25 10:00:56
Local clock offset: 3.734 ms
Remote clock offset: 2.174 ms

# Below is generated by plot.py at 2018-07-25 14:09:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.58 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 231.18 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 192.98 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 132.63 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.30%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

End at: 2018-07-25 10:27:49
Local clock offset: 4.063 ms
Remote clock offset: 2.001 ms

# Below is generated by plot.py at 2018-07-25 14:09:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.03 Mbit/s
95th percentile per-packet one-way delay: 1.022 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 227.34 Mbit/s
95th percentile per-packet one-way delay: 1.003 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 190.86 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 122.50 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.08%
Run 7: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet one-way delay for different flows.](image_url)
Run 8: Statistics of TaoVA-100x

Start at: 2018-07-25 10:54:09
End at: 2018-07-25 10:54:39
Local clock offset: 4.265 ms
Remote clock offset: 1.89 ms

# Below is generated by plot.py at 2018-07-25 14:09:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.43 Mbit/s
95th percentile per-packet one-way delay: 0.981 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 221.87 Mbit/s
95th percentile per-packet one-way delay: 0.948 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 198.63 Mbit/s
95th percentile per-packet one-way delay: 0.965 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 112.90 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.16%
Run 8: Report of TaoVA-100x — Data Link

The graphs illustrate the throughput and per-packet one-way delay for different flows over time. The throughput data shows the mean traffic rates for each flow, while the per-packet delay data provides insights into the latency experienced during transmission. The graphs help in understanding the performance metrics for data link operations.
Run 9: Statistics of TaoVA-100x

Start at: 2018-07-25 11:21:05  
Local clock offset: 4.121 ms  
Remote clock offset: 1.808 ms

# Below is generated by plot.py at 2018-07-25 14:16:16
# Datalink statistics

-- Total of 3 flows:
Average throughput: 393.86 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.05%

-- Flow 1:
Average throughput: 221.75 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 0.02%

-- Flow 2:
Average throughput: 199.33 Mbit/s
95th percentile per-packet one-way delay: 1.045 ms
Loss rate: 0.07%

-- Flow 3:
Average throughput: 118.73 Mbit/s
95th percentile per-packet one-way delay: 1.631 ms
Loss rate: 0.20%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Local clock offset: 3.762 ms
Remote clock offset: 1.551 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.15 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 223.49 Mbit/s
95th percentile per-packet one-way delay: 1.021 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 203.18 Mbit/s
95th percentile per-packet one-way delay: 1.062 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 124.96 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.21%
Run 10: Report of TaoVA-100x — Data Link

![Graph of data throughput](image)

![Graph of packet delay](image)

263
Run 1: Statistics of TCP Vegas

Local clock offset: 3.382 ms
Remote clock offset: 1.46 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 620.45 Mbit/s
95th percentile per-packet one-way delay: 1.734 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 321.16 Mbit/s
95th percentile per-packet one-way delay: 1.626 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 268.79 Mbit/s
95th percentile per-packet one-way delay: 1.767 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 362.09 Mbit/s
95th percentile per-packet one-way delay: 1.846 ms
Loss rate: 0.22%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-07-25 08:22:10
End at: 2018-07-25 08:22:40
Local clock offset: 3.082 ms
Remote clock offset: 2.011 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 637.07 Mbit/s
95th percentile per-packet one-way delay: 2.158 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 300.87 Mbit/s
95th percentile per-packet one-way delay: 1.838 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 345.38 Mbit/s
95th percentile per-packet one-way delay: 2.068 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 320.46 Mbit/s
95th percentile per-packet one-way delay: 2.884 ms
Loss rate: 0.21%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-07-25 08:49:05
End at: 2018-07-25 08:49:35
Local clock offset: 3.642 ms
Remote clock offset: 2.35 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 658.81 Mbit/s
95th percentile per-packet one-way delay: 1.722 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 241.63 Mbit/s
95th percentile per-packet one-way delay: 1.663 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 539.70 Mbit/s
95th percentile per-packet one-way delay: 1.755 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 172.80 Mbit/s
95th percentile per-packet one-way delay: 1.734 ms
Loss rate: 0.26%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2018-07-25 09:16:05
End at: 2018-07-25 09:16:35
Local clock offset: 3.954 ms
Remote clock offset: 2.589 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.14 Mbit/s
95th percentile per-packet one-way delay: 1.557 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 81.94 Mbit/s
95th percentile per-packet one-way delay: 1.344 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 325.65 Mbit/s
95th percentile per-packet one-way delay: 1.559 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 371.85 Mbit/s
95th percentile per-packet one-way delay: 1.593 ms
Loss rate: 0.20%
Run 4: Report of TCP Vegas — Data Link

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

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

- **Flow 1 ingress (mean 81.91 Mbps)**
- **Flow 1 egress (mean 81.94 Mbps)**
- **Flow 2 ingress (mean 325.72 Mbps)**
- **Flow 2 egress (mean 325.65 Mbps)**
- **Flow 3 ingress (mean 371.93 Mbps)**
- **Flow 3 egress (mean 371.85 Mbps)**

- Flow 1 (95th percentile 1.34 ms)
- Flow 2 (95th percentile 1.56 ms)
- Flow 3 (95th percentile 1.59 ms)
Run 5: Statistics of TCP Vegas

End at: 2018-07-25 09:43:28
Local clock offset: 3.751 ms
Remote clock offset: 2.388 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 529.12 Mbit/s
95th percentile per-packet one-way delay: 1.486 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 196.33 Mbit/s
95th percentile per-packet one-way delay: 1.280 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 314.50 Mbit/s
95th percentile per-packet one-way delay: 1.493 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 371.52 Mbit/s
95th percentile per-packet one-way delay: 1.569 ms
Loss rate: 0.20%
Run 5: Report of TCP Vegas — Data Link

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Run 6: Statistics of TCP Vegas

Start at: 2018-07-25 10:09:49
End at: 2018-07-25 10:10:19
Local clock offset: 3.917 ms
Remote clock offset: 2.186 ms

# Below is generated by plot.py at 2018-07-25 14:16:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.05 Mbit/s
95th percentile per-packet one-way delay: 1.535 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 181.35 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 328.80 Mbit/s
95th percentile per-packet one-way delay: 1.511 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 507.98 Mbit/s
95th percentile per-packet one-way delay: 1.657 ms
Loss rate: 0.19%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-07-25 10:36:40
End at: 2018-07-25 10:37:10
Local clock offset: 4.14 ms
Remote clock offset: 1.955 ms

# Below is generated by plot.py at 2018-07-25 14:19:18
# Datalink statistics
--- Total of 3 flows:
95th percentile per-packet one-way delay: 1.360 ms
Loss rate: 0.07%
--- Flow 1:
Average throughput: 201.67 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.02%
--- Flow 2:
Average throughput: 310.77 Mbit/s
95th percentile per-packet one-way delay: 1.364 ms
Loss rate: 0.11%
--- Flow 3:
Average throughput: 221.09 Mbit/s
95th percentile per-packet one-way delay: 1.441 ms
Loss rate: 0.07%
Run 7: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time for different flows.](image_url)
Run 8: Statistics of TCP Vegas

Start at: 2018-07-25 11:03:28
End at: 2018-07-25 11:03:58
Local clock offset: 4.276 ms
Remote clock offset: 1.864 ms

# Below is generated by plot.py at 2018-07-25 14:22:22

# Datalink statistics
-- Total of 3 flows:
Average throughput: 638.72 Mbit/s
95th percentile per-packet one-way delay: 2.193 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 307.22 Mbit/s
95th percentile per-packet one-way delay: 1.817 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 333.56 Mbit/s
95th percentile per-packet one-way delay: 2.519 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 328.53 Mbit/s
95th percentile per-packet one-way delay: 3.384 ms
Loss rate: 0.19%
Run 8: Report of TCP Vegas — Data Link

Graph 1: Throughput (Mbps) over Time (s)
- Flow 1 Ingress (mean 307.18 Mbps)
- Flow 1 Egress (mean 307.22 Mbps)
- Flow 2 Ingress (mean 333.57 Mbps)
- Flow 2 Egress (mean 333.56 Mbps)
- Flow 3 Ingress (mean 326.58 Mbps)
- Flow 3 Egress (mean 326.53 Mbps)

Graph 2: Packet Delivery Latency (ms) over Time (s)
- Flow 1 95th percentile 1.82 ms
- Flow 2 95th percentile 2.52 ms
- Flow 3 95th percentile 3.38 ms
Run 9: Statistics of TCP Vegas

Start at: 2018-07-25 11:30:26
End at: 2018-07-25 11:30:56
Local clock offset: 4.266 ms
Remote clock offset: 1.766 ms

# Below is generated by plot.py at 2018-07-25 14:22:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 605.11 Mbit/s
  95th percentile per-packet one-way delay: 1.679 ms
  Loss rate: 0.10%
-- Flow 1:
  Average throughput: 308.68 Mbit/s
  95th percentile per-packet one-way delay: 1.621 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 275.06 Mbit/s
  95th percentile per-packet one-way delay: 1.703 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 340.73 Mbit/s
  95th percentile per-packet one-way delay: 1.762 ms
  Loss rate: 0.21%
Run 9: Report of TCP Vegas — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 308.66 Mbit/s)
Flow 1 egress (mean 308.68 Mbit/s)
Flow 2 ingress (mean 275.06 Mbit/s)
Flow 2 egress (mean 275.06 Mbit/s)
Flow 3 ingress (mean 340.84 Mbit/s)
Flow 3 egress (mean 340.73 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 1.62 ms)
Flow 2 (95th percentile 1.70 ms)
Flow 3 (95th percentile 1.76 ms)
Run 10: Statistics of TCP Vegas

End at: 2018-07-25 11:57:50
Local clock offset: 3.686 ms
Remote clock offset: 1.519 ms

# Below is generated by plot.py at 2018-07-25 14:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.97 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 179.11 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 133.80 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 351.57 Mbit/s
95th percentile per-packet one-way delay: 1.270 ms
Loss rate: 0.23%
Run 10: Report of TCP Vegas — Data Link

![Throughput Chart]

![Delay Chart]
Run 1: Statistics of Verus

End at: 2018-07-25 07:43:25
Local clock offset: 3.498 ms
Remote clock offset: 1.125 ms

# Below is generated by plot.py at 2018-07-25 14:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.75 Mbit/s
95th percentile per-packet one-way delay: 5.914 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 186.24 Mbit/s
95th percentile per-packet one-way delay: 6.825 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 140.37 Mbit/s
95th percentile per-packet one-way delay: 2.258 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 102.55 Mbit/s
95th percentile per-packet one-way delay: 1.613 ms
Loss rate: 0.28%
Run 1: Report of Verus — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 186.24 Mbit/s)
- Flow 1 egress (mean 186.24 Mbit/s)
- Flow 2 ingress (mean 140.39 Mbit/s)
- Flow 2 egress (mean 140.37 Mbit/s)
- Flow 3 ingress (mean 102.64 Mbit/s)
- Flow 3 egress (mean 102.55 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 6.83 ms)
- Flow 2 (95th percentile 2.26 ms)
- Flow 3 (95th percentile 1.61 ms)
Run 2: Statistics of Verus

Start at: 2018-07-25 08:09:47
End at: 2018-07-25 08:10:17
Local clock offset: 3.174 ms
Remote clock offset: 1.85 ms

# Below is generated by plot.py at 2018-07-25 14:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.09 Mbit/s
95th percentile per-packet one-way delay: 3.229 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 169.41 Mbit/s
95th percentile per-packet one-way delay: 3.764 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 132.95 Mbit/s
95th percentile per-packet one-way delay: 2.091 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 2.218 ms
Loss rate: 0.13%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 169.29 Mbit/s)
- Flow 1 egress (mean 169.41 Mbit/s)
- Flow 2 ingress (mean 132.92 Mbit/s)
- Flow 2 egress (mean 132.95 Mbit/s)
- Flow 3 ingress (mean 91.01 Mbit/s)
- Flow 3 egress (mean 91.11 Mbit/s)

- 95th percentile delay:
  - Flow 1: 3.76 ms
  - Flow 2: 2.09 ms
  - Flow 3: 2.22 ms
Run 3: Statistics of Verus

Start at: 2018-07-25 08:36:39
End at: 2018-07-25 08:37:09
Local clock offset: 3.402 ms
Remote clock offset: 2.317 ms

# Below is generated by plot.py at 2018-07-25 14:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.62 Mbit/s
95th percentile per-packet one-way delay: 4.335 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 174.78 Mbit/s
95th percentile per-packet one-way delay: 5.582 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 126.48 Mbit/s
95th percentile per-packet one-way delay: 1.835 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 122.96 Mbit/s
95th percentile per-packet one-way delay: 1.525 ms
Loss rate: 0.27%
Run 4: Statistics of Verus

Start at: 2018-07-25 09:03:40
End at: 2018-07-25 09:04:10
Local clock offset: 3.745 ms
Remote clock offset: 2.496 ms

# Below is generated by plot.py at 2018-07-25 14:22:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.21 Mbit/s
95th percentile per-packet one-way delay: 2.605 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 169.43 Mbit/s
95th percentile per-packet one-way delay: 3.180 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 124.93 Mbit/s
95th percentile per-packet one-way delay: 1.487 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 2.167 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-07-25 09:30:32
End at: 2018-07-25 09:31:02
Local clock offset: 3.99 ms
Remote clock offset: 2.532 ms

# Below is generated by plot.py at 2018-07-25 14:23:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.27 Mbit/s
95th percentile per-packet one-way delay: 4.970 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 186.86 Mbit/s
95th percentile per-packet one-way delay: 5.990 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 136.25 Mbit/s
95th percentile per-packet one-way delay: 1.894 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 102.01 Mbit/s
95th percentile per-packet one-way delay: 2.085 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

![Graph showing throughput and packet delay over time]

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 186.90 Mbps)
- Flow 1 egress (mean 186.86 Mbps)
- Flow 2 ingress (mean 136.26 Mbps)
- Flow 2 egress (mean 136.23 Mbps)
- Flow 3 ingress (mean 102.01 Mbps)
- Flow 3 egress (mean 102.01 Mbps)

Per packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 5.99 ms)
- Flow 2 (95th percentile 1.89 ms)
- Flow 3 (95th percentile 2.08 ms)
Run 6: Statistics of Verus

Start at: 2018-07-25 09:57:25
End at: 2018-07-25 09:57:55
Local clock offset: 3.631 ms
Remote clock offset: 2.291 ms

# Below is generated by plot.py at 2018-07-25 14:23:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.93 Mbit/s
95th percentile per-packet one-way delay: 5.320 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 118.39 Mbit/s
95th percentile per-packet one-way delay: 6.838 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.40 Mbit/s
95th percentile per-packet one-way delay: 1.349 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 2.651 ms
Loss rate: 0.63%
Run 6: Report of Verus — Data Link

![Data Link Graph]

- Flow 1 ingress (mean 118.39 Mbit/s)
- Flow 1 egress (mean 118.39 Mbit/s)
- Flow 2 ingress (mean 124.42 Mbit/s)
- Flow 2 egress (mean 124.40 Mbit/s)
- Flow 3 ingress (mean 60.35 Mbit/s)
- Flow 3 egress (mean 60.11 Mbit/s)
Run 7: Statistics of Verus

End at: 2018-07-25 10:24:47
Local clock offset: 4.153 ms
Remote clock offset: 2.118 ms

# Below is generated by plot.py at 2018-07-25 14:23:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 255.83 Mbit/s
95th percentile per-packet one-way delay: 5.030 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 144.49 Mbit/s
95th percentile per-packet one-way delay: 6.721 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 123.91 Mbit/s
95th percentile per-packet one-way delay: 2.197 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 97.67 Mbit/s
95th percentile per-packet one-way delay: 2.200 ms
Loss rate: 0.34%
Run 7: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 144.49 Mbps)
- Flow 1 egress (mean 144.49 Mbps)
- Flow 2 ingress (mean 123.96 Mbps)
- Flow 2 egress (mean 123.91 Mbps)
- Flow 3 ingress (mean 97.82 Mbps)
- Flow 3 egress (mean 97.67 Mbps)

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

- Flow 1 (95th percentile 6.72 ms)
- Flow 2 (95th percentile 2.20 ms)
- Flow 3 (95th percentile 2.20 ms)
Run 8: Statistics of Verus

Start at: 2018-07-25 10:51:07
End at: 2018-07-25 10:51:37
Local clock offset: 4.376 ms
Remote clock offset: 1.971 ms

# Below is generated by plot.py at 2018-07-25 14:23:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 271.28 Mbit/s
  95th percentile per-packet one-way delay: 2.947 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 140.41 Mbit/s
  95th percentile per-packet one-way delay: 3.672 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 144.10 Mbit/s
  95th percentile per-packet one-way delay: 1.922 ms
  Loss rate: 0.06%
-- Flow 3:
  Average throughput: 105.88 Mbit/s
  95th percentile per-packet one-way delay: 2.027 ms
  Loss rate: 0.20%
Run 8: Report of Verus — Data Link

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

- Flow 1 ingress (mean 140.41 Mbit/s)
- Flow 1 egress (mean 140.41 Mbit/s)
- Flow 2 ingress (mean 144.04 Mbit/s)
- Flow 2 egress (mean 144.10 Mbit/s)
- Flow 3 ingress (mean 105.88 Mbit/s)
- Flow 3 egress (mean 105.88 Mbit/s)
Run 9: Statistics of Verus

Start at: 2018-07-25 11:18:00
End at: 2018-07-25 11:18:30
Local clock offset: 4.203 ms
Remote clock offset: 1.917 ms

# Below is generated by plot.py at 2018-07-25 14:23:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.35 Mbit/s
95th percentile per-packet one-way delay: 4.571 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 177.51 Mbit/s
95th percentile per-packet one-way delay: 5.961 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 130.52 Mbit/s
95th percentile per-packet one-way delay: 2.159 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 81.25 Mbit/s
95th percentile per-packet one-way delay: 2.057 ms
Loss rate: 0.31%
Run 9: Report of Verus — Data Link

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**Throughput (Mbps)**

- Flow 1 ingress (mean 177.39 Mbps)
- Flow 1 egress (mean 177.51 Mbps)
- Flow 2 ingress (mean 130.53 Mbps)
- Flow 2 egress (mean 130.52 Mbps)
- Flow 3 ingress (mean 81.30 Mbps)
- Flow 3 egress (mean 81.25 Mbps)

**Packet end-to-end delay (ms)**

- Flow 1 (95th percentile 5.96 ms)
- Flow 2 (95th percentile 2.16 ms)
- Flow 3 (95th percentile 2.06 ms)
Run 10: Statistics of Verus

End at: 2018-07-25 11:45:23
Local clock offset: 3.795 ms
Remote clock offset: 1.653 ms

# Below is generated by plot.py at 2018-07-25 14:23:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.58 Mbit/s
95th percentile per-packet one-way delay: 2.773 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 160.03 Mbit/s
95th percentile per-packet one-way delay: 3.231 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.31 Mbit/s
95th percentile per-packet one-way delay: 1.901 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 1.995 ms
Loss rate: 0.28%
Run 10: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-07-25 07:44:27
End at: 2018-07-25 07:44:57
Local clock offset: 3.479 ms
Remote clock offset: 1.07 ms

# Below is generated by plot.py at 2018-07-25 14:25:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 303.80 Mbit/s
  95th percentile per-packet one-way delay: 1.120 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 247.78 Mbit/s
  95th percentile per-packet one-way delay: 1.115 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 68.71 Mbit/s
  95th percentile per-packet one-way delay: 1.180 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 31.49 Mbit/s
  95th percentile per-packet one-way delay: 1.111 ms
  Loss rate: 0.38%
Run 1: Report of PCC-Vivace — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 247.68 Mb/s)
Flow 1 egress (mean 247.78 Mb/s)
Flow 2 ingress (mean 68.69 Mb/s)
Flow 2 egress (mean 68.71 Mb/s)
Flow 3 ingress (mean 31.56 Mb/s)
Flow 3 egress (mean 31.49 Mb/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 1.11 ms)
Flow 2 (95th percentile 1.18 ms)
Flow 3 (95th percentile 1.11 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-25 08:11:18
End at: 2018-07-25 08:11:48
Local clock offset: 3.146 ms
Remote clock offset: 1.767 ms

# Below is generated by plot.py at 2018-07-25 14:25:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 298.22 Mbit/s
  95th percentile per-packet one-way delay: 1.053 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 217.94 Mbit/s
  95th percentile per-packet one-way delay: 1.038 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 97.56 Mbit/s
  95th percentile per-packet one-way delay: 1.078 ms
  Loss rate: 0.06%
-- Flow 3:
  Average throughput: 46.94 Mbit/s
  95th percentile per-packet one-way delay: 1.041 ms
  Loss rate: 0.36%
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-25 08:38:10
End at: 2018-07-25 08:38:40
Local clock offset: 3.452 ms
Remote clock offset: 2.224 ms

# Below is generated by plot.py at 2018-07-25 14:25:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 302.55 Mbit/s
  95th percentile per-packet one-way delay: 1.081 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 235.37 Mbit/s
  95th percentile per-packet one-way delay: 1.075 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 66.67 Mbit/s
  95th percentile per-packet one-way delay: 1.085 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 69.34 Mbit/s
  95th percentile per-packet one-way delay: 1.120 ms
  Loss rate: 0.24%
Run 3: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 235.28 Mbit/s)
Flow 1 egress (mean 235.37 Mbit/s)
Flow 2 ingress (mean 66.68 Mbit/s)
Flow 2 egress (mean 66.67 Mbit/s)
Flow 3 ingress (mean 69.28 Mbit/s)
Flow 3 egress (mean 69.34 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 1.07 ms)
Flow 2 (95th percentile 1.08 ms)
Flow 3 (95th percentile 1.12 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2018-07-25 09:05:10
End at: 2018-07-25 09:05:40
Local clock offset: 3.772 ms
Remote clock offset: 2.454 ms

# Below is generated by plot.py at 2018-07-25 14:26:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.53 Mbit/s
95th percentile per-packet one-way delay: 1.039 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 241.86 Mbit/s
95th percentile per-packet one-way delay: 1.038 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 85.12 Mbit/s
95th percentile per-packet one-way delay: 1.034 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 1.054 ms
Loss rate: 0.25%
Run 4: Report of PCC-Vivace — Data Link

![Graph 1](image)

- Flow 1 ingress (mean 241.65 Mbit/s)
- Flow 1 egress (mean 241.86 Mbit/s)
- Flow 2 ingress (mean 85.08 Mbit/s)
- Flow 2 egress (mean 85.12 Mbit/s)
- Flow 3 ingress (mean 52.06 Mbit/s)
- Flow 3 egress (mean 52.03 Mbit/s)

![Graph 2](image)

- Flow 1 (95th percentile 1.04 ms)
- Flow 2 (95th percentile 1.03 ms)
- Flow 3 (95th percentile 1.05 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2018-07-25 09:32:03
End at: 2018-07-25 09:32:33
Local clock offset: 3.901 ms
Remote clock offset: 2.433 ms

# Below is generated by plot.py at 2018-07-25 14:26:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 311.79 Mbit/s
  95th percentile per-packet one-way delay: 1.043 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 249.93 Mbit/s
  95th percentile per-packet one-way delay: 1.045 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 65.79 Mbit/s
  95th percentile per-packet one-way delay: 1.031 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 54.98 Mbit/s
  95th percentile per-packet one-way delay: 1.034 ms
  Loss rate: 0.29%
Run 5: Report of PCC-Vivace — Data Link
Run 6: Statistics of PCC-Vivace

Start at: 2018-07-25 09:58:53
End at: 2018-07-25 09:59:23
Local clock offset: 3.723 ms
Remote clock offset: 2.18 ms

# Below is generated by plot.py at 2018-07-25 14:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.71 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 254.68 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.47%
Run 7: Statistics of PCC-Vivace

End at: 2018-07-25 10:26:17
Local clock offset: 4.064 ms
Remote clock offset: 2.021 ms

# Below is generated by plot.py at 2018-07-25 14:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.40 Mbit/s
95th percentile per-packet one-way delay: 0.982 ms
Loss rate: 0.05%

-- Flow 1:
Average throughput: 207.94 Mbit/s
95th percentile per-packet one-way delay: 0.971 ms
Loss rate: 0.01%

-- Flow 2:
Average throughput: 79.79 Mbit/s
95th percentile per-packet one-way delay: 0.983 ms
Loss rate: 0.08%

-- Flow 3:
Average throughput: 104.32 Mbit/s
95th percentile per-packet one-way delay: 1.024 ms
Loss rate: 0.22%
Run 7: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 207.86 Mbit/s)
- Flow 2 ingress (mean 79.77 Mbit/s)
- Flow 3 ingress (mean 104.34 Mbit/s)
- Flow 1 egress (mean 207.94 Mbit/s)
- Flow 2 egress (mean 79.79 Mbit/s)
- Flow 3 egress (mean 104.32 Mbit/s)
Run 8: Statistics of PCC-Vivace

End at: 2018-07-25 10:53:07
Local clock offset: 4.401 ms
Remote clock offset: 1.885 ms

# Below is generated by plot.py at 2018-07-25 14:26:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.60 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 221.74 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 106.91 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 54.07 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.66%
Run 8: Report of PCC-Vivace — Data Link
Run 9: Statistics of PCC-Vivace

End at: 2018-07-25 11:20:01
Local clock offset: 4.208 ms
Remote clock offset: 1.793 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 335.50 Mbit/s
  95th percentile per-packet one-way delay: 1.109 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 247.83 Mbit/s
  95th percentile per-packet one-way delay: 1.100 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 86.25 Mbit/s
  95th percentile per-packet one-way delay: 1.130 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 92.26 Mbit/s
  95th percentile per-packet one-way delay: 1.135 ms
  Loss rate: 0.34%
Run 9: Report of PCC-Vivace — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows.]
Run 10: Statistics of PCC-Vivace

Local clock offset: 3.874 ms
Remote clock offset: 1.564 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 321.18 Mbit/s
  95th percentile per-packet one-way delay: 1.094 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 247.56 Mbit/s
  95th percentile per-packet one-way delay: 1.087 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 83.43 Mbit/s
  95th percentile per-packet one-way delay: 1.103 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 54.97 Mbit/s
  95th percentile per-packet one-way delay: 1.116 ms
  Loss rate: 0.29%
Run 10: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 247.44 Mbit/s)
- Flow 1 egress (mean 247.56 Mbit/s)
- Flow 2 ingress (mean 83.45 Mbit/s)
- Flow 2 egress (mean 83.43 Mbit/s)
- Flow 3 ingress (mean 55.01 Mbit/s)
- Flow 3 egress (mean 54.97 Mbit/s)

![Graph of packet error rate over time for different flows.]

- Flow 1 (95th percentile 1.09 ms)
- Flow 2 (95th percentile 1.10 ms)
- Flow 3 (95th percentile 1.12 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-07-25 07:34:40
End at: 2018-07-25 07:35:10
Local clock offset: 3.464 ms
Remote clock offset: 0.881 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.19 Mbit/s
  95th percentile per-packet one-way delay: 1.000 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 1.68 Mbit/s
  95th percentile per-packet one-way delay: 0.998 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 1.08 Mbit/s
  95th percentile per-packet one-way delay: 1.000 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 1.006 ms
  Loss rate: 0.01%
Run 1: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.68 Mbit/s)
Flow 1 egress (mean 1.68 Mbit/s)
Flow 2 ingress (mean 1.08 Mbit/s)
Flow 2 egress (mean 1.08 Mbit/s)
Flow 3 ingress (mean 0.44 Mbit/s)
Flow 3 egress (mean 0.44 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 1.00 ms)
Flow 2 (95th percentile 1.00 ms)
Flow 3 (95th percentile 1.01 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-07-25 08:01:36
End at: 2018-07-25 08:02:06
Local clock offset: 3.212 ms
Remote clock offset: 1.563 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.42 Mbit/s
  95th percentile per-packet one-way delay: 1.030 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 1.68 Mbit/s
  95th percentile per-packet one-way delay: 1.026 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.21 Mbit/s
  95th percentile per-packet one-way delay: 1.032 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 1.038 ms
  Loss rate: 0.63%
Run 2: Report of WebRTC media — Data Link

![Graph of WebRTC media throughout and delay](image-url)

- Flow 1 ingress (mean 1.68 Mbit/s)
- Flow 1 egress (mean 1.68 Mbit/s)
- Flow 2 ingress (mean 1.21 Mbit/s)
- Flow 2 egress (mean 1.21 Mbit/s)
- Flow 3 ingress (mean 0.55 Mbit/s)
- Flow 3 egress (mean 0.55 Mbit/s)

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327
Run 3: Statistics of WebRTC media

Start at: 2018-07-25 08:28:26
End at: 2018-07-25 08:28:56
Local clock offset: 3.102 ms
Remote clock offset: 2.132 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 1.007 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 1.008 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 1.004 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 1.69 Mbps)
- Flow 1 egress (mean 1.69 Mbps)
- Flow 2 ingress (mean 1.23 Mbps)
- Flow 2 egress (mean 1.22 Mbps)
- Flow 3 ingress (mean 0.53 Mbps)
- Flow 3 egress (mean 0.53 Mbps)

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

- Flow 1 (95th percentile 1.01 ms)
- Flow 2 (95th percentile 1.00 ms)
- Flow 3 (95th percentile 1.01 ms)
Run 4: Statistics of WebRTC media

End at: 2018-07-25 08:55:56
Local clock offset: 3.681 ms
Remote clock offset: 2.387 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 1.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and packet loss over time for different flows.](image-url)
Run 5: Statistics of WebRTC media

End at: 2018-07-25 09:22:49
Local clock offset: 3.876 ms
Remote clock offset: 2.485 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 1.019 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 1.021 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 1.013 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 1.025 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graph showing throughput and round-trip time over time for different flows]

- **Flow 1 ingress (mean 1.74 Mbit/s)**
- **Flow 1 egress (mean 1.74 Mbit/s)**
- **Flow 2 ingress (mean 1.21 Mbit/s)**
- **Flow 2 egress (mean 1.21 Mbit/s)**
- **Flow 3 ingress (mean 0.53 Mbit/s)**
- **Flow 3 egress (mean 0.53 Mbit/s)**
Run 6: Statistics of WebRTC media

Start at: 2018-07-25 09:49:12
End at: 2018-07-25 09:49:42
Local clock offset: 3.726 ms
Remote clock offset: 2.286 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.47 Mbit/s
  95th percentile per-packet one-way delay: 1.109 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 1.74 Mbit/s
  95th percentile per-packet one-way delay: 1.113 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.21 Mbit/s
  95th percentile per-packet one-way delay: 1.098 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.53 Mbit/s
  95th percentile per-packet one-way delay: 1.115 ms
  Loss rate: 0.38%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-07-25 10:16:07
End at: 2018-07-25 10:16:37
Local clock offset: 4.035 ms
Remote clock offset: 2.032 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.29 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.84%
Run 7: Report of WebRTC media — Data Link

![Graph showing throughput and packet one-way delay over time for different flows.

- Flow 1 ingress (mean 1.71 Mbit/s)
- Flow 1 egress (mean 1.71 Mbit/s)
- Flow 2 ingress (mean 1.21 Mbit/s)
- Flow 2 egress (mean 1.21 Mbit/s)
- Flow 3 ingress (mean 0.39 Mbit/s)
- Flow 3 egress (mean 0.39 Mbit/s)

![Graph showing per-packet one-way delay for different flows.

- Flow 1 (95th percentile 1.08 ms)
- Flow 2 (95th percentile 1.09 ms)
- Flow 3 (95th percentile 1.08 ms)
Run 8: Statistics of WebRTC media

Local clock offset: 4.223 ms
Remote clock offset: 1.952 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 1.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 1.004 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 1.013 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

End at: 2018-07-25 11:10:18
Local clock offset: 4.155 ms
Remote clock offset: 1.807 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.51 Mbit/s
  95th percentile per-packet one-way delay: 1.067 ms
  Loss rate: 0.10%
-- Flow 1:
  Average throughput: 1.73 Mbit/s
  95th percentile per-packet one-way delay: 1.063 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.25 Mbit/s
  95th percentile per-packet one-way delay: 1.071 ms
  Loss rate: 0.28%
-- Flow 3:
  Average throughput: 0.54 Mbit/s
  95th percentile per-packet one-way delay: 1.068 ms
  Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-07-25 11:36:40
End at: 2018-07-25 11:37:10
Local clock offset: 4.051 ms
Remote clock offset: 1.589 ms

# Below is generated by plot.py at 2018-07-25 14:27:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.56%
Run 10: Report of WebRTC media — Data Link

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**Graph 1:**
- Throughput (Mbps) vs Time (s)
- Legends:
  - Flow 1 ingress (mean 1.71 Mbps)
  - Flow 1 egress (mean 1.71 Mbps)
  - Flow 2 ingress (mean 1.21 Mbps)
  - Flow 2 egress (mean 1.21 Mbps)
  - Flow 3 ingress (mean 0.55 Mbps)
  - Flow 3 egress (mean 0.54 Mbps)

**Graph 2:**
- Packet one-way delay (ms) vs Time (s)
- Legends:
  - Flow 1 (95th percentile 1.20 ms)
  - Flow 2 (95th percentile 1.20 ms)
  - Flow 3 (95th percentile 1.20 ms)