Pantheon Report

Data path: GCE London Ethernet (local) \(\rightarrow\) GCE Iowa Ethernet (remote).
Repeated the test of 16 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.google.com and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 227fdf9a3757f17b88537ccce65743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966494a929986ea5a9c169a7f381fe1bbee5
third_party/indigo @ 2601c92e4a9d58d38cd4df0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906e6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc955fa0d6b23c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8a08f0af92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cffe2
third_party/scream-reproduce @ f099118d1421aa3131bf1ff1964974e1da3bcb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92af9ca9596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2ba86211435ee071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d8e4735770d143a1fa2851
test from GCE London to GCE Iowa, 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>217.13</td>
<td>214.00</td>
<td>202.97</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>145.53</td>
<td>127.75</td>
<td>129.96</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>195.12</td>
<td>157.85</td>
<td>81.20</td>
</tr>
<tr>
<td>FillIP</td>
<td>10</td>
<td>688.22</td>
<td>672.85</td>
<td>555.08</td>
</tr>
<tr>
<td>Indigo</td>
<td>10</td>
<td>216.24</td>
<td>210.56</td>
<td>170.51</td>
</tr>
<tr>
<td>LEDBAT</td>
<td>10</td>
<td>33.82</td>
<td>22.86</td>
<td>11.19</td>
</tr>
<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>483.14</td>
<td>412.79</td>
<td>51.42</td>
</tr>
<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>251.75</td>
<td>181.07</td>
<td>96.95</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>10</td>
<td>40.72</td>
<td>29.68</td>
<td>19.94</td>
</tr>
<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>0.22</td>
<td>0.22</td>
</tr>
<tr>
<td>Sprout</td>
<td>10</td>
<td>6.72</td>
<td>6.96</td>
<td>6.64</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>177.33</td>
<td>184.25</td>
<td>158.12</td>
</tr>
<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>103.93</td>
<td>151.20</td>
<td>95.66</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>207.27</td>
<td>154.89</td>
<td>139.56</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>298.40</td>
<td>250.96</td>
<td>78.82</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>2.09</td>
<td>1.37</td>
<td>0.55</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-07 05:23:12
End at: 2018-06-07 05:23:42
Local clock offset: -0.113 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 09:19:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.80 Mbit/s
95th percentile per-packet one-way delay: 65.632 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.27 Mbit/s
95th percentile per-packet one-way delay: 63.739 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 215.00 Mbit/s
95th percentile per-packet one-way delay: 66.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 205.22 Mbit/s
95th percentile per-packet one-way delay: 67.534 ms
Loss rate: 0.00%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-06-07 05:46:32
End at: 2018-06-07 05:47:02
Local clock offset: 0.082 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-07 09:19:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.29 Mbit/s
95th percentile per-packet one-way delay: 66.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.03 Mbit/s
95th percentile per-packet one-way delay: 64.716 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 218.38 Mbit/s
95th percentile per-packet one-way delay: 66.360 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 194.89 Mbit/s
95th percentile per-packet one-way delay: 69.981 ms
Loss rate: 0.01%
Run 2: Report of TCP BBR — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 217.14 Mbps)
  - Flow 1 egress (mean 217.03 Mbps)
  - Flow 2 ingress (mean 218.53 Mbps)
  - Flow 2 egress (mean 218.38 Mbps)
  - Flow 3 ingress (mean 196.18 Mbps)
  - Flow 3 egress (mean 194.89 Mbps)

- **Per-packet round-trip time (ms):**
  - Flow 1 (95th percentile 64.72 ms)
  - Flow 2 (95th percentile 66.36 ms)
  - Flow 3 (95th percentile 69.98 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-06-07 06:09:34
End at: 2018-06-07 06:10:04
Local clock offset: 0.043 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-07 09:19:10
# Datalink statistics
    -- Total of 3 flows:
    Average throughput: 420.40 Mbit/s
    95th percentile per-packet one-way delay: 60.458 ms
    Loss rate: 0.01%
    -- Flow 1:
    Average throughput: 220.07 Mbit/s
    95th percentile per-packet one-way delay: 60.248 ms
    Loss rate: 0.01%
    -- Flow 2:
    Average throughput: 197.78 Mbit/s
    95th percentile per-packet one-way delay: 60.357 ms
    Loss rate: 0.00%
    -- Flow 3:
    Average throughput: 206.66 Mbit/s
    95th percentile per-packet one-way delay: 61.079 ms
    Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 220.15 Mbit/s)
- Flow 1 egress (mean 220.07 Mbit/s)
- Flow 2 ingress (mean 197.77 Mbit/s)
- Flow 2 egress (mean 197.78 Mbit/s)
- Flow 3 ingress (mean 206.68 Mbit/s)
- Flow 3 egress (mean 206.66 Mbit/s)

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

- Flow 1 (95th percentile 60.25 ms)
- Flow 2 (95th percentile 60.36 ms)
- Flow 3 (95th percentile 61.08 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-06-07 06:32:50
End at: 2018-06-07 06:33:20
Local clock offset: -0.329 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 09:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.88 Mbit/s
95th percentile per-packet one-way delay: 61.775 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 219.82 Mbit/s
95th percentile per-packet one-way delay: 60.732 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 221.11 Mbit/s
95th percentile per-packet one-way delay: 61.743 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 209.71 Mbit/s
95th percentile per-packet one-way delay: 63.372 ms
Loss rate: 0.01%
Run 4: Report of TCP BBR — Data Link

[Graph showing throughput (Mbps) over time with data points for different flows, each with its own line color and legend indicating flow ingress and egress rates with mean values.]

[Graph showing packet one-way delay (ms) over time with data points for different flows, each with its own line color and legend indicating flow 95th percentile delay.]
Run 5: Statistics of TCP BBR

End at: 2018-06-07 06:56:23
Local clock offset: 0.016 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 09:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.71 Mbit/s
95th percentile per-packet one-way delay: 66.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.72 Mbit/s
95th percentile per-packet one-way delay: 63.961 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 217.94 Mbit/s
95th percentile per-packet one-way delay: 65.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 207.11 Mbit/s
95th percentile per-packet one-way delay: 74.629 ms
Loss rate: 0.00%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-06-07 07:18:56
End at: 2018-06-07 07:19:26
Local clock offset: -0.022 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 09:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.17 Mbit/s
95th percentile per-packet one-way delay: 58.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.75 Mbit/s
95th percentile per-packet one-way delay: 58.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 217.05 Mbit/s
95th percentile per-packet one-way delay: 58.631 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 207.17 Mbit/s
95th percentile per-packet one-way delay: 60.000 ms
Loss rate: 0.00%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-06-07 07:42:11
End at: 2018-06-07 07:42:41
Local clock offset: 0.393 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-07 09:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.44 Mbit/s
95th percentile per-packet one-way delay: 65.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.01 Mbit/s
95th percentile per-packet one-way delay: 64.405 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.63 Mbit/s
95th percentile per-packet one-way delay: 65.870 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 198.89 Mbit/s
95th percentile per-packet one-way delay: 67.017 ms
Loss rate: 0.00%
Run 7: Report of TCP BBR — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows.]
Run 8: Statistics of TCP BBR

Start at: 2018-06-07 08:05:28
End at: 2018-06-07 08:05:58
Local clock offset: 0.378 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-07 09:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.43 Mbit/s
95th percentile per-packet one-way delay: 70.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.84 Mbit/s
95th percentile per-packet one-way delay: 67.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 212.07 Mbit/s
95th percentile per-packet one-way delay: 70.644 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.25 Mbit/s
95th percentile per-packet one-way delay: 71.521 ms
Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link

![Graph of Throughput and Packet Delay](image-url)
Run 9: Statistics of TCP BBR

Start at: 2018-06-07 08:28:32
End at: 2018-06-07 08:29:02
Local clock offset: 0.028 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-07 09:25:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.38 Mbit/s
95th percentile per-packet one-way delay: 70.734 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 217.87 Mbit/s
95th percentile per-packet one-way delay: 69.236 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 207.15 Mbit/s
95th percentile per-packet one-way delay: 70.351 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 200.16 Mbit/s
95th percentile per-packet one-way delay: 72.709 ms
Loss rate: 0.01%
Run 9: Report of TCP BBR — Data Link

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

**Graph 1:**
- Flow 1 ingress (mean 217.96 Mbit/s)
- Flow 1 egress (mean 217.87 Mbit/s)
- Flow 2 ingress (mean 207.27 Mbit/s)
- Flow 2 egress (mean 207.15 Mbit/s)
- Flow 3 ingress (mean 200.39 Mbit/s)
- Flow 3 egress (mean 200.16 Mbit/s)

**Graph 2:**
- Flow 1 (95th percentile 69.24 ms)
- Flow 2 (95th percentile 70.35 ms)
- Flow 3 (95th percentile 72.71 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-06-07 08:51:46
End at: 2018-06-07 08:52:16
Local clock offset: -0.333 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-07 09:25:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 417.05 Mbit/s
  95th percentile per-packet one-way delay: 75.925 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 210.88 Mbit/s
  95th percentile per-packet one-way delay: 73.568 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 210.90 Mbit/s
  95th percentile per-packet one-way delay: 75.552 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 197.64 Mbit/s
  95th percentile per-packet one-way delay: 79.390 ms
  Loss rate: 0.00%
Run 1: Statistics of Copa

Start at: 2018-06-07 05:18:33
End at: 2018-06-07 05:19:03
Local clock offset: -0.453 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-07 09:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.71 Mbit/s
95th percentile per-packet one-way delay: 64.202 ms
Loss rate: 0.00%
-- Flow 1:
  Average throughput: 187.59 Mbit/s
  95th percentile per-packet one-way delay: 61.902 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 103.80 Mbit/s
  95th percentile per-packet one-way delay: 58.016 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 182.80 Mbit/s
  95th percentile per-packet one-way delay: 79.095 ms
  Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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

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

Start at: 2018-06-07 05:41:57
End at: 2018-06-07 05:42:27
Local clock offset: -0.325 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-07 09:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 254.39 Mbit/s
95th percentile per-packet one-way delay: 57.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.92 Mbit/s
95th percentile per-packet one-way delay: 59.595 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 101.21 Mbit/s
95th percentile per-packet one-way delay: 54.364 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 138.67 Mbit/s
95th percentile per-packet one-way delay: 56.767 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-06-07 06:05:04
End at: 2018-06-07 06:05:34
Local clock offset: 0.054 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 09:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.79 Mbit/s
95th percentile per-packet one-way delay: 78.884 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 96.85 Mbit/s
95th percentile per-packet one-way delay: 54.927 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 135.35 Mbit/s
95th percentile per-packet one-way delay: 110.324 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 144.50 Mbit/s
95th percentile per-packet one-way delay: 57.687 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

The upper graph shows the throughput over time for different flows, with blue representing Flow 1 ingress (mean 96.85 Mbit/s), green representing Flow 1 egress (mean 96.85 Mbit/s), blue dashed representing Flow 2 ingress (mean 135.35 Mbit/s), green dashed representing Flow 2 egress (mean 135.35 Mbit/s), and green dotted representing Flow 3 ingress (mean 144.49 Mbit/s) and Flow 3 egress (mean 144.59 Mbit/s). The lower graph displays the per-packet one-way delay for each flow, with dots marking the 95th percentile for Flow 1 at 54.91 ms, Flow 2 at 110.32 ms, and Flow 3 at 57.69 ms.
Run 4: Statistics of Copa

Start at: 2018-06-07 06:28:21
End at: 2018-06-07 06:28:51
Local clock offset: 0.039 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-07 09:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 293.88 Mbit/s
95th percentile per-packet one-way delay: 56.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.68 Mbit/s
95th percentile per-packet one-way delay: 57.489 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 123.80 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 149.76 Mbit/s
95th percentile per-packet one-way delay: 55.297 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

[Graph showing throughput and per-packet round-trip time over time for different flows.

Legend:
- Flow 1 ingress (mean 161.66 Mbit/s)
- Flow 1 egress (mean 161.68 Mbit/s)
- Flow 2 ingress (mean 123.79 Mbit/s)
- Flow 2 egress (mean 123.80 Mbit/s)
- Flow 3 ingress (mean 149.77 Mbit/s)
- Flow 3 egress (mean 149.76 Mbit/s)

Legend (for round-trip time):
- Flow 1 (95th percentile 57.49 ms)
- Flow 2 (95th percentile 54.15 ms)
- Flow 3 (95th percentile 55.30 ms)
Run 5: Statistics of Copa

Start at: 2018-06-07 06:51:23
End at: 2018-06-07 06:51:53
Local clock offset: -0.025 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-07 09:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.38 Mbit/s
95th percentile per-packet one-way delay: 61.415 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.14 Mbit/s
95th percentile per-packet one-way delay: 66.431 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.19 Mbit/s
95th percentile per-packet one-way delay: 57.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.88 Mbit/s
95th percentile per-packet one-way delay: 58.028 ms
Loss rate: 0.00%
Run 6: Statistics of Copa

Start at: 2018-06-07 07:14:32
End at: 2018-06-07 07:15:02
Local clock offset: -0.362 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 09:28:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.36 Mbit/s
95th percentile per-packet one-way delay: 60.289 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 128.93 Mbit/s
95th percentile per-packet one-way delay: 60.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.14 Mbit/s
95th percentile per-packet one-way delay: 60.025 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 205.58 Mbit/s
95th percentile per-packet one-way delay: 60.212 ms
Loss rate: 0.04%
Run 6: Report of Copa — Data Link

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

- Flow 1 ingress (mean 128.93 Mbit/s)
- Flow 1 egress (mean 128.93 Mbit/s)
- Flow 2 ingress (mean 162.59 Mbit/s)
- Flow 2 egress (mean 162.14 Mbit/s)
- Flow 3 ingress (mean 205.66 Mbit/s)
- Flow 3 egress (mean 205.58 Mbit/s)
Run 7: Statistics of Copa

Start at: 2018-06-07 07:37:39
End at: 2018-06-07 07:38:09
Local clock offset: 0.001 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-07 09:30:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 193.72 Mbit/s
  95th percentile per-packet one-way delay: 56.206 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 100.13 Mbit/s
  95th percentile per-packet one-way delay: 52.076 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 97.59 Mbit/s
  95th percentile per-packet one-way delay: 65.468 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 86.09 Mbit/s
  95th percentile per-packet one-way delay: 51.636 ms
  Loss rate: 0.00%
Run 7: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 100.14 Mbit/s)**
- **Flow 1 egress (mean 100.13 Mbit/s)**
- **Flow 2 ingress (mean 97.70 Mbit/s)**
- **Flow 2 egress (mean 97.59 Mbit/s)**
- **Flow 3 ingress (mean 86.09 Mbit/s)**
- **Flow 3 egress (mean 86.09 Mbit/s)**

![Graph showing packet delay distribution.]

- **Flow 1 (95th percentile 52.08 ms)**
- **Flow 2 (95th percentile 65.47 ms)**
- **Flow 3 (95th percentile 51.64 ms)**
Run 8: Statistics of Copa

Start at: 2018-06-07 08:00:55
End at: 2018-06-07 08:01:25
Local clock offset: -0.008 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-06-07 09:33:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.94 Mbit/s
95th percentile per-packet one-way delay: 59.565 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.13 Mbit/s
95th percentile per-packet one-way delay: 59.916 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.23 Mbit/s
95th percentile per-packet one-way delay: 58.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.43 Mbit/s
95th percentile per-packet one-way delay: 61.598 ms
Loss rate: 0.00%
Run 9: Statistics of Copa

Start at: 2018-06-07 08:24:00
End at: 2018-06-07 08:24:30
Local clock offset: 0.041 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 09:33:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.75 Mbit/s
95th percentile per-packet one-way delay: 64.057 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.60 Mbit/s
95th percentile per-packet one-way delay: 62.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.77 Mbit/s
95th percentile per-packet one-way delay: 66.721 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 64.878 ms
Loss rate: 0.01%
Run 9: Report of Copa — Data Link

![Graph showing throughput over time for different flows with varying mean bandwidths.]

Flow 1 ingress (mean 168.60 Mbit/s), Flow 1 egress (mean 168.60 Mbit/s), Flow 2 ingress (mean 109.82 Mbit/s), Flow 2 egress (mean 109.77 Mbit/s), Flow 3 ingress (mean 96.64 Mbit/s), Flow 3 egress (mean 96.63 Mbit/s)

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

Flow 1 (95th percentile 62.72 ms), Flow 2 (95th percentile 66.72 ms), Flow 3 (95th percentile 64.88 ms)
Run 10: Statistics of Copa

Start at: 2018-06-07 08:47:16
End at: 2018-06-07 08:47:46
Local clock offset: 0.088 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 09:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.28 Mbit/s
95th percentile per-packet one-way delay: 60.444 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 165.34 Mbit/s
95th percentile per-packet one-way delay: 58.986 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 144.39 Mbit/s
95th percentile per-packet one-way delay: 59.752 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.27 Mbit/s
95th percentile per-packet one-way delay: 67.025 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 165.43 Mbit/s)
- Flow 1 egress (mean 165.34 Mbit/s)
- Flow 2 ingress (mean 144.38 Mbit/s)
- Flow 2 egress (mean 144.39 Mbit/s)
- Flow 3 ingress (mean 119.27 Mbit/s)
- Flow 3 egress (mean 119.27 Mbit/s)
Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 05:04:22
End at: 2018-06-07 05:04:52
Local clock offset: -0.084 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-07 09:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.66 Mbit/s
95th percentile per-packet one-way delay: 60.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.15 Mbit/s
95th percentile per-packet one-way delay: 61.267 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 144.16 Mbit/s
95th percentile per-packet one-way delay: 56.108 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 0.16%
Run 1: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 228.23 Mbit/s)**
- **Flow 1 egress (mean 228.15 Mbit/s)**
- **Flow 2 ingress (mean 144.15 Mbit/s)**
- **Flow 2 egress (mean 144.16 Mbit/s)**
- **Flow 3 ingress (mean 5.41 Mbit/s)**
- **Flow 3 egress (mean 5.40 Mbit/s)**

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

- **Flow 1 (95th percentile 61.27 ms)**
- **Flow 2 (95th percentile 56.11 ms)**
- **Flow 3 (95th percentile 53.80 ms)**
Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 05:27:36
End at: 2018-06-07 05:28:06
Local clock offset: -0.381 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-07 09:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.32 Mbit/s
95th percentile per-packet one-way delay: 63.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.88 Mbit/s
95th percentile per-packet one-way delay: 62.585 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.41 Mbit/s
95th percentile per-packet one-way delay: 61.443 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 215.20 Mbit/s
95th percentile per-packet one-way delay: 64.989 ms
Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet delay over time for different flows.]
Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 05:50:48
End at: 2018-06-07 05:51:18
Local clock offset: 0.078 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-07 09:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.79 Mbit/s
95th percentile per-packet one-way delay: 60.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 181.44 Mbit/s
95th percentile per-packet one-way delay: 61.990 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 105.91 Mbit/s
95th percentile per-packet one-way delay: 55.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 131.94 Mbit/s
95th percentile per-packet one-way delay: 54.250 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link

![Graph showing throughput over time for different flows]

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

Legend:
- Flow 1 ingress (mean 181.45 Mbit/s)
- Flow 1 egress (mean 181.44 Mbit/s)
- Flow 2 ingress (mean 105.91 Mbit/s)
- Flow 2 egress (mean 105.91 Mbit/s)
- Flow 3 ingress (mean 131.95 Mbit/s)
- Flow 3 egress (mean 131.94 Mbit/s)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 06:13:52
End at: 2018-06-07 06:14:22
Local clock offset: 0.025 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 09:34:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 391.38 Mbit/s
  95th percentile per-packet one-way delay: 64.593 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 214.40 Mbit/s
  95th percentile per-packet one-way delay: 64.837 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 211.91 Mbit/s
  95th percentile per-packet one-way delay: 64.393 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 107.78 Mbit/s
  95th percentile per-packet one-way delay: 63.308 ms
  Loss rate: 0.00%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 214.41 Mbit/s)
- Flow 1 egress (mean 214.40 Mbit/s)
- Flow 2 ingress (mean 211.92 Mbit/s)
- Flow 2 egress (mean 211.91 Mbit/s)
- Flow 3 ingress (mean 107.78 Mbit/s)
- Flow 3 egress (mean 107.78 Mbit/s)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 06:37:06
End at: 2018-06-07 06:37:36
Local clock offset: 0.4 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 09:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 263.98 Mbit/s
95th percentile per-packet one-way delay: 51.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.95 Mbit/s
95th percentile per-packet one-way delay: 52.153 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.89 Mbit/s
95th percentile per-packet one-way delay: 51.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.69 Mbit/s
95th percentile per-packet one-way delay: 49.699 ms
Loss rate: 0.11%
Run 5: Report of TCP Cubic — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 144.94 Mbps)**
- **Flow 1 egress (mean 144.95 Mbps)**
- **Flow 2 ingress (mean 175.87 Mbps)**
- **Flow 2 egress (mean 175.89 Mbps)**
- **Flow 3 ingress (mean 5.70 Mbps)**
- **Flow 3 egress (mean 5.69 Mbps)**

---

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

- **Flow 1 (95th percentile 52.15 ms)**
- **Flow 2 (95th percentile 51.61 ms)**
- **Flow 3 (95th percentile 49.70 ms)**

---

53
Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 07:00:10
End at: 2018-06-07 07:00:40
Local clock offset: 0.38 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-07 09:36:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 311.85 Mbit/s
  95th percentile per-packet one-way delay: 61.724 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 160.57 Mbit/s
  95th percentile per-packet one-way delay: 59.706 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 224.75 Mbit/s
  95th percentile per-packet one-way delay: 62.865 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 5.15 Mbit/s
  95th percentile per-packet one-way delay: 57.123 ms
  Loss rate: 0.19%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

End at: 2018-06-07 07:23:53
Local clock offset: -0.344 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 09:38:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 373.73 Mbit/s
  95th percentile per-packet one-way delay: 63.803 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 227.20 Mbit/s
  95th percentile per-packet one-way delay: 63.275 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 217.24 Mbit/s
  95th percentile per-packet one-way delay: 64.917 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 5.45 Mbit/s
  95th percentile per-packet one-way delay: 56.711 ms
  Loss rate: 0.13%
Run 7: Report of TCP Cubic — Data Link

![Graph of Throughput vs Time showing data for different flows with corresponding mean throughput values.]

![Graph of Packet Loss vs Time showing per packet delay values for different flows.]

Legend:
- Flow 1 ingress (mean 227.31 Mbit/s)
- Flow 1 egress (mean 227.20 Mbit/s)
- Flow 2 ingress (mean 217.30 Mbit/s)
- Flow 2 egress (mean 217.24 Mbit/s)
- Flow 3 ingress (mean 5.46 Mbit/s)
- Flow 3 egress (mean 5.45 Mbit/s)
Run 8: Statistics of TCP Cubic

Start at: 2018-06-07 07:46:32
End at: 2018-06-07 07:47:02
Local clock offset: -0.01 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-07 09:38:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.53 Mbit/s
95th percentile per-packet one-way delay: 66.090 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 175.89 Mbit/s
95th percentile per-packet one-way delay: 63.796 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 204.11 Mbit/s
95th percentile per-packet one-way delay: 66.452 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 213.32 Mbit/s
95th percentile per-packet one-way delay: 68.673 ms
Loss rate: 0.07%
Run 8: Report of TCP Cubic — Data Link
Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 08:09:45
End at: 2018-06-07 08:10:15
Local clock offset: 0.414 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-06-07 09:38:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.74 Mbit/s
95th percentile per-packet one-way delay: 59.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.38 Mbit/s
95th percentile per-packet one-way delay: 60.099 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 54.20 Mbit/s
95th percentile per-packet one-way delay: 55.782 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 54.959 ms
Loss rate: 0.26%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 08:32:47
End at: 2018-06-07 08:33:17
Local clock offset: 0.045 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-07 09:38:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.52 Mbit/s
95th percentile per-packet one-way delay: 61.752 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 165.33 Mbit/s
95th percentile per-packet one-way delay: 62.279 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 187.93 Mbit/s
95th percentile per-packet one-way delay: 61.601 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 117.37 Mbit/s
95th percentile per-packet one-way delay: 57.891 ms
Loss rate: 0.02%
Run 10: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet one-way delay](image-url)
Run 1: Statistics of FillP

Start at: 2018-06-07 05:06:55
End at: 2018-06-07 05:07:25
Local clock offset: -0.076 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-07 09:58:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1278.41 Mbit/s
95th percentile per-packet one-way delay: 161.620 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 640.92 Mbit/s
95th percentile per-packet one-way delay: 162.850 ms
Loss rate: 5.76%
-- Flow 2:
Average throughput: 665.44 Mbit/s
95th percentile per-packet one-way delay: 187.543 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 584.02 Mbit/s
95th percentile per-packet one-way delay: 110.202 ms
Loss rate: 0.07%
Run 1: Report of FillP — Data Link

Below are two graphs showing the throughput and packet delay for different flows over time.

**Throughput**
- Flow 1 Ingress (mean 680.07 Mb/s)
- Flow 1 Egress (mean 640.92 Mb/s)
- Flow 2 Ingress (mean 679.37 Mb/s)
- Flow 2 Egress (mean 665.44 Mb/s)
- Flow 3 Ingress (mean 584.73 Mb/s)
- Flow 3 Egress (mean 584.02 Mb/s)

**Packet Delay**
- Flow 1 (95th percentile 162.85 ms)
- Flow 2 (95th percentile 187.54 ms)
- Flow 3 (95th percentile 110.20 ms)
Run 2: Statistics of FillP

Start at: 2018-06-07 05:30:09
End at: 2018-06-07 05:30:39
Local clock offset: -0.362 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 09:58:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1271.41 Mbit/s
95th percentile per-packet one-way delay: 137.827 ms
Loss rate: 5.00%
-- Flow 1:
Average throughput: 697.63 Mbit/s
95th percentile per-packet one-way delay: 134.857 ms
Loss rate: 5.40%
-- Flow 2:
Average throughput: 634.71 Mbit/s
95th percentile per-packet one-way delay: 147.701 ms
Loss rate: 5.79%
-- Flow 3:
Average throughput: 457.55 Mbit/s
95th percentile per-packet one-way delay: 117.554 ms
Loss rate: 0.75%
Run 2: Report of FillP — Data Link

The graphs depict the throughput and per-packet one-way delay over time for different flows. The graphs show the performance metrics for Ingress and Egress data, with each flow represented by a distinct line color. The throughput and delay values are measured in Mbit/s and ms, respectively. The graphs illustrate the variation and stability of data transmission and delay across the different flows.
Run 3: Statistics of FILLP

Start at: 2018-06-07 05:53:19
End at: 2018-06-07 05:53:49
Local clock offset: 0.076 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-07 10:00:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1320.38 Mbit/s
95th percentile per-packet one-way delay: 181.142 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 691.26 Mbit/s
95th percentile per-packet one-way delay: 172.241 ms
Loss rate: 4.41%
-- Flow 2:
Average throughput: 672.32 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 4.26%
-- Flow 3:
Average throughput: 545.88 Mbit/s
95th percentile per-packet one-way delay: 224.470 ms
Loss rate: 0.61%
Run 3: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 723.43 Mb/s) vs Egress (mean 691.26 Mb/s)
- Flow 2 Ingress (mean 702.54 Mb/s) vs Egress (mean 672.22 Mb/s)
- Flow 3 Ingress (mean 549.73 Mb/s) vs Egress (mean 545.22 Mb/s)
Run 4: Statistics of FillP

Start at: 2018-06-07 06:16:29
End at: 2018-06-07 06:16:59
Local clock offset: -0.326 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-07 10:02:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1330.08 Mbit/s
95th percentile per-packet one-way delay: 132.877 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 680.62 Mbit/s
95th percentile per-packet one-way delay: 132.029 ms
Loss rate: 4.10%
-- Flow 2:
Average throughput: 659.57 Mbit/s
95th percentile per-packet one-way delay: 136.370 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 635.03 Mbit/s
95th percentile per-packet one-way delay: 126.942 ms
Loss rate: 0.77%
Run 4: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 709.92 Mbps)  Flow 1 egress (mean 680.62 Mbps)
Flow 2 ingress (mean 679.89 Mbps)  Flow 2 egress (mean 659.57 Mbps)
Flow 3 ingress (mean 639.99 Mbps)  Flow 3 egress (mean 635.03 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 132.03 ms)  Flow 2 (95th percentile 136.37 ms)  Flow 3 (95th percentile 126.94 ms)
Run 5: Statistics of FillP

Start at: 2018-06-07 06:39:35
End at: 2018-06-07 06:40:05
Local clock offset: 0.351 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 10:03:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1353.90 Mbit/s
95th percentile per-packet one-way delay: 148.510 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 679.84 Mbit/s
95th percentile per-packet one-way delay: 159.659 ms
Loss rate: 5.31%
-- Flow 2:
Average throughput: 730.44 Mbit/s
95th percentile per-packet one-way delay: 124.015 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 567.41 Mbit/s
95th percentile per-packet one-way delay: 138.322 ms
Loss rate: 3.20%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Start at: 2018-06-07 07:02:42
End at: 2018-06-07 07:03:12
Local clock offset: 0.351 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-06-07 10:03:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1233.26 Mbit/s
95th percentile per-packet one-way delay: 222.158 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 582.40 Mbit/s
95th percentile per-packet one-way delay: 219.813 ms
Loss rate: 6.17%
-- Flow 2:
Average throughput: 705.68 Mbit/s
95th percentile per-packet one-way delay: 141.079 ms
Loss rate: 4.14%
-- Flow 3:
Average throughput: 544.16 Mbit/s
95th percentile per-packet one-way delay: 264.617 ms
Loss rate: 3.80%
Run 6: Report of FillP — Data Link

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

- **Flow 1 Ingress** (mean 620.75 Mbps/s)
- **Flow 1 Egress** (mean 582.40 Mbps/s)
- **Flow 2 Ingress** (mean 736.18 Mbps/s)
- **Flow 2 Egress** (mean 705.68 Mbps/s)
- **Flow 3 Ingress** (mean 565.64 Mbps/s)
- **Flow 3 Egress** (mean 544.16 Mbps/s)

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

- **Flow 1** (95th percentile 219.91 ms)
- **Flow 2** (95th percentile 141.08 ms)
- **Flow 3** (95th percentile 264.62 ms)
Run 7: Statistics of FillP

Start at: 2018-06-07 07:25:58
End at: 2018-06-07 07:26:28
Local clock offset: 0.386 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-07 10:04:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1364.91 Mbit/s
95th percentile per-packet one-way delay: 189.390 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 750.32 Mbit/s
95th percentile per-packet one-way delay: 184.551 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 658.89 Mbit/s
95th percentile per-packet one-way delay: 177.630 ms
Loss rate: 3.57%
-- Flow 3:
Average throughput: 532.31 Mbit/s
95th percentile per-packet one-way delay: 218.937 ms
Loss rate: 1.62%
Run 7: Report of FillP — Data Link

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

- **Flow 1**:
  - Ingress: Mean 773.96 Mb/s
  - Egress: Mean 750.32 Mb/s

- **Flow 2**:
  - Ingress: Mean 683.27 Mb/s
  - Egress: Mean 658.89 Mb/s

- **Flow 3**: (Red)
  - Ingress: Mean 540.95 Mb/s
  - Egress: Mean 532.31 Mb/s

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

- **Flow 1** (95th percentile 184.55 ms)
- **Flow 2** (95th percentile 177.63 ms)
- **Flow 3** (95th percentile 210.94 ms)
Run 8: Statistics of FillP

Start at: 2018-06-07 07:49:08
End at: 2018-06-07 07:49:38
Local clock offset: ~0.013 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-06-07 10:04:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1326.52 Mbit/s
95th percentile per-packet one-way delay: 176.322 ms
Loss rate: 3.67%
-- Flow 1:
Average throughput: 727.08 Mbit/s
95th percentile per-packet one-way delay: 137.194 ms
Loss rate: 4.68%
-- Flow 2:
Average throughput: 656.21 Mbit/s
95th percentile per-packet one-way delay: 181.810 ms
Loss rate: 2.77%
-- Flow 3:
Average throughput: 491.76 Mbit/s
95th percentile per-packet one-way delay: 225.504 ms
Loss rate: 1.41%
Run 8: Report of FillP — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 Ingress (mean 762.64 Mbps/s)
Flow 1 Egress (mean 727.08 Mbps/s)
Flow 2 Ingress (mean 674.94 Mbps/s)
Flow 2 Egress (mean 656.23 Mbps/s)
Flow 3 Ingress (mean 498.80 Mbps/s)
Flow 3 Egress (mean 491.76 Mbps/s)

Packet delay (ms)

Time (s)

Flow 1 (95th percentile 137.19 ms)
Flow 2 (95th percentile 181.81 ms)
Flow 3 (95th percentile 225.50 ms)
Run 9: Statistics of FillP

Start at: 2018-06-07 08:12:15
End at: 2018-06-07 08:12:45
Local clock offset: 0.02 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-06-07 10:25:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1307.21 Mbit/s
95th percentile per-packet one-way delay: 177.053 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 684.93 Mbit/s
95th percentile per-packet one-way delay: 168.866 ms
Loss rate: 4.01%
-- Flow 2:
Average throughput: 664.26 Mbit/s
95th percentile per-packet one-way delay: 135.593 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 544.99 Mbit/s
95th percentile per-packet one-way delay: 215.150 ms
Loss rate: 1.95%
Run 9: Report of FillP — Data Link

![Graph of Throughput](chart1.png)

- **Flow 1 Ingress (mean 713.57 Mbit/s)**
- **Flow 1 Egress (mean 684.93 Mbit/s)**
- **Flow 2 Ingress (mean 685.11 Mbit/s)**
- **Flow 2 Egress (mean 664.26 Mbit/s)**
- **Flow 3 Ingress (mean 555.88 Mbit/s)**
- **Flow 3 Egress (mean 544.99 Mbit/s)**

![Graph of Delay](chart2.png)

- **Flow 1 (95th percentile 168.87 ms)**
- **Flow 2 (95th percentile 135.59 ms)**
- **Flow 3 (95th percentile 215.15 ms)**

81
Run 10: Statistics of FillP

Start at: 2018-06-07 08:35:20
End at: 2018-06-07 08:35:50
Local clock offset: 0.442 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1415.25 Mbit/s
  95th percentile per-packet one-way delay: 133.569 ms
  Loss rate: 3.64%
-- Flow 1:
  Average throughput: 747.23 Mbit/s
  95th percentile per-packet one-way delay: 133.031 ms
  Loss rate: 4.28%
-- Flow 2:
  Average throughput: 680.95 Mbit/s
  95th percentile per-packet one-way delay: 137.315 ms
  Loss rate: 3.20%
-- Flow 3:
  Average throughput: 647.67 Mbit/s
  95th percentile per-packet one-way delay: 127.058 ms
  Loss rate: 2.25%
Run 10: Report of FillIP — Data Link

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

- Flow 1 ingress (mean 780.72 Mbit/s)
- Flow 1 egress (mean 747.23 Mbit/s)
- Flow 2 ingress (mean 703.53 Mbit/s)
- Flow 2 egress (mean 680.95 Mbit/s)
- Flow 3 ingress (mean 652.63 Mbit/s)
- Flow 3 egress (mean 647.67 Mbit/s)

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

- Flow 1 (95th percentile 133.03 ms)
- Flow 2 (95th percentile 137.31 ms)
- Flow 3 (95th percentile 127.06 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-07 05:15:30
End at: 2018-06-07 05:16:00
Local clock offset: -0.053 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.69 Mbit/s
95th percentile per-packet one-way delay: 55.642 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.74 Mbit/s
95th percentile per-packet one-way delay: 55.476 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.60 Mbit/s
95th percentile per-packet one-way delay: 57.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 54.382 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

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

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

Start at: 2018-06-07 05:38:51
End at: 2018-06-07 05:39:21
Local clock offset: 0.068 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.87 Mbit/s
95th percentile per-packet one-way delay: 56.029 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 212.41 Mbit/s
95th percentile per-packet one-way delay: 54.662 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 208.50 Mbit/s
95th percentile per-packet one-way delay: 61.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.86 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 0.01%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2018-06-07 06:01:58
End at: 2018-06-07 06:02:28
Local clock offset: 0.452 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.05 Mbit/s
95th percentile per-packet one-way delay: 55.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.20 Mbit/s
95th percentile per-packet one-way delay: 54.111 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 201.25 Mbit/s
95th percentile per-packet one-way delay: 57.826 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 184.69 Mbit/s
95th percentile per-packet one-way delay: 57.319 ms
Loss rate: 0.01%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-06-07 06:25:14
End at: 2018-06-07 06:25:44
Local clock offset: -0.334 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 430.41 Mbit/s
95th percentile per-packet one-way delay: 56.252 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.53 Mbit/s
95th percentile per-packet one-way delay: 55.719 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 224.62 Mbit/s
95th percentile per-packet one-way delay: 57.411 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 172.18 Mbit/s
95th percentile per-packet one-way delay: 55.271 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

![Chart 1: Throughput over Time](chart1.png)

- **Flow 1 ingress (mean 225.52 Mbit/s)**
- **Flow 1 egress (mean 225.53 Mbit/s)**
- **Flow 2 ingress (mean 224.80 Mbit/s)**
- **Flow 2 egress (mean 224.62 Mbit/s)**
- **Flow 3 ingress (mean 172.15 Mbit/s)**
- **Flow 3 egress (mean 172.18 Mbit/s)**

![Chart 2: Per-packet one-way delay over Time](chart2.png)

- **Flow 1 (95th percentile 55.72 ms)**
- **Flow 2 (95th percentile 57.41 ms)**
- **Flow 3 (95th percentile 55.27 ms)**
Run 5: Statistics of Indigo

Start at: 2018-06-07 06:48:18
End at: 2018-06-07 06:48:48
Local clock offset: -0.011 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 433.07 Mbit/s
95th percentile per-packet one-way delay: 55.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.41 Mbit/s
95th percentile per-packet one-way delay: 55.846 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 228.37 Mbit/s
95th percentile per-packet one-way delay: 55.814 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.06 Mbit/s
95th percentile per-packet one-way delay: 55.518 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

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

Start at: 2018-06-07 07:11:27
End at: 2018-06-07 07:11:57
Local clock offset: -0.016 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 417.39 Mbit/s
95th percentile per-packet one-way delay: 56.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.91 Mbit/s
95th percentile per-packet one-way delay: 55.151 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.67 Mbit/s
95th percentile per-packet one-way delay: 57.305 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 167.10 Mbit/s
95th percentile per-packet one-way delay: 55.623 ms
Loss rate: 0.00%
Run 6: Report of Indigo — Data Link

[Graphs showing throughput and packet loss over time for different flows, with annotations for each flow's mean throughput and packet loss.]
Run 7: Statistics of Indigo

Start at: 2018-06-07 07:34:36
End at: 2018-06-07 07:35:06
Local clock offset: 0.388 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.93 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.55 Mbit/s
95th percentile per-packet one-way delay: 53.364 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.17 Mbit/s
95th percentile per-packet one-way delay: 53.410 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 172.31 Mbit/s
95th percentile per-packet one-way delay: 52.293 ms
Loss rate: 0.00%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-07 07:57:50
End at: 2018-06-07 07:58:20
Local clock offset: -0.025 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.21 Mbit/s
95th percentile per-packet one-way delay: 58.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.72 Mbit/s
95th percentile per-packet one-way delay: 57.577 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.03 Mbit/s
95th percentile per-packet one-way delay: 58.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.58 Mbit/s
95th percentile per-packet one-way delay: 58.897 ms
Loss rate: 0.01%
Run 8: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 226.72 Mbit/s)**
- **Flow 1 egress (mean 226.72 Mbit/s)**
- **Flow 2 ingress (mean 192.05 Mbit/s)**
- **Flow 2 egress (mean 192.03 Mbit/s)**
- **Flow 3 ingress (mean 157.60 Mbit/s)**
- **Flow 3 egress (mean 157.58 Mbit/s)**

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

- **Flow 1 (95th percentile 57.58 ms)**
- **Flow 2 (95th percentile 58.62 ms)**
- **Flow 3 (95th percentile 58.90 ms)**
Run 9: Statistics of Indigo

Start at: 2018-06-07 08:20:54
End at: 2018-06-07 08:21:24
Local clock offset: 0.028 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 409.69 Mbit/s
  95th percentile per-packet one-way delay: 55.451 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 210.14 Mbit/s
  95th percentile per-packet one-way delay: 54.331 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 219.08 Mbit/s
  95th percentile per-packet one-way delay: 56.499 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 168.52 Mbit/s
  95th percentile per-packet one-way delay: 57.046 ms
  Loss rate: 0.00%
Run 9: Report of Indigo — Data Link

![Graph of data link performance with throughput and per-packet delay metrics.]

- Flow 1 ingress (mean 210.16 Mbit/s)
- Flow 1 egress (mean 210.14 Mbit/s)
- Flow 2 ingress (mean 219.07 Mbit/s)
- Flow 2 egress (mean 219.08 Mbit/s)
- Flow 3 ingress (mean 168.52 Mbit/s)
- Flow 3 egress (mean 168.52 Mbit/s)
Run 10: Statistics of Indigo

Start at: 2018-06-07 08:44:10
End at: 2018-06-07 08:44:40
Local clock offset: -0.324 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 429.42 Mbit/s
95th percentile per-packet one-way delay: 57.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.80 Mbit/s
95th percentile per-packet one-way delay: 57.341 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 228.28 Mbit/s
95th percentile per-packet one-way delay: 58.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 167.92 Mbit/s
95th percentile per-packet one-way delay: 56.950 ms
Loss rate: 0.00%
Run 10: Report of Indigo — Data Link

[Graphs showing throughput and packetwise delay over time, with annotations for each flow's mean throughput and 95th percentile delay.]
Run 1: Statistics of LEDBAT

Start at: 2018-06-07 05:11:42
End at: 2018-06-07 05:12:12
Local clock offset: -0.079 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.18 Mbit/s
95th percentile per-packet one-way delay: 52.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 53.089 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 52.481 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 52.550 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 24.72 Mbps)
- Flow 1 egress (mean 24.72 Mbps)
- Flow 2 ingress (mean 22.10 Mbps)
- Flow 2 egress (mean 22.10 Mbps)
- Flow 3 ingress (mean 11.43 Mbps)
- Flow 3 egress (mean 11.43 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 53.09 ms)
- Flow 2 (95th percentile 52.48 ms)
- Flow 3 (95th percentile 52.55 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-06-07 05:34:59
End at: 2018-06-07 05:35:29
Local clock offset: 0.037 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.16 Mbit/s
95th percentile per-packet one-way delay: 52.501 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 52.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 52.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 52.408 ms
Loss rate: 0.12%
Run 2: Report of LEDBAT — Data Link

[Graphs showing throughput and per-packet one-way delay for different flows over time.]
Run 3: Statistics of LEDBAT

Start at: 2018-06-07 05:58:06
End at: 2018-06-07 05:58:36
Local clock offset: 0.115 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 54.21 Mbit/s
  95th percentile per-packet one-way delay: 52.309 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 34.89 Mbit/s
  95th percentile per-packet one-way delay: 52.443 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 23.35 Mbit/s
  95th percentile per-packet one-way delay: 51.903 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 11.42 Mbit/s
  95th percentile per-packet one-way delay: 52.405 ms
  Loss rate: 0.02%
Run 3: Report of LEDBAT — Data Link

Graph 1: Throughput over time for different flows.

Graph 2: Per-packet one-way delay over time for different flows.

Legend for Graph 1:
- Flow 1 ingress (mean 34.89 Mbit/s)
- Flow 1 egress (mean 34.89 Mbit/s)
- Flow 2 ingress (mean 23.35 Mbit/s)
- Flow 2 egress (mean 23.35 Mbit/s)
- Flow 3 ingress (mean 11.42 Mbit/s)
- Flow 3 egress (mean 11.42 Mbit/s)

Legend for Graph 2:
- Flow 1 (95th percentile 52.44 ms)
- Flow 2 (95th percentile 51.90 ms)
- Flow 3 (95th percentile 52.41 ms)
Run 4: Statistics of LEDBAT

Start at: 2018-06-07 06:21:22
End at: 2018-06-07 06:21:52
Local clock offset: 0.041 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 50.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.81 Mbit/s
95th percentile per-packet one-way delay: 50.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.36 Mbit/s
95th percentile per-packet one-way delay: 50.481 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

[Graph showing throughput and packet delay over time for different flows]
Run 5: Statistics of LEDBAT

Start at: 2018-06-07 06:44:27
End at: 2018-06-07 06:44:57
Local clock offset: 0.382 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.73 Mbit/s
95th percentile per-packet one-way delay: 51.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.74 Mbit/s
95th percentile per-packet one-way delay: 52.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.11 Mbit/s
95th percentile per-packet one-way delay: 51.571 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 50.845 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

- **Flow 1 Ingress (mean 34.74 Mbit/s)**
- **Flow 1 Egress (mean 34.74 Mbit/s)**
- **Flow 2 Ingress (mean 23.11 Mbit/s)**
- **Flow 2 Egress (mean 23.11 Mbit/s)**
- **Flow 3 Ingress (mean 10.91 Mbit/s)**
- **Flow 3 Egress (mean 10.91 Mbit/s)**

![Graph 2: Time vs Per-Packet Round-Trip Delay](image2)

- **Flow 1 (95th percentile 52.29 ms)**
- **Flow 2 (95th percentile 51.57 ms)**
- **Flow 3 (95th percentile 50.84 ms)**
Run 6: Statistics of LEDBAT

Start at: 2018-06-07 07:07:36
End at: 2018-06-07 07:08:06
Local clock offset: 0.335 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.20 Mbit/s
95th percentile per-packet one-way delay: 51.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 51.682 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.81 Mbit/s
95th percentile per-packet one-way delay: 51.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 51.149 ms
Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link

![Graph of throughput over time for different flows]

- Flow 1 ingress (mean 34.51 Mbit/s)
- Flow 1 egress (mean 34.51 Mbit/s)
- Flow 2 ingress (mean 23.81 Mbit/s)
- Flow 2 egress (mean 23.81 Mbit/s)
- Flow 3 ingress (mean 11.76 Mbit/s)
- Flow 3 egress (mean 11.75 Mbit/s)

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

- Flow 1 (95th percentile 51.60 ms)
- Flow 2 (95th percentile 51.72 ms)
- Flow 3 (95th percentile 51.15 ms)
Run 7: Statistics of LEDBAT

Start at: 2018-06-07 07:30:44
End at: 2018-06-07 07:31:14
Local clock offset: 0.051 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.98 Mbit/s
95th percentile per-packet one-way delay: 52.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.81 Mbit/s
95th percentile per-packet one-way delay: 52.413 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 52.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 51.516 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-06-07 07:53:58
End at: 2018-06-07 07:54:28
Local clock offset: -0.371 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.90 Mbit/s
  95th percentile per-packet one-way delay: 51.662 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 34.25 Mbit/s
  95th percentile per-packet one-way delay: 51.705 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 24.11 Mbit/s
  95th percentile per-packet one-way delay: 51.488 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 10.95 Mbit/s
  95th percentile per-packet one-way delay: 51.403 ms
  Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link

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

- **Flow 1 ing (mean 34.25 Mbit/s)**
- **Flow 1 egress (mean 34.25 Mbit/s)**
- **Flow 2 ing (mean 24.11 Mbit/s)**
- **Flow 2 egress (mean 24.11 Mbit/s)**
- **Flow 3 ing (mean 10.95 Mbit/s)**
- **Flow 3 egress (mean 10.95 Mbit/s)**

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

- **Flow 1 (95th percentile 51.70 ms)**
- **Flow 2 (95th percentile 51.49 ms)**
- **Flow 3 (95th percentile 51.40 ms)**
Run 9: Statistics of LEDBAT

Start at: 2018-06-07 08:17:04
End at: 2018-06-07 08:17:34
Local clock offset: 0.389 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 51.05 Mbit/s
  95th percentile per-packet one-way delay: 51.003 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 33.83 Mbit/s
  95th percentile per-packet one-way delay: 51.162 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 20.84 Mbit/s
  95th percentile per-packet one-way delay: 50.451 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 10.16 Mbit/s
  95th percentile per-packet one-way delay: 49.725 ms
  Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

![Time vs Throughput Diagram]

- **Flow 1 Ingress** (mean 33.83 Mbit/s)
- **Flow 1 Egress** (mean 33.83 Mbit/s)
- **Flow 2 Ingress** (mean 20.84 Mbit/s)
- **Flow 2 Egress** (mean 20.84 Mbit/s)
- **Flow 3 Ingress** (mean 10.16 Mbit/s)
- **Flow 3 Egress** (mean 10.16 Mbit/s)

![Per Packet One Way Delay Diagram]

- **Flow 1 (95th percentile 51.16 ms)**
- **Flow 2 (95th percentile 50.45 ms)**
- **Flow 3 (95th percentile 49.73 ms)**
Run 10: Statistics of LEDBAT

Start at: 2018-06-07 08:40:17
End at: 2018-06-07 08:40:47
Local clock offset: 0.426 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.43 Mbit/s
95th percentile per-packet one-way delay: 52.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.31 Mbit/s
95th percentile per-packet one-way delay: 52.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 51.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 51.358 ms
Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 35.31 Mbit/s)
Flow 1 egress (mean 35.31 Mbit/s)
Flow 2 ingress (mean 22.97 Mbit/s)
Flow 2 egress (mean 22.97 Mbit/s)
Flow 3 ingress (mean 11.74 Mbit/s)
Flow 3 egress (mean 11.74 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 52.24 ms)
Flow 2 (95th percentile 51.90 ms)
Flow 3 (95th percentile 51.36 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 05:14:01
End at: 2018-06-07 05:14:31
Local clock offset: -0.056 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.11 Mbit/s
95th percentile per-packet one-way delay: 105.736 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 421.18 Mbit/s
95th percentile per-packet one-way delay: 114.441 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 226.60 Mbit/s
95th percentile per-packet one-way delay: 88.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 87.993 ms
Loss rate: 0.00%
Run 1: Report of PCC-Allegro — Data Link

Throughput (Mbit/s)

| Flow 1 ingress (mean 425.81 Mbit/s) | Flow 1 egress (mean 421.18 Mbit/s) |
| Flow 2 ingress (mean 226.60 Mbit/s) | Flow 2 egress (mean 226.60 Mbit/s) |
| Flow 3 ingress (mean 9.29 Mbit/s)   | Flow 3 egress (mean 9.29 Mbit/s)    |

Per-packet one way delay (ms)

| Flow 1 (95th percentile 114.44 ms) | Flow 2 (95th percentile 88.78 ms) | Flow 3 (95th percentile 87.99 ms) |
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 05:37:22
End at: 2018-06-07 05:37:52
Local clock offset: 0.042 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 582.87 Mbit/s
95th percentile per-packet one-way delay: 226.263 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 500.10 Mbit/s
95th percentile per-packet one-way delay: 232.219 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 122.17 Mbit/s
95th percentile per-packet one-way delay: 162.250 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 158.339 ms
Loss rate: 0.00%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 06:00:29
End at: 2018-06-07 06:00:59
Local clock offset: 0.094 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.18 Mbit/s
95th percentile per-packet one-way delay: 180.697 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 492.03 Mbit/s
95th percentile per-packet one-way delay: 198.847 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 114.58 Mbit/s
95th percentile per-packet one-way delay: 160.026 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 160.371 ms
Loss rate: 1.78%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 501.21 Mbit/s)
- Flow 1 egress (mean 492.03 Mbit/s)
- Flow 2 ingress (mean 116.01 Mbit/s)
- Flow 2 egress (mean 114.58 Mbit/s)
- Flow 3 ingress (mean 30.82 Mbit/s)
- Flow 3 egress (mean 30.11 Mbit/s)

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

- Flow 1 (95th percentile 198.85 ms)
- Flow 2 (95th percentile 160.03 ms)
- Flow 3 (95th percentile 160.37 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 06:23:45
End at: 2018-06-07 06:24:15
Local clock offset: 0.04 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-07 10:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 569.28 Mbit/s
  95th percentile per-packet one-way delay: 271.320 ms
  Loss rate: 4.03%
-- Flow 1:
  Average throughput: 460.32 Mbit/s
  95th percentile per-packet one-way delay: 286.316 ms
  Loss rate: 4.62%
-- Flow 2:
  Average throughput: 134.70 Mbit/s
  95th percentile per-packet one-way delay: 162.400 ms
  Loss rate: 1.58%
-- Flow 3:
  Average throughput: 60.67 Mbit/s
  95th percentile per-packet one-way delay: 161.439 ms
  Loss rate: 1.22%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 06:46:50
End at: 2018-06-07 06:47:20
Local clock offset: 0.397 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-07 10:27:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.27 Mbit/s
95th percentile per-packet one-way delay: 237.847 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 503.01 Mbit/s
95th percentile per-packet one-way delay: 241.702 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 74.42 Mbit/s
95th percentile per-packet one-way delay: 162.628 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 163.652 ms
Loss rate: 1.68%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 07:09:59
End at: 2018-06-07 07:10:29
Local clock offset: -0.017 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 10:27:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.12 Mbit/s
95th percentile per-packet one-way delay: 187.859 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 508.79 Mbit/s
95th percentile per-packet one-way delay: 190.129 ms
Loss rate: 4.40%
-- Flow 2:
Average throughput: 58.93 Mbit/s
95th percentile per-packet one-way delay: 164.798 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 165.861 ms
Loss rate: 5.98%
Run 6: Report of PCC-Allegro — Data Link

![Graph showing throughput in Mbps over time for different flows.]

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

Legend for throughput graph:
- Flow 1 ingress (mean 533.19 Mbit/s)
- Flow 1 egress (mean 508.79 Mbit/s)
- Flow 2 ingress (mean 61.37 Mbit/s)
- Flow 2 egress (mean 58.93 Mbit/s)
- Flow 3 ingress (mean 61.49 Mbit/s)
- Flow 3 egress (mean 57.61 Mbit/s)

Legend for delay graph:
- Flow 1 (95th percentile 190.13 ms)
- Flow 2 (95th percentile 164.80 ms)
- Flow 3 (95th percentile 163.86 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 07:33:07
End at: 2018-06-07 07:33:37
Local clock offset: 0.025 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-07 10:33:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 581.24 Mbit/s
  95th percentile per-packet one-way delay: 246.690 ms
  Loss rate: 3.12%
-- Flow 1:
  Average throughput: 465.06 Mbit/s
  95th percentile per-packet one-way delay: 256.409 ms
  Loss rate: 3.34%
-- Flow 2:
  Average throughput: 122.64 Mbit/s
  95th percentile per-packet one-way delay: 162.826 ms
  Loss rate: 2.39%
-- Flow 3:
  Average throughput: 104.75 Mbit/s
  95th percentile per-packet one-way delay: 156.257 ms
  Loss rate: 1.89%
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 07:56:21  
End at: 2018-06-07 07:56:51  
Local clock offset: ~0.005 ms  
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-06-07 10:33:47  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 573.00 Mbit/s  
95th percentile per-packet one-way delay: 172.880 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 443.94 Mbit/s  
95th percentile per-packet one-way delay: 178.945 ms  
Loss rate: 1.24%  
-- Flow 2:  
Average throughput: 132.19 Mbit/s  
95th percentile per-packet one-way delay: 163.989 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 125.56 Mbit/s  
95th percentile per-packet one-way delay: 159.006 ms  
Loss rate: 0.86%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 08:19:27  
End at: 2018-06-07 08:19:57  
Local clock offset: -0.02 ms  
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-06-07 10:33:47  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 554.85 Mbit/s  
  95th percentile per-packet one-way delay: 175.729 ms  
  Loss rate: 1.62%  
-- Flow 1:  
  Average throughput: 515.09 Mbit/s  
  95th percentile per-packet one-way delay: 175.903 ms  
  Loss rate: 1.66%  
-- Flow 2:  
  Average throughput: 30.04 Mbit/s  
  95th percentile per-packet one-way delay: 174.350 ms  
  Loss rate: 1.11%  
-- Flow 3:  
  Average throughput: 60.07 Mbit/s  
  95th percentile per-packet one-way delay: 165.928 ms  
  Loss rate: 1.09%
Run 9: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 523.78 Mbps)
- **Flow 1 egress** (mean 515.09 Mbps)
- **Flow 2 ingress** (mean 39.38 Mbps)
- **Flow 2 egress** (mean 30.04 Mbps)
- **Flow 3 ingress** (mean 60.72 Mbps)
- **Flow 3 egress** (mean 60.07 Mbps)

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

- **Flow 1** (95th percentile 175.90 ms)
- **Flow 2** (95th percentile 174.35 ms)
- **Flow 3** (95th percentile 165.93 ms)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 08:42:40
End at: 2018-06-07 08:43:10
Local clock offset: 0.486 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 10:34:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 596.75 Mbit/s
95th percentile per-packet one-way delay: 190.173 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 521.86 Mbit/s
95th percentile per-packet one-way delay: 191.570 ms
Loss rate: 5.22%
-- Flow 2:
Average throughput: 111.66 Mbit/s
95th percentile per-packet one-way delay: 165.394 ms
Loss rate: 5.07%
-- Flow 3:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 168.146 ms
Loss rate: 3.39%
Run 10: Report of PCC-Allegro — Data Link

[Graphs showing throughput and round-trip time for different flows over time]
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 05:10:03
End at: 2018-06-07 05:10:33
Local clock offset: -0.051 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 10:37:34
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 384.07 Mbit/s
 95th percentile per-packet one-way delay: 312.838 ms
 Loss rate: 16.91%
-- Flow 1:
 Average throughput: 291.62 Mbit/s
 95th percentile per-packet one-way delay: 318.391 ms
 Loss rate: 20.37%
-- Flow 2:
 Average throughput: 134.33 Mbit/s
 95th percentile per-packet one-way delay: 205.009 ms
 Loss rate: 3.73%
-- Flow 3:
 Average throughput: 8.66 Mbit/s
 95th percentile per-packet one-way delay: 194.327 ms
 Loss rate: 2.82%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 05:33:16
End at: 2018-06-07 05:33:46
Local clock offset: 0.009 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 10:37:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 393.63 Mbit/s
  95th percentile per-packet one-way delay: 261.172 ms
  Loss rate: 4.83%
-- Flow 1:
  Average throughput: 248.02 Mbit/s
  95th percentile per-packet one-way delay: 248.338 ms
  Loss rate: 3.41%
-- Flow 2:
  Average throughput: 193.69 Mbit/s
  95th percentile per-packet one-way delay: 268.957 ms
  Loss rate: 8.01%
-- Flow 3:
  Average throughput: 50.99 Mbit/s
  95th percentile per-packet one-way delay: 50.732 ms
  Loss rate: 0.00%

146
Run 2: Report of PCC-Expr — Data Link

![Graph of Run 2 Report of PCC-Expr — Data Link]

Legend:
- Flow 1 ingress (mean 256.78 Mbit/s)
- Flow 1 egress (mean 248.02 Mbit/s)
- Flow 2 ingress (mean 210.55 Mbit/s)
- Flow 2 egress (mean 193.69 Mbit/s)
- Flow 3 ingress (mean 51.00 Mbit/s)
- Flow 3 egress (mean 50.99 Mbit/s)

![Graph of Run 2 Report of PCC-Expr — Data Link]

Legend:
- Flow 1 (95th percentile 248.34 ms)
- Flow 2 (95th percentile 268.96 ms)
- Flow 3 (95th percentile 50.73 ms)
Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 05:56:29
End at: 2018-06-07 05:56:59
Local clock offset: -0.293 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-07 10:38:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 360.63 Mbit/s
  95th percentile per-packet one-way delay: 245.088 ms
  Loss rate: 6.98%
-- Flow 1:
  Average throughput: 174.54 Mbit/s
  95th percentile per-packet one-way delay: 179.476 ms
  Loss rate: 1.22%
-- Flow 2:
  Average throughput: 257.29 Mbit/s
  95th percentile per-packet one-way delay: 330.609 ms
  Loss rate: 12.42%
-- Flow 3:
  Average throughput: 45.48 Mbit/s
  95th percentile per-packet one-way delay: 189.175 ms
  Loss rate: 4.06%
Run 3: Report of PCC-Expr — Data Link

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

Legend:
- Flow 1 ingress (mean 176.70 Mbit/s)
- Flow 1 egress (mean 174.54 Mbit/s)
- Flow 2 ingress (mean 293.80 Mbit/s)
- Flow 2 egress (mean 257.29 Mbit/s)
- Flow 3 ingress (mean 47.40 Mbit/s)
- Flow 3 egress (mean 45.48 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 179.48 ms)
- Flow 2 (95th percentile 330.61 ms)
- Flow 3 (95th percentile 189.18 ms)
Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 06:19:38
End at: 2018-06-07 06:20:08
Local clock offset: 0.088 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-07 10:40:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.67 Mbit/s
95th percentile per-packet one-way delay: 180.841 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 236.57 Mbit/s
95th percentile per-packet one-way delay: 181.815 ms
Loss rate: 4.02%
-- Flow 2:
Average throughput: 174.81 Mbit/s
95th percentile per-packet one-way delay: 186.719 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 200.16 Mbit/s
95th percentile per-packet one-way delay: 121.132 ms
Loss rate: 0.82%
Run 4: Report of PCC-Expr — Data Link

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

- **Flow 1** ingress (mean 246.48 Mbit/s)
- **Flow 1** egress (mean 236.57 Mbit/s)
- **Flow 2** ingress (mean 174.80 Mbit/s)
- **Flow 2** egress (mean 174.81 Mbit/s)
- **Flow 3** ingress (mean 201.81 Mbit/s)
- **Flow 3** egress (mean 200.16 Mbit/s)

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

- **Flow 1** (95th percentile 181.91 ms)
- **Flow 2** (95th percentile 186.72 ms)
- **Flow 3** (95th percentile 121.13 ms)
Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 06:42:45
End at: 2018-06-07 06:43:15
Local clock offset: -0.371 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-07 10:45:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 381.79 Mbit/s
  95th percentile per-packet one-way delay: 160.938 ms
  Loss rate: 1.47%
-- Flow 1:
  Average throughput: 243.32 Mbit/s
  95th percentile per-packet one-way delay: 93.187 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 163.35 Mbit/s
  95th percentile per-packet one-way delay: 256.948 ms
  Loss rate: 4.94%
-- Flow 3:
  Average throughput: 91.00 Mbit/s
  95th percentile per-packet one-way delay: 54.353 ms
  Loss rate: 0.00%
Run 5: Report of PCC-Expr — Data Link

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

Flow 1 ingress (mean 243.37 Mbit/s)
Flow 1 egress (mean 243.32 Mbit/s)
Flow 2 ingress (mean 171.83 Mbit/s)
Flow 2 egress (mean 163.35 Mbit/s)
Flow 3 ingress (mean 91.00 Mbit/s)
Flow 3 egress (mean 91.00 Mbit/s)

Flow 1 (95th percentile 93.19 ms)
Flow 2 (95th percentile 256.95 ms)
Flow 3 (95th percentile 54.35 ms)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 07:05:49
End at: 2018-06-07 07:06:19
Local clock offset: 0.006 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-07 10:48:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 443.68 Mbit/s
  95th percentile per-packet one-way delay: 204.287 ms
  Loss rate: 1.72%
-- Flow 1:
  Average throughput: 278.78 Mbit/s
  95th percentile per-packet one-way delay: 201.236 ms
  Loss rate: 2.15%
-- Flow 2:
  Average throughput: 203.63 Mbit/s
  95th percentile per-packet one-way delay: 223.077 ms
  Loss rate: 1.21%
-- Flow 3:
  Average throughput: 89.40 Mbit/s
  95th percentile per-packet one-way delay: 54.053 ms
  Loss rate: 0.00%
Run 6: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 284.90 Mbit/s)
- Flow 1 egress (mean 278.78 Mbit/s)
- Flow 2 ingress (mean 206.13 Mbit/s)
- Flow 2 egress (mean 203.63 Mbit/s)
- Flow 3 ingress (mean 89.41 Mbit/s)
- Flow 3 egress (mean 89.40 Mbit/s)

![Graphs showing one-way delay over time for different flows.]

- Flow 1 (95th percentile 201.24 ms)
- Flow 2 (95th percentile 221.08 ms)
- Flow 3 (95th percentile 54.05 ms)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 07:29:08
End at: 2018-06-07 07:29:38
Local clock offset: 0.391 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-06-07 10:48:25
# Datalink statistics
# Total of 3 flows:
-- Average throughput: 348.96 Mbit/s
-- 95th percentile per-packet one-way delay: 167.188 ms
-- Loss rate: 0.15%

-- Flow 1:
-- Average throughput: 211.98 Mbit/s
-- 95th percentile per-packet one-way delay: 168.098 ms
-- Loss rate: 0.09%

-- Flow 2:
-- Average throughput: 156.31 Mbit/s
-- 95th percentile per-packet one-way delay: 166.379 ms
-- Loss rate: 0.22%

-- Flow 3:
-- Average throughput: 100.08 Mbit/s
-- 95th percentile per-packet one-way delay: 164.700 ms
-- Loss rate: 0.28%
Run 7: Report of PCC-Expr — Data Link
Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 07:52:17
End at: 2018-06-07 07:52:47
Local clock offset: 0.048 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-07 10:50:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 445.24 Mbit/s
95th percentile per-packet one-way delay: 280.493 ms
Loss rate: 18.15%
-- Flow 1:
Average throughput: 331.74 Mbit/s
95th percentile per-packet one-way delay: 284.289 ms
Loss rate: 21.67%
-- Flow 2:
Average throughput: 167.74 Mbit/s
95th percentile per-packet one-way delay: 169.851 ms
Loss rate: 5.79%
-- Flow 3:
Average throughput: 6.14 Mbit/s
95th percentile per-packet one-way delay: 166.801 ms
Loss rate: 3.80%
Run 8: Report of PCC-Expr — Data Link

![Graphs showing throughput and per-packet one-way delay for different flows.](Image)

Flow 1 ingress (mean 425.02 Mbit/s)  
Flow 1 egress (mean 331.74 Mbit/s)  
Flow 2 ingress (mean 178.43 Mbit/s)  
Flow 2 egress (mean 167.74 Mbit/s)  
Flow 3 ingress (mean 6.43 Mbit/s)  
Flow 3 egress (mean 6.14 Mbit/s)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 08:15:22
End at: 2018-06-07 08:15:52
Local clock offset: -0.381 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-06-07 10:50:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.18 Mbit/s
95th percentile per-packet one-way delay: 205.892 ms
Loss rate: 3.21%
-- Flow 1:
Average throughput: 276.72 Mbit/s
95th percentile per-packet one-way delay: 211.387 ms
Loss rate: 4.44%
-- Flow 2:
Average throughput: 169.24 Mbit/s
95th percentile per-packet one-way delay: 136.981 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 102.81 Mbit/s
95th percentile per-packet one-way delay: 85.719 ms
Loss rate: 0.00%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 08:38:33
End at: 2018-06-07 08:39:03
Local clock offset: 0.049 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 441.28 Mbit/s
  95th percentile per-packet one-way delay: 176.799 ms
  Loss rate: 3.33%
-- Flow 1:
  Average throughput: 224.17 Mbit/s
  95th percentile per-packet one-way delay: 185.848 ms
  Loss rate: 1.97%
-- Flow 2:
  Average throughput: 190.36 Mbit/s
  95th percentile per-packet one-way delay: 162.324 ms
  Loss rate: 2.67%
-- Flow 3:
  Average throughput: 274.77 Mbit/s
  95th percentile per-packet one-way delay: 173.488 ms
  Loss rate: 7.36%
Run 10: Report of PCC-Expr — Data Link

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

- **Flow 1 Ingress** (mean 228.72 Mbit/s)
- **Flow 1 Egress** (mean 224.17 Mbit/s)
- **Flow 2 Ingress** (mean 195.58 Mbit/s)
- **Flow 2 Egress** (mean 190.36 Mbit/s)
- **Flow 3 Ingress** (mean 296.58 Mbit/s)
- **Flow 3 Egress** (mean 274.77 Mbit/s)

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

- **Flow 1** (95th percentile 185.85 ms)
- **Flow 2** (95th percentile 162.32 ms)
- **Flow 3** (95th percentile 173.49 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 05:12:52
End at: 2018-06-07 05:13:22
Local clock offset: -0.437 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.15 Mbit/s
95th percentile per-packet one-way delay: 50.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.028 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.23 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.56 Mbit/s
95th percentile per-packet one-way delay: 50.681 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 05:36:10
End at: 2018-06-07 05:36:40
Local clock offset: -0.367 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.61 Mbit/s
95th percentile per-packet one-way delay: 51.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.48 Mbit/s
95th percentile per-packet one-way delay: 51.153 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.57 Mbit/s
95th percentile per-packet one-way delay: 50.102 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 51.136 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet one-way delay for different flows over time.](image-url)
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 05:59:18
End at: 2018-06-07 05:59:48
Local clock offset: -0.28 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.72 Mbit/s
95th percentile per-packet one-way delay: 51.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.37 Mbit/s
95th percentile per-packet one-way delay: 51.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 29.20 Mbit/s
95th percentile per-packet one-way delay: 50.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 51.353 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 41.37 Mbit/s)
- Flow 1 egress (mean 41.37 Mbit/s)
- Flow 2 ingress (mean 29.20 Mbit/s)
- Flow 2 egress (mean 29.20 Mbit/s)
- Flow 3 ingress (mean 21.23 Mbit/s)
- Flow 3 egress (mean 21.23 Mbit/s)

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

- Flow 1 (95th percentile 51.09 ms)
- Flow 2 (95th percentile 50.73 ms)
- Flow 3 (95th percentile 51.35 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 06:22:34
End at: 2018-06-07 06:23:04
Local clock offset: -0.335 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 51.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.57 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.53 Mbit/s
95th percentile per-packet one-way delay: 51.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 49.57 Mbps)
  - Flow 2 ingress (mean 26.54 Mbps)
  - Flow 3 ingress (mean 16.49 Mbps)
  - Flow 1 egress (mean 49.57 Mbps)
  - Flow 2 egress (mean 26.53 Mbps)
  - Flow 3 egress (mean 16.49 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 51.14 ms)
  - Flow 2 (95th percentile 51.04 ms)
  - Flow 3 (95th percentile 50.74 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-07 06:45:38
End at: 2018-06-07 06:46:08
Local clock offset: 0.022 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.02 Mbit/s
95th percentile per-packet one-way delay: 50.714 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 50.620 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 28.72 Mbit/s
95th percentile per-packet one-way delay: 50.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.16 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 07:08:47
End at: 2018-06-07 07:09:17
Local clock offset: -0.003 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.00 Mbit/s
95th percentile per-packet one-way delay: 50.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 49.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 50.351 ms
Loss rate: 0.00%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 07:31:55
End at: 2018-06-07 07:32:25
Local clock offset: 0.008 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 72.35 Mbit/s
  95th percentile per-packet one-way delay: 50.489 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 44.56 Mbit/s
  95th percentile per-packet one-way delay: 50.505 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 34.24 Mbit/s
  95th percentile per-packet one-way delay: 50.471 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 15.43 Mbit/s
  95th percentile per-packet one-way delay: 49.820 ms
  Loss rate: 0.00%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 07:55:09
End at: 2018-06-07 07:55:39
Local clock offset: 0.009 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.46 Mbit/s
95th percentile per-packet one-way delay: 50.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 50.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 50.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.00%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 08:18:15
End at: 2018-06-07 08:18:45
Local clock offset: -0.001 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.38 Mbit/s
95th percentile per-packet one-way delay: 50.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 50.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 50.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 50.552 ms
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 08:41:29
End at: 2018-06-07 08:41:59
Local clock offset: 0.05 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.35 Mbit/s
95th percentile per-packet one-way delay: 50.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 49.567 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 50.901 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 50.905 ms
Loss rate: 0.00%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-06-07 05:08:55
End at: 2018-06-07 05:09:25
Local clock offset: -0.103 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 10:51:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.888 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.871 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.549 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-06-07 05:32:08
End at: 2018-06-07 05:32:38
Local clock offset: 0.06 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 50.789 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.499 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.821 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.427 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graphs showing network performance metrics over time]
Run 3: Statistics of SCReAM

Start at: 2018-06-07 05:55:21
End at: 2018-06-07 05:55:51
Local clock offset: 0.093 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.073 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.375 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.740 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-06-07 06:18:30
End at: 2018-06-07 06:19:00
Local clock offset: 0.063 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.887 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.990 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

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

- **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 Delay (ms):**
  - Flow 1 (95th percentile 50.89 ms)
  - Flow 2 (95th percentile 50.99 ms)
  - Flow 3 (95th percentile 50.76 ms)
Run 5: Statistics of SCReAM

Start at: 2018-06-07 06:41:38
End at: 2018-06-07 06:42:08
Local clock offset: -0.332 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 51.185 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.100 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.132 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.242 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-06-07 07:04:41
End at: 2018-06-07 07:05:11
Local clock offset: 0.383 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 50.400 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 49.408 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.440 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.054 ms
  Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-06-07 07:28:00
End at: 2018-06-07 07:28:30
Local clock offset: 0.019 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.840 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-06-07 07:51:09
End at: 2018-06-07 07:51:39
Local clock offset: 0.001 ms
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.080 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.566 ms
Loss rate: 0.00%
Run 9: Statistics of SCReAM

Start at: 2018-06-07 08:14:15
End at: 2018-06-07 08:14:45
Local clock offset: -0.016 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.002 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

![Graph 1: Throughput](image)

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: Packet Loss](image)

Flow 1 (95th percentile 50.86 ms) — Flow 2 (95th percentile 50.47 ms) — Flow 3 (95th percentile 50.00 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-07 08:37:25
End at: 2018-06-07 08:37:55
Local clock offset: 0.452 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 50.500 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.520 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 49.575 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.421 ms
  Loss rate: 0.00%
Run 1: Statistics of Sprout

Start at: 2018-06-07 05:05:46
End at: 2018-06-07 05:06:16
Local clock offset: -0.433 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 51.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 51.859 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 51.939 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 51.916 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-06-07 05:29:00
End at: 2018-06-07 05:29:30
Local clock offset: -0.018 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 51.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 51.210 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 50.991 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-06-07 05:52:11
End at: 2018-06-07 05:52:41
Local clock offset: 0.087 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 51.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 51.535 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 51.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 51.636 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

Graphs showing throughput and packet loss over time for different flows.
Run 4: Statistics of Sprout

Start at: 2018-06-07 06:15:20
End at: 2018-06-07 06:15:50
Local clock offset: 0.033 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.09 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 51.033 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 51.044 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 51.182 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-06-07 06:38:26
End at: 2018-06-07 06:38:56
Local clock offset: 0.029 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.74 Mbit/s
95th percentile per-packet one-way delay: 51.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 51.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 50.647 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 6.40 Mbps)
  - Flow 1 egress (mean 6.40 Mbps)
  - Flow 2 ingress (mean 7.02 Mbps)
  - Flow 2 egress (mean 7.02 Mbps)
  - Flow 3 ingress (mean 8.10 Mbps)
  - Flow 3 egress (mean 8.09 Mbps)

- **Per packet one-way delay (ms):**
  - Flow 1 (95th percentile 51.51 ms)
  - Flow 2 (95th percentile 51.55 ms)
  - Flow 3 (95th percentile 50.65 ms)
Run 6: Statistics of Sprout

Start at: 2018-06-07 07:01:33
End at: 2018-06-07 07:02:03
Local clock offset: -0.011 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 12.26 Mbit/s
  95th percentile per-packet one-way delay: 51.373 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 6.13 Mbit/s
  95th percentile per-packet one-way delay: 51.324 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 6.72 Mbit/s
  95th percentile per-packet one-way delay: 51.470 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 5.03 Mbit/s
  95th percentile per-packet one-way delay: 51.225 ms
  Loss rate: 0.12%
Run 6: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 6.13 Mbit/s)
- Flow 1 egress (mean 6.13 Mbit/s)
- Flow 2 ingress (mean 6.72 Mbit/s)
- Flow 2 egress (mean 6.72 Mbit/s)
- Flow 3 ingress (mean 5.03 Mbit/s)
- Flow 3 egress (mean 5.03 Mbit/s)

[Additional graphs showing per-packet one-way delay]
Run 7: Statistics of Sprout

Start at: 2018-06-07 07:24:49
End at: 2018-06-07 07:25:19
Local clock offset: 0.021 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.39 Mbit/s
95th percentile per-packet one-way delay: 51.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 51.168 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 51.168 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 50.939 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-06-07 07:47:59
End at: 2018-06-07 07:48:29
Local clock offset: 0.036 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.06 Mbit/s
  95th percentile per-packet one-way delay: 51.248 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 6.05 Mbit/s
  95th percentile per-packet one-way delay: 51.243 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.43 Mbit/s
  95th percentile per-packet one-way delay: 51.243 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 6.26 Mbit/s
  95th percentile per-packet one-way delay: 51.275 ms
  Loss rate: 0.00%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-06-07 08:11:06
End at: 2018-06-07 08:11:36
Local clock offset: 0.022 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.36 Mbit/s
  95th percentile per-packet one-way delay: 50.881 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.14 Mbit/s
  95th percentile per-packet one-way delay: 50.786 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.26 Mbit/s
  95th percentile per-packet one-way delay: 50.952 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.30 Mbit/s
  95th percentile per-packet one-way delay: 50.900 ms
  Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)
Run 10: Statistics of Sprout

Start at: 2018-06-07 08:34:11
End at: 2018-06-07 08:34:41
Local clock offset: 0.025 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 10:52:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 51.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.86 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 51.397 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 51.617 ms
Loss rate: 0.00%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 05:24:42
End at: 2018-06-07 05:25:12
Local clock offset: -0.072 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-07 10:58:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.56 Mbit/s
95th percentile per-packet one-way delay: 61.212 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 219.42 Mbit/s
95th percentile per-packet one-way delay: 54.686 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 193.32 Mbit/s
95th percentile per-packet one-way delay: 63.035 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.48 Mbit/s
95th percentile per-packet one-way delay: 73.765 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

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

Legend:
- Flow 1 ingress (mean 219.49 Mbit/s)
- Flow 1 egress (mean 219.42 Mbit/s)
- Flow 2 ingress (mean 193.32 Mbit/s)
- Flow 2 egress (mean 193.32 Mbit/s)
- Flow 3 ingress (mean 169.47 Mbit/s)
- Flow 3 egress (mean 169.48 Mbit/s)

Per-packet one way delay (ms):
- Flow 1 (95th percentile 54.69 ms)
- Flow 2 (95th percentile 63.03 ms)
- Flow 3 (95th percentile 73.77 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 05:48:01
End at: 2018-06-07 05:48:31
Local clock offset: 0.073 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-07 10:58:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.33 Mbit/s
95th percentile per-packet one-way delay: 62.603 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 167.51 Mbit/s
95th percentile per-packet one-way delay: 58.490 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 176.79 Mbit/s
95th percentile per-packet one-way delay: 57.057 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 156.78 Mbit/s
95th percentile per-packet one-way delay: 73.072 ms
Loss rate: 0.01%
Run 2: Report of TaoVA-100x — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 06:11:02
End at: 2018-06-07 06:11:32
Local clock offset: 0.056 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-07 10:58:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.10 Mbit/s
95th percentile per-packet one-way delay: 59.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.12 Mbit/s
95th percentile per-packet one-way delay: 56.653 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.72 Mbit/s
95th percentile per-packet one-way delay: 61.688 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 185.33 Mbit/s
95th percentile per-packet one-way delay: 61.906 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 06:34:19
End at: 2018-06-07 06:34:49
Local clock offset: 0.075 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 10:58:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 315.10 Mbit/s
  95th percentile per-packet one-way delay: 65.137 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 137.92 Mbit/s
  95th percentile per-packet one-way delay: 56.364 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 178.97 Mbit/s
  95th percentile per-packet one-way delay: 69.762 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 174.86 Mbit/s
  95th percentile per-packet one-way delay: 70.405 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

![Graph of throughput over time with different flow types and their ingress and egress rates.](image1)

![Graph of per-packet one-way delay over time with different flow types and their 95th percentile delays.](image2)
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 06:57:22
End at: 2018-06-07 06:57:52
Local clock offset: -0.007 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-07 10:58:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.06 Mbit/s
95th percentile per-packet one-way delay: 62.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.74 Mbit/s
95th percentile per-packet one-way delay: 60.190 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 185.34 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.27 Mbit/s
95th percentile per-packet one-way delay: 69.810 ms
Loss rate: 0.00%
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 07:20:25
End at: 2018-06-07 07:20:55
Local clock offset: 0.037 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-07 11:02:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.51 Mbit/s
95th percentile per-packet one-way delay: 53.386 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 212.94 Mbit/s
95th percentile per-packet one-way delay: 52.814 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 211.58 Mbit/s
95th percentile per-packet one-way delay: 53.844 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.32 Mbit/s
95th percentile per-packet one-way delay: 54.112 ms
Loss rate: 0.07%
Run 6: Report of TaoVA-100x — Data Link

![Graph showing network throughput and latency](image1.png)

- Flow 1 ingress (mean 212.04 Mbit/s)
- Flow 1 egress (mean 212.04 Mbit/s)
- Flow 2 ingress (mean 211.58 Mbit/s)
- Flow 2 egress (mean 211.58 Mbit/s)
- Flow 3 ingress (mean 122.39 Mbit/s)
- Flow 3 egress (mean 122.32 Mbit/s)

![Graph showing packet delay](image2.png)

- Flow 1 (95th percentile 52.81 ms)
- Flow 2 (95th percentile 53.84 ms)
- Flow 3 (95th percentile 54.11 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 07:43:40
End at: 2018-06-07 07:44:10
Local clock offset: 0.024 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-07 11:03:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.26 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.41 Mbit/s
95th percentile per-packet one-way delay: 53.810 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 207.57 Mbit/s
95th percentile per-packet one-way delay: 54.400 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 224.96 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link

[Graph showing network traffic over time with throughput in Mbit/s and per-packet one-way delay in ms for different flows.

Legend:
- Flow 1 ingress (mean 175.41 Mbit/s)
- Flow 1 egress (mean 175.41 Mbit/s)
- Flow 2 ingress (mean 207.54 Mbit/s)
- Flow 2 egress (mean 207.57 Mbit/s)
- Flow 3 ingress (mean 224.92 Mbit/s)
- Flow 3 egress (mean 224.96 Mbit/s)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 08:06:58
End at: 2018-06-07 08:07:28
Local clock offset: -0.005 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-07 11:03:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.24 Mbit/s
95th percentile per-packet one-way delay: 56.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.84 Mbit/s
95th percentile per-packet one-way delay: 50.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 192.28 Mbit/s
95th percentile per-packet one-way delay: 54.726 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 200.08 Mbit/s
95th percentile per-packet one-way delay: 63.056 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 08:30:01
End at: 2018-06-07 08:30:31
Local clock offset: 0.06 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.58 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 204.10 Mbit/s
95th percentile per-packet one-way delay: 59.136 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.74 Mbit/s
95th percentile per-packet one-way delay: 73.992 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 27.17 Mbit/s
95th percentile per-packet one-way delay: 54.859 ms
Loss rate: 0.00%
Run 9: Report of TaoVA-100x — Data Link

![Graph of throughput](image1)

![Graph of per-packet one-way delay](image2)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 08:53:15
End at: 2018-06-07 08:53:45
Local clock offset: 0.399 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.89 Mbit/s
95th percentile per-packet one-way delay: 64.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.28 Mbit/s
95th percentile per-packet one-way delay: 54.405 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 126.19 Mbit/s
95th percentile per-packet one-way delay: 64.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.91 Mbit/s
95th percentile per-packet one-way delay: 71.777 ms
Loss rate: 0.00%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 05:20:09
End at: 2018-06-07 05:20:39
Local clock offset: -0.073 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.54 Mbit/s
95th percentile per-packet one-way delay: 62.832 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 112.56 Mbit/s
95th percentile per-packet one-way delay: 55.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.17 Mbit/s
95th percentile per-packet one-way delay: 55.906 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 216.39 Mbit/s
95th percentile per-packet one-way delay: 68.321 ms
Loss rate: 0.03%
Run 1: Report of TCP Vegas — Data Link

![Graph of throughput and per-packet one-way delay over time for different flows.]
Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 05:43:27
End at: 2018-06-07 05:43:57
Local clock offset: -0.299 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 314.87 Mbit/s
95th percentile per-packet one-way delay: 63.571 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 225.61 Mbit/s
95th percentile per-packet one-way delay: 64.717 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 131.50 Mbit/s
95th percentile per-packet one-way delay: 57.632 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 55.487 ms
Loss rate: 0.24%
Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 06:06:32
End at: 2018-06-07 06:07:02
Local clock offset: -0.311 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.52 Mbit/s
95th percentile per-packet one-way delay: 61.472 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.42 Mbit/s
95th percentile per-packet one-way delay: 56.826 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.23 Mbit/s
95th percentile per-packet one-way delay: 56.802 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.47 Mbit/s
95th percentile per-packet one-way delay: 64.058 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

![Graph 1: Throughput vs Time](chart1.png)
- `Flow 1 ingress (mean 131.42 Mbit/s)`
- `Flow 1 egress (mean 131.42 Mbit/s)`
- `Flow 2 ingress (mean 22.23 Mbit/s)`
- `Flow 2 egress (mean 22.23 Mbit/s)`
- `Flow 3 ingress (mean 217.50 Mbit/s)`
- `Flow 3 egress (mean 217.47 Mbit/s)`

![Graph 2: Per packet one way delay vs Time](chart2.png)
- `Flow 1 (95th percentile 56.83 ms)`
- `Flow 2 (95th percentile 56.80 ms)`
- `Flow 3 (95th percentile 64.06 ms)`
Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 06:29:54
End at: 2018-06-07 06:30:24
Local clock offset: 0.027 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 193.16 Mbit/s
95th percentile per-packet one-way delay: 61.434 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.68 Mbit/s
95th percentile per-packet one-way delay: 55.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.32 Mbit/s
95th percentile per-packet one-way delay: 62.123 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 55.917 ms
Loss rate: 0.06%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 06:52:57
End at: 2018-06-07 06:53:27
Local clock offset: 0.343 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 60.681 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 23.30 Mbit/s
95th percentile per-packet one-way delay: 52.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 211.80 Mbit/s
95th percentile per-packet one-way delay: 60.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 53.021 ms
Loss rate: 0.17%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 07:15:59
End at: 2018-06-07 07:16:29
Local clock offset: -0.355 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-07 11:06:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 175.32 Mbit/s
95th percentile per-packet one-way delay: 52.651 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 69.13 Mbit/s
95th percentile per-packet one-way delay: 52.431 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 137.52 Mbit/s
95th percentile per-packet one-way delay: 52.835 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 51.842 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link

---

---
Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 07:39:02
End at: 2018-06-07 07:39:32
Local clock offset: -0.336 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-07 11:08:53
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 60.276 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.87 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 228.34 Mbit/s
95th percentile per-packet one-way delay: 61.106 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 220.73 Mbit/s
95th percentile per-packet one-way delay: 61.292 ms
Loss rate: 0.00%
Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 08:02:25
End at: 2018-06-07 08:02:55
Local clock offset: -0.013 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-06-07 11:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.69 Mbit/s
95th percentile per-packet one-way delay: 60.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.67 Mbit/s
95th percentile per-packet one-way delay: 58.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 61.281 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 53.476 ms
Loss rate: 0.12%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 08:25:31
End at: 2018-06-07 08:26:01
Local clock offset: 0.046 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-07 11:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.20 Mbit/s
95th percentile per-packet one-way delay: 59.895 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 120.52 Mbit/s
95th percentile per-packet one-way delay: 59.341 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 55.467 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 216.55 Mbit/s
95th percentile per-packet one-way delay: 61.731 ms
Loss rate: 0.00%
Run 9: Report of TCP Vegas — Data Link

![Throughput Graph](image)

![Ping Graph](image)

---

261
Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 08:48:50
End at: 2018-06-07 08:49:20
Local clock offset: 0.064 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 11:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 152.00 Mbit/s
95th percentile per-packet one-way delay: 51.650 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.56 Mbit/s
95th percentile per-packet one-way delay: 52.452 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 143.32 Mbit/s
95th percentile per-packet one-way delay: 51.519 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 51.061 ms
Loss rate: 0.10%
Run 10: Report of TCP Vegas — Data Link

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

![Graph 2: Per-packet one way delay vs Time](image2.png)
Run 1: Statistics of Verus

Start at: 2018-06-07 05:17:01
End at: 2018-06-07 05:17:31
Local clock offset: -0.069 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 11:11:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 375.28 Mbit/s
95th percentile per-packet one-way delay: 130.880 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 230.35 Mbit/s
95th percentile per-packet one-way delay: 117.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 156.83 Mbit/s
95th percentile per-packet one-way delay: 136.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 141.29 Mbit/s
95th percentile per-packet one-way delay: 148.495 ms
Loss rate: 0.44%
Run 1: Report of Verus — Data Link

**Graph 1:**
Throughput (Mbps) over time (s)
- **Flow 1 ingress** (mean 230.44 Mbps)
- **Flow 1 egress** (mean 230.35 Mbps)
- **Flow 2 ingress** (mean 148.97 Mbps)
- **Flow 2 egress** (mean 156.83 Mbps)
- **Flow 3 ingress** (mean 142.87 Mbps)
- **Flow 3 egress** (mean 141.29 Mbps)

**Graph 2:**
Per-packet one-way delay (ms) over time (s)
- **Flow 1** (95th percentile 117.83 ms)
- **Flow 2** (95th percentile 136.26 ms)
- **Flow 3** (95th percentile 148.50 ms)
Run 2: Statistics of Verus

Start at: 2018-06-07 05:40:25
End at: 2018-06-07 05:40:55
Local clock offset: 0.03 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 11:11:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 374.38 Mbit/s
95th percentile per-packet one-way delay: 125.997 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 208.40 Mbit/s
95th percentile per-packet one-way delay: 126.219 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 192.48 Mbit/s
95th percentile per-packet one-way delay: 122.705 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 128.73 Mbit/s
95th percentile per-packet one-way delay: 159.815 ms
Loss rate: 0.03%
Run 2: Report of Verus — Data Link

![Throughput vs Time](image1)

- Flow 1 ingress (mean 208.45 Mbit/s)
- Flow 1 egress (mean 208.40 Mbit/s)
- Flow 2 ingress (mean 192.67 Mbit/s)
- Flow 2 egress (mean 192.48 Mbit/s)
- Flow 3 ingress (mean 115.75 Mbit/s)
- Flow 3 egress (mean 128.73 Mbit/s)

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

- Flow 1 (95th percentile 126.22 ms)
- Flow 2 (95th percentile 122.70 ms)
- Flow 3 (95th percentile 159.01 ms)
Run 3: Statistics of Verus

Start at: 2018-06-07 06:03:32
End at: 2018-06-07 06:04:02
Local clock offset: 0.068 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-07 11:12:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.71 Mbit/s
95th percentile per-packet one-way delay: 139.719 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 204.06 Mbit/s
95th percentile per-packet one-way delay: 132.330 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 174.73 Mbit/s
95th percentile per-packet one-way delay: 149.238 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 122.78 Mbit/s
95th percentile per-packet one-way delay: 142.461 ms
Loss rate: 0.60%
Run 3: Report of Verus — Data Link

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

**Throughput (Mbps):**
- **Flow 1 ingress (mean 205.04 Mbps)**
- **Flow 1 egress (mean 204.06 Mbps)**
- **Flow 2 ingress (mean 175.66 Mbps)**
- **Flow 2 egress (mean 174.73 Mbps)**
- **Flow 3 ingress (mean 123.29 Mbps)**
- **Flow 3 egress (mean 122.78 Mbps)**

**Per-packet one-way delay (ms):**
- **Flow 1 (95th percentile 132.33 ms)**
- **Flow 2 (95th percentile 149.24 ms)**
- **Flow 3 (95th percentile 142.46 ms)**
Run 4: Statistics of Verus

Start at: 2018-06-07 06:26:49
End at: 2018-06-07 06:27:19
Local clock offset: 0.019 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 11:13:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 363.33 Mbit/s
  95th percentile per-packet one-way delay: 117.374 ms
  Loss rate: 0.62%
-- Flow 1:
  Average throughput: 203.68 Mbit/s
  95th percentile per-packet one-way delay: 121.054 ms
  Loss rate: 1.09%
-- Flow 2:
  Average throughput: 182.46 Mbit/s
  95th percentile per-packet one-way delay: 109.160 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 129.49 Mbit/s
  95th percentile per-packet one-way delay: 128.068 ms
  Loss rate: 0.00%
Run 4: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ing = 206.00 Mbps
  - Flow 1 egress = 203.68 Mbps
  - Flow 2 ing = 182.59 Mbps
  - Flow 2 egress = 182.46 Mbps
  - Flow 3 ing = 116.47 Mbps
  - Flow 3 egress = 129.49 Mbps

- **Delay (ms):**
  - Flow 1 95th percentile = 121.05 ms
  - Flow 2 95th percentile = 109.16 ms
  - Flow 3 95th percentile = 128.07 ms
Run 5: Statistics of Verus

Start at: 2018-06-07 06:49:53
End at: 2018-06-07 06:50:23
Local clock offset: 0.384 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 11:13:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.19 Mbit/s
95th percentile per-packet one-way delay: 141.437 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 221.37 Mbit/s
95th percentile per-packet one-way delay: 112.192 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 98.45 Mbit/s
95th percentile per-packet one-way delay: 203.028 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 169.81 Mbit/s
95th percentile per-packet one-way delay: 156.913 ms
Loss rate: 0.40%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

Start at: 2018-06-07 07:13:02
End at: 2018-06-07 07:13:32
Local clock offset: -0.02 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-07 11:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.87 Mbit/s
95th percentile per-packet one-way delay: 129.743 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 198.15 Mbit/s
95th percentile per-packet one-way delay: 121.712 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 139.91 Mbit/s
95th percentile per-packet one-way delay: 131.680 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 151.05 Mbit/s
95th percentile per-packet one-way delay: 251.541 ms
Loss rate: 1.46%
Run 7: Statistics of Verus

Start at: 2018-06-07 07:36:10
End at: 2018-06-07 07:36:40
Local clock offset: 0.027 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-07 11:14:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 314.52 Mbit/s
95th percentile per-packet one-way delay: 149.474 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 184.06 Mbit/s
95th percentile per-packet one-way delay: 204.813 ms
Loss rate: 3.35%
-- Flow 2:
Average throughput: 135.88 Mbit/s
95th percentile per-packet one-way delay: 137.865 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 123.59 Mbit/s
95th percentile per-packet one-way delay: 140.047 ms
Loss rate: 0.00%
Run 8: Statistics of Verus

Start at: 2018-06-07 07:59:23
End at: 2018-06-07 07:59:53
Local clock offset: -0.333 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-06-07 11:14:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 362.06 Mbit/s
95th percentile per-packet one-way delay: 132.599 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 199.79 Mbit/s
95th percentile per-packet one-way delay: 148.082 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 171.92 Mbit/s
95th percentile per-packet one-way delay: 118.179 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 146.22 Mbit/s
95th percentile per-packet one-way delay: 153.547 ms
Loss rate: 0.74%
Run 8: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 202.63 Mbit/s)
- Flow 1 egress (mean 199.79 Mbit/s)
- Flow 2 ingress (mean 175.99 Mbit/s)
- Flow 2 egress (mean 171.92 Mbit/s)
- Flow 3 ingress (mean 149.04 Mbit/s)
- Flow 3 egress (mean 144.22 Mbit/s)
Run 9: Statistics of Verus

End at: 2018-06-07 08:22:58
Local clock offset: 0.053 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-06-07 11:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.56 Mbit/s
95th percentile per-packet one-way delay: 215.173 ms
Loss rate: 4.40%
-- Flow 1:
Average throughput: 197.67 Mbit/s
95th percentile per-packet one-way delay: 145.173 ms
Loss rate: 2.29%
-- Flow 2:
Average throughput: 158.45 Mbit/s
95th percentile per-packet one-way delay: 190.751 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 160.38 Mbit/s
95th percentile per-packet one-way delay: 292.825 ms
Loss rate: 13.63%
Run 9: Report of Verus — Data Link
Run 10: Statistics of Verus

Start at: 2018-06-07 08:45:45
End at: 2018-06-07 08:46:15
Local clock offset: 0.04 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-07 11:17:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.29 Mbit/s
95th percentile per-packet one-way delay: 129.358 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 225.15 Mbit/s
95th percentile per-packet one-way delay: 127.221 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 137.75 Mbit/s
95th percentile per-packet one-way delay: 117.104 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 122.25 Mbit/s
95th percentile per-packet one-way delay: 205.645 ms
Loss rate: 0.83%
Run 10: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 225.37 Mbps)  Flow 1 egress (mean 225.15 Mbps)
Flow 2 ingress (mean 137.79 Mbps)  Flow 2 egress (mean 137.75 Mbps)
Flow 3 ingress (mean 123.28 Mbps)  Flow 3 egress (mean 122.25 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 127.22 ms)  Flow 2 (95th percentile 117.10 ms)  Flow 3 (95th percentile 205.65 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 05:21:30
End at: 2018-06-07 05:22:00
Local clock offset: -0.067 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-07 11:21:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 515.56 Mbit/s
  95th percentile per-packet one-way delay: 164.273 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 324.89 Mbit/s
  95th percentile per-packet one-way delay: 186.750 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 251.67 Mbit/s
  95th percentile per-packet one-way delay: 79.715 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 70.00 Mbit/s
  95th percentile per-packet one-way delay: 50.955 ms
  Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 05:44:50
End at: 2018-06-07 05:45:20
Local clock offset: 0.087 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-07 11:21:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 499.99 Mbit/s
95th percentile per-packet one-way delay: 96.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 300.60 Mbit/s
95th percentile per-packet one-way delay: 94.707 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.42 Mbit/s
95th percentile per-packet one-way delay: 110.954 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 204.43 Mbit/s
95th percentile per-packet one-way delay: 62.697 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 06:07:51
End at: 2018-06-07 06:08:21
Local clock offset: 0.085 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-07 11:22:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.09 Mbit/s
95th percentile per-packet one-way delay: 66.818 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 302.96 Mbit/s
95th percentile per-packet one-way delay: 134.583 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 274.50 Mbit/s
95th percentile per-packet one-way delay: 54.877 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.78 Mbit/s
95th percentile per-packet one-way delay: 51.656 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 06:31:12
End at: 2018-06-07 06:31:42
Local clock offset: 0.027 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-07 11:22:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 445.88 Mbit/s
95th percentile per-packet one-way delay: 184.223 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 228.27 Mbit/s
95th percentile per-packet one-way delay: 61.243 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 281.80 Mbit/s
95th percentile per-packet one-way delay: 198.410 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 51.302 ms
Loss rate: 0.01%
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 06:54:14
End at: 2018-06-07 06:54:44
Local clock offset: 0.361 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-07 11:22:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 460.34 Mbit/s
95th percentile per-packet one-way delay: 77.721 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 298.89 Mbit/s
95th percentile per-packet one-way delay: 105.628 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 225.91 Mbit/s
95th percentile per-packet one-way delay: 54.009 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.99 Mbit/s
95th percentile per-packet one-way delay: 49.749 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress: 299.24 Mbps
- Flow 1 egress: 298.89 Mbps
- Flow 2 ingress: 225.90 Mbps
- Flow 2 egress: 225.91 Mbps
- Flow 3 ingress: 33.99 Mbps
- Flow 3 egress: 33.99 Mbps

**Per-packet one-way delay (ms)**
- Flow 1: 105.63 ms
- Flow 2: 54.01 ms
- Flow 3: 49.75 ms
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 07:17:16
End at: 2018-06-07 07:17:46
Local clock offset: -0.006 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-07 11:22:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 471.68 Mbit/s
  95th percentile per-packet one-way delay: 144.246 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 301.89 Mbit/s
  95th percentile per-packet one-way delay: 180.598 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 229.01 Mbit/s
  95th percentile per-packet one-way delay: 54.735 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 53.03 Mbit/s
  95th percentile per-packet one-way delay: 51.225 ms
  Loss rate: 0.00%
Run 6: Report of PCC-Vivace — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 393.45 Mbit/s)
- Flow 1 egress (mean 301.89 Mbit/s)
- Flow 2 ingress (mean 228.99 Mbit/s)
- Flow 2 egress (mean 229.01 Mbit/s)
- Flow 3 ingress (mean 53.04 Mbit/s)
- Flow 3 egress (mean 53.03 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 180.60 ms)
- Flow 2 (95th percentile 54.73 ms)
- Flow 3 (95th percentile 51.23 ms)

295
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 07:40:27
End at: 2018-06-07 07:40:57
Local clock offset: 0.004 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-07 11:24:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 544.58 Mbit/s
95th percentile per-packet one-way delay: 101.855 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 333.91 Mbit/s
95th percentile per-packet one-way delay: 146.499 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 297.88 Mbit/s
95th percentile per-packet one-way delay: 56.792 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 38.22 Mbit/s
95th percentile per-packet one-way delay: 49.140 ms
Loss rate: 0.06%
Run 7: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 336.23 Mbit/s)
- Flow 1 egress (mean 333.91 Mbit/s)
- Flow 2 ingress (mean 298.11 Mbit/s)
- Flow 2 egress (mean 297.88 Mbit/s)
- Flow 3 ingress (mean 38.24 Mbit/s)
- Flow 3 egress (mean 38.22 Mbit/s)

![Graph showing packet delay for different flows.]

- Flow 1 (95th percentile 146.50 ms)
- Flow 2 (95th percentile 56.79 ms)
- Flow 3 (95th percentile 49.14 ms)
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 08:03:48
End at: 2018-06-07 08:04:18
Local clock offset: -0.031 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-07 11:24:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 478.09 Mbit/s
  95th percentile per-packet one-way delay: 84.206 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 270.71 Mbit/s
  95th percentile per-packet one-way delay: 58.255 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 275.04 Mbit/s
  95th percentile per-packet one-way delay: 105.267 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 74.37 Mbit/s
  95th percentile per-packet one-way delay: 51.366 ms
  Loss rate: 0.01%
Run 8: Report of PCC-Vivace — Data Link
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 08:26:51
End at: 2018-06-07 08:27:21
Local clock offset: 0.05 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-07 11:25:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 497.77 Mbit/s
95th percentile per-packet one-way delay: 66.231 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 322.64 Mbit/s
95th percentile per-packet one-way delay: 61.306 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 241.86 Mbit/s
95th percentile per-packet one-way delay: 91.474 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 43.33 Mbit/s
95th percentile per-packet one-way delay: 50.914 ms
Loss rate: 0.00%
Run 9: Report of PCC-Vivace — Data Link
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 08:50:06
End at: 2018-06-07 08:50:36
Local clock offset: 0.076 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-07 11:25:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.18 Mbit/s
95th percentile per-packet one-way delay: 168.112 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 299.28 Mbit/s
95th percentile per-packet one-way delay: 193.494 ms
Loss rate: 1.86%
-- Flow 2:
Average throughput: 233.46 Mbit/s
95th percentile per-packet one-way delay: 55.191 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.42 Mbit/s
95th percentile per-packet one-way delay: 51.139 ms
Loss rate: 0.00%
Run 10: Report of PCC-Vivace — Data Link

![Throughput Graph](image1)

<table>
<thead>
<tr>
<th>Flow</th>
<th>Ingress (mean)</th>
<th>Egress (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 1</td>
<td>394.97 Mbit/s</td>
<td>299.28 Mbit/s</td>
</tr>
<tr>
<td>Flow 2</td>
<td>233.47 Mbit/s</td>
<td>233.46 Mbit/s</td>
</tr>
<tr>
<td>Flow 3</td>
<td>89.42 Mbit/s</td>
<td>89.42 Mbit/s</td>
</tr>
</tbody>
</table>

![Per-packet Loss Graph](image2)

- Flow 1 (95th percentile 193.49 ms)
- Flow 2 (95th percentile 55.19 ms)
- Flow 3 (95th percentile 51.14 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 05:03:14
End at: 2018-06-07 05:03:44
Local clock offset: -0.051 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-06-07 11:25:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.31 Mbit/s
  95th percentile per-packet one-way delay: 50.851 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 2.25 Mbit/s
  95th percentile per-packet one-way delay: 50.864 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.53 Mbit/s
  95th percentile per-packet one-way delay: 50.824 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 50.698 ms
  Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-06-07 05:26:28
End at: 2018-06-07 05:26:58
Local clock offset: -0.028 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-07 11:25:17
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 3.95 Mbit/s
   95th percentile per-packet one-way delay: 50.907 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 2.11 Mbit/s
   95th percentile per-packet one-way delay: 50.912 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 1.32 Mbit/s
   95th percentile per-packet one-way delay: 50.884 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 0.54 Mbit/s
   95th percentile per-packet one-way delay: 50.876 ms
   Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

![Graph showing per packet round trip time (ms) over time for different flows.]

Flow 1 ingress (mean 2.11 Mbit/s), Flow 1 egress (mean 2.11 Mbit/s),
Flow 2 ingress (mean 1.32 Mbit/s), Flow 2 egress (mean 1.32 Mbit/s),
Flow 3 ingress (mean 0.54 Mbit/s), Flow 3 egress (mean 0.54 Mbit/s).

Flow 1 (95th percentile 50.91 ms), Flow 2 (95th percentile 50.88 ms),
Flow 3 (95th percentile 50.88 ms).
Run 3: Statistics of WebRTC media

Start at: 2018-06-07 05:49:40
End at: 2018-06-07 05:50:10
Local clock offset: 0.062 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 50.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.973 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 50.624 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 50.998 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

[Graph showing throughput and per-packet one way delay over time for different flows.]
Run 4: Statistics of WebRTC media

Start at: 2018-06-07 06:12:44  
End at: 2018-06-07 06:13:14  
Local clock offset: 0.029 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-07 11:25:18  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 3.92 Mbit/s  
95th percentile per-packet one-way delay: 50.921 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.05 Mbit/s  
95th percentile per-packet one-way delay: 50.910 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.36 Mbit/s  
95th percentile per-packet one-way delay: 50.943 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.54 Mbit/s  
95th percentile per-packet one-way delay: 50.682 ms  
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

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

Flow 1 ingress (mean 2.05 Mbit/s)
Flow 1 egress (mean 2.05 Mbit/s)
Flow 2 ingress (mean 1.36 Mbit/s)
Flow 2 egress (mean 1.36 Mbit/s)
Flow 3 ingress (mean 0.54 Mbit/s)
Flow 3 egress (mean 0.54 Mbit/s)
Run 5: Statistics of WebRTC media

Start at: 2018-06-07 06:35:58
End at: 2018-06-07 06:36:28
Local clock offset: 0.034 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.94 Mbit/s
  95th percentile per-packet one-way delay: 50.949 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.06 Mbit/s
  95th percentile per-packet one-way delay: 50.980 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.35 Mbit/s
  95th percentile per-packet one-way delay: 50.539 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 50.878 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

The graphs illustrate the throughput and per-packet one-way delay for different flows over time. The throughput graph shows the variation in data transfer rate, while the delay graph indicates the latency for packet delivery. Each flow is represented with distinct lines, allowing for easy comparison and analysis.
Run 6: Statistics of WebRTC media

Start at: 2018-06-07 06:59:02
End at: 2018-06-07 06:59:32
Local clock offset: 0.006 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 51.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 50.996 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.244 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 2.17 Mbit/s)
- Flow 1 egress (mean 2.17 Mbit/s)
- Flow 2 ingress (mean 1.40 Mbit/s)
- Flow 2 egress (mean 1.40 Mbit/s)
- Flow 3 ingress (mean 0.55 Mbit/s)
- Flow 3 egress (mean 0.55 Mbit/s)

![Packet Delay Graph]

- Flow 1 (95th percentile 51.00 ms)
- Flow 2 (95th percentile 51.03 ms)
- Flow 3 (95th percentile 51.24 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-06-07 07:22:15
End at: 2018-06-07 07:22:45
Local clock offset: -0.396 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 51.192 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 50.052 ms
Loss rate: 0.05%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-07 07:45:24
End at: 2018-06-07 07:45:54
Local clock offset: 0.011 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.90 Mbit/s
  95th percentile per-packet one-way delay: 50.918 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.04 Mbit/s
  95th percentile per-packet one-way delay: 50.935 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.32 Mbit/s
  95th percentile per-packet one-way delay: 50.892 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 50.894 ms
  Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

Start at: 2018-06-07 08:08:37
End at: 2018-06-07 08:09:07
Local clock offset: 0.004 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 50.786 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.480 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 50.847 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-06-07 08:31:39
End at: 2018-06-07 08:32:09
Local clock offset: -0.332 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-07 11:25:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.98 Mbit/s
95th percentile per-packet one-way delay: 51.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 50.945 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 51.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link