Pantheon Report

Data path: GCE Tokyo Ethernet (remote) → GCE Iowa Ethernet (local).
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 @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f4641b39
third_party/pcc @ 1af958fa0d66d18b623c091a55fe872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3c4f42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3db2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d4c1f
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ 0b4d447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Tokyo 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>171.47</td>
<td>168.92</td>
<td>159.18</td>
</tr>
<tr>
<td>Copa</td>
<td>10</td>
<td>116.52</td>
<td>105.82</td>
<td>97.50</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>10</td>
<td>148.66</td>
<td>132.76</td>
<td>93.99</td>
</tr>
<tr>
<td>FillIP</td>
<td>10</td>
<td>681.47</td>
<td>611.97</td>
<td>548.08</td>
</tr>
<tr>
<td>Indigo</td>
<td>10</td>
<td>206.06</td>
<td>199.91</td>
<td>166.25</td>
</tr>
<tr>
<td>LEDBAT</td>
<td>10</td>
<td>19.96</td>
<td>13.65</td>
<td>6.67</td>
</tr>
<tr>
<td>PCC-Allegro</td>
<td>10</td>
<td>498.35</td>
<td>74.67</td>
<td>36.80</td>
</tr>
<tr>
<td>PCC-Expr</td>
<td>10</td>
<td>224.70</td>
<td>154.19</td>
<td>86.87</td>
</tr>
<tr>
<td>QUIC Cubic</td>
<td>10</td>
<td>47.16</td>
<td>31.84</td>
<td>18.20</td>
</tr>
<tr>
<td>SCReAM</td>
<td>10</td>
<td>0.22</td>
<td>0.22</td>
<td>0.22</td>
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<tr>
<td>Sprout</td>
<td>10</td>
<td>0.85</td>
<td>1.17</td>
<td>1.53</td>
</tr>
<tr>
<td>TaoVA-100x</td>
<td>10</td>
<td>142.20</td>
<td>138.03</td>
<td>120.11</td>
</tr>
<tr>
<td>TCP Vegas</td>
<td>10</td>
<td>124.95</td>
<td>70.90</td>
<td>94.17</td>
</tr>
<tr>
<td>Verus</td>
<td>10</td>
<td>202.64</td>
<td>127.07</td>
<td>106.10</td>
</tr>
<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>282.05</td>
<td>241.19</td>
<td>113.58</td>
</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.93</td>
<td>1.24</td>
<td>0.50</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-06 17:35:03
End at: 2018-06-06 17:35:33
Local clock offset: -0.037 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-06 21:44:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.30 Mbit/s
95th percentile per-packet one-way delay: 71.107 ms
Loss rate: 0.68%

-- Flow 1:
Average throughput: 173.48 Mbit/s
95th percentile per-packet one-way delay: 70.244 ms
Loss rate: 0.44%

-- Flow 2:
Average throughput: 170.83 Mbit/s
95th percentile per-packet one-way delay: 71.674 ms
Loss rate: 0.66%

-- Flow 3:
Average throughput: 164.76 Mbit/s
95th percentile per-packet one-way delay: 72.854 ms
Loss rate: 1.45%
Run 1: Report of TCP BBR — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 173.51 Mbit/s)
- Flow 1 egress (mean 173.48 Mbit/s)
- Flow 2 ingress (mean 170.86 Mbit/s)
- Flow 2 egress (mean 170.83 Mbit/s)
- Flow 3 ingress (mean 165.41 Mbit/s)
- Flow 3 egress (mean 164.76 Mbit/s)

![Per-packet one-way delay Graph]

- Flow 1 (95th percentile 70.24 ms)
- Flow 2 (95th percentile 71.67 ms)
- Flow 3 (95th percentile 72.85 ms)
Run 2: Statistics of TCP BBR

Start at: 2018-06-06 17:58:13
End at: 2018-06-06 17:58:43
Local clock offset: -0.056 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-06-06 21:44:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.59 Mbit/s
95th percentile per-packet one-way delay: 69.786 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 169.17 Mbit/s
95th percentile per-packet one-way delay: 67.945 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 167.35 Mbit/s
95th percentile per-packet one-way delay: 71.346 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 158.45 Mbit/s
95th percentile per-packet one-way delay: 68.921 ms
Loss rate: 1.67%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2018-06-06 18:21:51
End at: 2018-06-06 18:22:21
Local clock offset: -0.023 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-06-06 21:44:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.30 Mbit/s
95th percentile per-packet one-way delay: 68.329 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 178.21 Mbit/s
95th percentile per-packet one-way delay: 68.122 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 174.02 Mbit/s
95th percentile per-packet one-way delay: 68.402 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 162.13 Mbit/s
95th percentile per-packet one-way delay: 69.047 ms
Loss rate: 1.38%
Run 3: Report of TCP BBR — Data Link

![Graphs showing throughput and per-packet one-way delay over time for different flows.]
Run 4: Statistics of TCP BBR

Start at: 2018-06-06 18:44:54
End at: 2018-06-06 18:45:24
Local clock offset: -0.015 ms
Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-06-06 21:44:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.82 Mbit/s
95th percentile per-packet one-way delay: 72.720 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 175.79 Mbit/s
95th percentile per-packet one-way delay: 72.178 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 172.70 Mbit/s
95th percentile per-packet one-way delay: 72.503 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 164.89 Mbit/s
95th percentile per-packet one-way delay: 74.223 ms
Loss rate: 1.37%
Run 4: Report of TCP BBR — Data Link

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

Legend:
- Flow 1 ingress (mean 175.81 Mbit/s)
- Flow 1 egress (mean 175.79 Mbit/s)
- Flow 2 ingress (mean 172.76 Mbit/s)
- Flow 2 egress (mean 172.70 Mbit/s)
- Flow 3 ingress (mean 165.06 Mbit/s)
- Flow 3 egress (mean 164.89 Mbit/s)
Run 5: Statistics of TCP BBR

Start at: 2018-06-06 19:08:16
End at: 2018-06-06 19:08:46
Local clock offset: 0.002 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-06-06 21:44:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.20 Mbit/s
95th percentile per-packet one-way delay: 81.578 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 168.66 Mbit/s
95th percentile per-packet one-way delay: 80.603 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 169.69 Mbit/s
95th percentile per-packet one-way delay: 81.227 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 163.30 Mbit/s
95th percentile per-packet one-way delay: 83.602 ms
Loss rate: 1.44%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-06-06 19:31:30
End at: 2018-06-06 19:32:00
Local clock offset: -0.011 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-06 21:44:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.60 Mbit/s
95th percentile per-packet one-way delay: 72.514 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 173.31 Mbit/s
95th percentile per-packet one-way delay: 72.096 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 169.72 Mbit/s
95th percentile per-packet one-way delay: 72.210 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 165.30 Mbit/s
95th percentile per-packet one-way delay: 73.406 ms
Loss rate: 1.43%
Run 6: Report of TCP BBR — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 173.33 Mbps)**
- **Flow 1 egress (mean 173.31 Mbps)**
- **Flow 2 ingress (mean 169.77 Mbps)**
- **Flow 2 egress (mean 169.72 Mbps)**
- **Flow 3 ingress (mean 165.57 Mbps)**
- **Flow 3 egress (mean 165.30 Mbps)**

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

- **Flow 1 (95th percentile 72.10 ms)**
- **Flow 2 (95th percentile 72.21 ms)**
- **Flow 3 (95th percentile 73.41 ms)**
Run 7: Statistics of TCP BBR

Start at: 2018-06-06 19:54:45
End at: 2018-06-06 19:55:15
Local clock offset: -0.038 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-06-06 21:44:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 341.28 Mbit/s
  95th percentile per-packet one-way delay: 73.531 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 172.14 Mbit/s
  95th percentile per-packet one-way delay: 72.868 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 172.69 Mbit/s
  95th percentile per-packet one-way delay: 73.830 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 164.88 Mbit/s
  95th percentile per-packet one-way delay: 74.300 ms
  Loss rate: 1.36%
Run 7: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 172.18 Mbps)
- Flow 1 egress (mean 172.14 Mbps)
- Flow 2 ingress (mean 172.71 Mbps)
- Flow 2 egress (mean 172.69 Mbps)
- Flow 3 ingress (mean 165.03 Mbps)
- Flow 3 egress (mean 164.88 Mbps)

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

- Flow 1 (95th percentile 72.67 ms)
- Flow 2 (95th percentile 73.83 ms)
- Flow 3 (95th percentile 74.30 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-06-06 20:18:08
End at: 2018-06-06 20:18:38
Local clock offset: -0.031 ms
Remote clock offset: -0.324 ms

# Below is generated by plot.py at 2018-06-06 21:44:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 300.99 Mbit/s
  95th percentile per-packet one-way delay: 70.745 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 159.68 Mbit/s
  95th percentile per-packet one-way delay: 70.263 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 151.22 Mbit/s
  95th percentile per-packet one-way delay: 70.872 ms
  Loss rate: 0.77%
-- Flow 3:
  Average throughput: 125.69 Mbit/s
  95th percentile per-packet one-way delay: 72.333 ms
  Loss rate: 2.17%
Run 8: Report of TCP BBR — Data Link

![Graph showing throughput performance over time for different flows]

- Flow 1 ingress (mean 159.17 Mbit/s)
- Flow 1 egress (mean 159.68 Mbit/s)
- Flow 2 ingress (mean 151.38 Mbit/s)
- Flow 2 egress (mean 151.22 Mbit/s)
- Flow 3 ingress (mean 125.24 Mbit/s)
- Flow 3 egress (mean 125.69 Mbit/s)

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

- Flow 1 (95th percentile 70.26 ms)
- Flow 2 (95th percentile 70.87 ms)
- Flow 3 (95th percentile 72.33 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-06 20:41:36
End at: 2018-06-06 20:42:06
Local clock offset: 0.052 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-06 21:49:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.39 Mbit/s
95th percentile per-packet one-way delay: 74.370 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 170.10 Mbit/s
95th percentile per-packet one-way delay: 71.596 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 171.35 Mbit/s
95th percentile per-packet one-way delay: 75.113 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 159.09 Mbit/s
95th percentile per-packet one-way delay: 76.562 ms
Loss rate: 1.47%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-06-06 21:04:31
End at: 2018-06-06 21:05:01
Local clock offset: 0.07 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-06 21:50:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 340.24 Mbit/s
  95th percentile per-packet one-way delay: 77.262 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 174.21 Mbit/s
  95th percentile per-packet one-way delay: 75.423 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 169.62 Mbit/s
  95th percentile per-packet one-way delay: 77.929 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 163.35 Mbit/s
  95th percentile per-packet one-way delay: 79.288 ms
  Loss rate: 1.43%
Run 10: Report of TCP BBR — Data Link

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

- **Flow 1** (ingress: mean 174.23 Mbit/s, egress: mean 174.21 Mbit/s)
- **Flow 2** (ingress: mean 168.54 Mbit/s, egress: mean 169.62 Mbit/s)
- **Flow 3** (ingress: mean 163.49 Mbit/s, egress: mean 163.35 Mbit/s)

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

- **Flow 1** (95th percentile: 75.42 ms)
- **Flow 2** (95th percentile: 77.93 ms)
- **Flow 3** (95th percentile: 79.29 ms)
Run 1: Statistics of Copa

Start at: 2018-06-06 17:46:44
End at: 2018-06-06 17:47:14
Local clock offset: -0.057 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-06 21:51:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.47 Mbit/s
95th percentile per-packet one-way delay: 67.753 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 124.80 Mbit/s
95th percentile per-packet one-way delay: 68.984 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 65.342 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 70.921 ms
Loss rate: 2.75%
Run 1: Report of Copa — Data Link

Throughput (Mbit/s) vs Time (s)

- Flow 1 ingress (mean 125.04 Mbit/s)
- Flow 1 egress (mean 124.80 Mbit/s)
- Flow 2 ingress (mean 93.55 Mbit/s)
- Flow 2 egress (mean 93.57 Mbit/s)
- Flow 3 ingress (mean 66.20 Mbit/s)
- Flow 3 egress (mean 65.21 Mbit/s)

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

- Flow 1 (95th percentile 68.98 ms)
- Flow 2 (95th percentile 65.34 ms)
- Flow 3 (95th percentile 70.92 ms)
Run 2: Statistics of Copa

Start at: 2018-06-06 18:10:05
End at: 2018-06-06 18:10:35
Local clock offset: -0.029 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-06 21:53:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.02 Mbit/s
95th percentile per-packet one-way delay: 88.773 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 179.13 Mbit/s
95th percentile per-packet one-way delay: 72.176 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 65.210 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 147.07 Mbit/s
95th percentile per-packet one-way delay: 112.214 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

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

- Flow 1 ingress (mean 179.20 Mbps)
- Flow 1 egress (mean 179.13 Mbps)
- Flow 2 ingress (mean 89.81 Mbps)
- Flow 2 egress (mean 89.45 Mbps)
- Flow 3 ingress (mean 147.20 Mbps)
- Flow 3 egress (mean 147.07 Mbps)

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

- Flow 1 (95th percentile 72.18 ms)
- Flow 2 (95th percentile 65.21 ms)
- Flow 3 (95th percentile 112.21 ms)
Run 3: Statistics of Copa

Start at: 2018-06-06 18:33:26
End at: 2018-06-06 18:33:56
Local clock offset: -0.024 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-06 21:53:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 171.15 Mbit/s
95th percentile per-packet one-way delay: 68.275 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 64.163 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 69.354 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 89.51 Mbit/s
95th percentile per-packet one-way delay: 77.851 ms
Loss rate: 1.44%
Run 3: Report of Copa — Data Link

![Graph showing network performance metrics over time.](image1)

![Graph showing packet loss and delay over time.](image2)
Run 4: Statistics of Copa

Start at: 2018-06-06 18:56:44
End at: 2018-06-06 18:57:14
Local clock offset: 0.002 ms
Remote clock offset: -0.312 ms

# Below is generated by plot.py at 2018-06-06 21:53:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.43 Mbit/s
95th percentile per-packet one-way delay: 72.926 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 138.33 Mbit/s
95th percentile per-packet one-way delay: 74.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 67.982 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 72.161 ms
Loss rate: 1.62%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 138.35 Mbit/s)
- Flow 1 egress (mean 138.33 Mbit/s)
- Flow 2 ingress (mean 85.14 Mbit/s)
- Flow 2 egress (mean 84.87 Mbit/s)
- Flow 3 ingress (mean 94.07 Mbit/s)
- Flow 3 egress (mean 93.72 Mbit/s)

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

- Flow 1 (95th percentile 74.41 ms)
- Flow 2 (95th percentile 67.98 ms)
- Flow 3 (95th percentile 72.16 ms)
Run 5: Statistics of Copa

Start at: 2018-06-06 19:19:57
End at: 2018-06-06 19:20:27
Local clock offset: -0.03 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-06-06 21:53:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 239.72 Mbit/s
  95th percentile per-packet one-way delay: 91.119 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 101.57 Mbit/s
  95th percentile per-packet one-way delay: 69.764 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 176.32 Mbit/s
  95th percentile per-packet one-way delay: 98.998 ms
  Loss rate: 0.29%
-- Flow 3:
  Average throughput: 63.67 Mbit/s
  95th percentile per-packet one-way delay: 67.390 ms
  Loss rate: 1.48%
Run 5: Report of Copa — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows with mean throughputs and 95th percentiles.]
Run 6: Statistics of Copa

Start at: 2018-06-06 19:43:19
End at: 2018-06-06 19:43:49
Local clock offset: 0.023 ms
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2018-06-06 21:53:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 232.06 Mbit/s
  95th percentile per-packet one-way delay: 75.234 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 146.50 Mbit/s
  95th percentile per-packet one-way delay: 73.203 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 73.66 Mbit/s
  95th percentile per-packet one-way delay: 79.898 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 111.50 Mbit/s
  95th percentile per-packet one-way delay: 80.129 ms
  Loss rate: 2.67%
Run 6: Report of Copa — Data Link

![Graph of network throughput over time, showing data for different flows with varying means and percentiles.](image)

![Graph of per-packet round-trip delay over time, showing data for different flows with varying 95th percentiles.](image)

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35
Run 7: Statistics of Copa

Start at: 2018-06-06 20:06:33
End at: 2018-06-06 20:07:03
Local clock offset: 0.106 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.62 Mbit/s
95th percentile per-packet one-way delay: 78.479 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 132.75 Mbit/s
95th percentile per-packet one-way delay: 76.435 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 139.78 Mbit/s
95th percentile per-packet one-way delay: 74.063 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 142.88 Mbit/s
95th percentile per-packet one-way delay: 89.898 ms
Loss rate: 1.54%
Run 7: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 132.65 Mbit/s)
- Flow 1 egress (mean 132.75 Mbit/s)
- Flow 2 ingress (mean 139.97 Mbit/s)
- Flow 2 egress (mean 139.78 Mbit/s)
- Flow 3 ingress (mean 143.25 Mbit/s)
- Flow 3 egress (mean 142.88 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 76.44 ms)
- Flow 2 (95th percentile 74.06 ms)
- Flow 3 (95th percentile 89.90 ms)
Run 8: Statistics of Copa

Start at: 2018-06-06 20:29:43
End at: 2018-06-06 20:30:13
Local clock offset: 0.028 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.33 Mbit/s
95th percentile per-packet one-way delay: 69.539 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 78.19 Mbit/s
95th percentile per-packet one-way delay: 68.349 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 72.604 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 68.561 ms
Loss rate: 1.75%
Run 8: Report of Copa — Data Link

![Graph 1: Throughput vs Time]

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

Legend:
- Flow 1 ingress (mean 78.39 Mbit/s)
- Flow 1 egress (mean 78.19 Mbit/s)
- Flow 2 ingress (mean 94.46 Mbit/s)
- Flow 2 egress (mean 94.93 Mbit/s)
- Flow 3 ingress (mean 94.73 Mbit/s)
- Flow 3 egress (mean 94.29 Mbit/s)

Legend:
- Flow 1 (95th percentile 68.35 ms)
- Flow 2 (95th percentile 72.60 ms)
- Flow 3 (95th percentile 68.56 ms)
Run 9: Statistics of Copa

Start at: 2018-06-06 20:53:05
End at: 2018-06-06 20:53:35
Local clock offset: 0.072 ms
Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.00 Mbit/s
95th percentile per-packet one-way delay: 77.322 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 67.15 Mbit/s
95th percentile per-packet one-way delay: 68.795 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 135.29 Mbit/s
95th percentile per-packet one-way delay: 79.757 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 124.37 Mbit/s
95th percentile per-packet one-way delay: 78.460 ms
Loss rate: 0.30%
Run 9: Report of Copa — Data Link

[Graph showing throughput and packet delay over time for different flows.]
Run 10: Statistics of Copa

Start at: 2018-06-06 21:15:48
End at: 2018-06-06 21:16:18
Local clock offset: 0.089 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.26 Mbit/s
95th percentile per-packet one-way delay: 75.418 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 109.92 Mbit/s
95th percentile per-packet one-way delay: 69.901 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 87.74 Mbit/s
95th percentile per-packet one-way delay: 83.963 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 66.831 ms
Loss rate: 1.69%
Run 10: Report of Copa — Data Link

![Graphs showing throughput and per-packet one-way delay over time for different flows, with mean rates and 95th percentile delays provided.]
Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 17:40:37
End at: 2018-06-06 17:41:07
Local clock offset: -0.05 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.16 Mbit/s
95th percentile per-packet one-way delay: 73.142 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 181.25 Mbit/s
95th percentile per-packet one-way delay: 73.374 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 71.994 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 71.379 ms
Loss rate: 1.50%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 18:03:50
End at: 2018-06-06 18:04:20
Local clock offset: -0.072 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.58 Mbit/s
95th percentile per-packet one-way delay: 75.475 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 183.44 Mbit/s
95th percentile per-packet one-way delay: 75.924 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 137.95 Mbit/s
95th percentile per-packet one-way delay: 73.997 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 150.73 Mbit/s
95th percentile per-packet one-way delay: 76.194 ms
Loss rate: 0.92%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and packet loss over time for different flows.](image-url)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 18:27:21
End at: 2018-06-06 18:27:51
Local clock offset: 0.004 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.52 Mbit/s
95th percentile per-packet one-way delay: 75.003 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 167.69 Mbit/s
95th percentile per-packet one-way delay: 75.112 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 170.28 Mbit/s
95th percentile per-packet one-way delay: 74.797 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 70.118 ms
Loss rate: 3.10%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 18:50:33
End at: 2018-06-06 18:51:03
Local clock offset: -0.033 ms
Remote clock offset: -0.439 ms

# Below is generated by plot.py at 2018-06-06 21:59:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.15 Mbit/s
95th percentile per-packet one-way delay: 75.655 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 133.66 Mbit/s
95th percentile per-packet one-way delay: 74.518 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 166.16 Mbit/s
95th percentile per-packet one-way delay: 76.168 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 100.68 Mbit/s
95th percentile per-packet one-way delay: 75.415 ms
Loss rate: 1.63%
Run 4: Report of TCP Cubic — Data Link

![Graph of throughputs and delays over time for different flows](image)

- **Flow 1 ingress (mean 133.93 Mbit/s)**
- **Flow 1 egress (mean 133.66 Mbit/s)**
- **Flow 2 ingress (mean 165.73 Mbit/s)**
- **Flow 2 egress (mean 166.16 Mbit/s)**
- **Flow 3 ingress (mean 101.03 Mbit/s)**
- **Flow 3 egress (mean 100.68 Mbit/s)**

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

- **Flow 1 (95th percentile 74.52 ms)**
- **Flow 2 (95th percentile 76.17 ms)**
- **Flow 3 (95th percentile 75.42 ms)**
Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 19:13:50
End at: 2018-06-06 19:14:20
Local clock offset: 0.022 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-06 21:59:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.39 Mbit/s
95th percentile per-packet one-way delay: 73.406 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 137.24 Mbit/s
95th percentile per-packet one-way delay: 74.541 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 106.48 Mbit/s
95th percentile per-packet one-way delay: 69.385 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 69.237 ms
Loss rate: 4.41%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 19:37:08
End at: 2018-06-06 19:37:38
Local clock offset: -0.019 ms
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2018-06-06 22:01:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.87 Mbit/s
95th percentile per-packet one-way delay: 79.385 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 135.19 Mbit/s
95th percentile per-packet one-way delay: 78.037 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 146.62 Mbit/s
95th percentile per-packet one-way delay: 75.988 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 165.73 Mbit/s
95th percentile per-packet one-way delay: 83.450 ms
Loss rate: 1.47%
Run 6: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 135.48 Mbps)
  - Flow 1 egress (mean 135.19 Mbps)
  - Flow 2 ingress (mean 146.85 Mbps)
  - Flow 2 egress (mean 146.62 Mbps)
  - Flow 3 ingress (mean 166.16 Mbps)
  - Flow 3 egress (mean 165.73 Mbps)

- **Packet Delay (ms)**
  - Flow 1 (95th percentile 78.04 ms)
  - Flow 2 (95th percentile 75.99 ms)
  - Flow 3 (95th percentile 83.45 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 20:00:22
End at: 2018-06-06 20:00:52
Local clock offset: -0.042 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-06 22:03:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.34 Mbit/s
95th percentile per-packet one-way delay: 77.094 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 182.64 Mbit/s
95th percentile per-packet one-way delay: 77.883 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 178.88 Mbit/s
95th percentile per-packet one-way delay: 76.260 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 170.29 Mbit/s
95th percentile per-packet one-way delay: 75.597 ms
Loss rate: 1.47%
Run 7: Report of TCP Cubic — Data Link

![Graph showing throughput and latency over time for different flows.](image-url)
Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 20:23:31
End at: 2018-06-06 20:24:01
Local clock offset: 0.027 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-06-06 22:03:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 207.80 Mbit/s
  95th percentile per-packet one-way delay: 73.776 ms
  Loss rate: 1.18%
-- Flow 1:
  Average throughput: 124.55 Mbit/s
  95th percentile per-packet one-way delay: 73.432 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 40.12 Mbit/s
  95th percentile per-packet one-way delay: 70.068 ms
  Loss rate: 2.88%
-- Flow 3:
  Average throughput: 172.61 Mbit/s
  95th percentile per-packet one-way delay: 74.899 ms
  Loss rate: 1.43%
Run 8: Report of TCP Cubic — Data Link
Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 20:46:57
End at: 2018-06-06 20:47:27
Local clock offset: 0.073 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-06-06 22:03:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.04 Mbit/s
95th percentile per-packet one-way delay: 78.440 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 133.07 Mbit/s
95th percentile per-packet one-way delay: 79.287 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 164.61 Mbit/s
95th percentile per-packet one-way delay: 77.522 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 78.248 ms
Loss rate: 1.52%
Run 9: Report of TCP Cubic — Data Link

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

- **Throughput**
  - Flow 1 ingress (mean 133.35 Mbit/s)
  - Flow 1 egress (mean 133.07 Mbit/s)
  - Flow 2 ingress (mean 164.52 Mbit/s)
  - Flow 2 egress (mean 164.61 Mbit/s)
  - Flow 3 ingress (mean 81.23 Mbit/s)
  - Flow 3 egress (mean 81.01 Mbit/s)

- **Packet Delay**
  - Flow 1 (95th percentile 79.29 ms)
  - Flow 2 (95th percentile 77.52 ms)
  - Flow 3 (95th percentile 78.25 ms)
Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 21:09:43
End at: 2018-06-06 21:10:13
Local clock offset: 0.085 ms
Remote clock offset: -0.508 ms

# Below is generated by plot.py at 2018-06-06 22:03:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.43 Mbit/s
95th percentile per-packet one-way delay: 77.893 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 107.90 Mbit/s
95th percentile per-packet one-way delay: 72.360 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 176.78 Mbit/s
95th percentile per-packet one-way delay: 80.264 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 68.859 ms
Loss rate: 5.37%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2018-06-06 17:50:37
End at: 2018-06-06 17:51:07
Local clock offset: -0.043 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2018-06-06 22:24:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1203.37 Mbit/s
95th percentile per-packet one-way delay: 150.896 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 625.09 Mbit/s
95th percentile per-packet one-way delay: 149.650 ms
Loss rate: 3.37%
-- Flow 2:
Average throughput: 616.70 Mbit/s
95th percentile per-packet one-way delay: 152.448 ms
Loss rate: 3.54%
-- Flow 3:
Average throughput: 515.44 Mbit/s
95th percentile per-packet one-way delay: 153.275 ms
Loss rate: 2.94%
Run 1: Report of FillP — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 ingress (mean 644.13 Mbps/s)
Flow 1 egress (mean 625.09 Mbps/s)
Flow 2 ingress (mean 635.29 Mbps/s)
Flow 2 egress (mean 616.70 Mbps/s)
Flow 3 ingress (mean 524.19 Mbps/s)
Flow 3 egress (mean 515.44 Mbps/s)

Packet delay (ms)

Time (s)

Flow 1 (95th percentile 149.65 ms)
Flow 2 (95th percentile 152.45 ms)
Flow 3 (95th percentile 153.28 ms)
Run 2: Statistics of FillP

Start at: 2018-06-06 18:14:04
End at: 2018-06-06 18:14:34
Local clock offset: -0.039 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2018-06-06 22:28:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1309.12 Mbit/s
95th percentile per-packet one-way delay: 152.015 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 695.14 Mbit/s
95th percentile per-packet one-way delay: 150.216 ms
Loss rate: 4.95%
-- Flow 2:
Average throughput: 643.86 Mbit/s
95th percentile per-packet one-way delay: 161.090 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 117.057 ms
Loss rate: 1.31%
Run 2: Report of FillP — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 Ingress (mean 728.23 Mb/s)
Flow 1 Egress (mean 695.14 Mb/s)
Flow 2 Ingress (mean 663.45 Mb/s)
Flow 2 Egress (mean 643.86 Mb/s)
Flow 3 Ingress (mean 568.67 Mb/s)
Flow 3 Egress (mean 566.50 Mb/s)

Delay (ms)

Flow 1 (95th percentile 150.22 ms)
Flow 2 (95th percentile 161.09 ms)
Flow 3 (95th percentile 117.06 ms)
Run 3: Statistics of FillP

Start at: 2018-06-06 18:37:17
End at: 2018-06-06 18:37:47
Local clock offset: -0.024 ms
Remote clock offset: 0.359 ms

# Below is generated by plot.py at 2018-06-06 22:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1370.29 Mbit/s
95th percentile per-packet one-way delay: 180.787 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 709.56 Mbit/s
95th percentile per-packet one-way delay: 218.727 ms
Loss rate: 3.16%
-- Flow 2:
Average throughput: 684.84 Mbit/s
95th percentile per-packet one-way delay: 140.955 ms
Loss rate: 3.12%
-- Flow 3:
Average throughput: 626.48 Mbit/s
95th percentile per-packet one-way delay: 131.697 ms
Loss rate: 1.11%
Run 3: Report of FillP — Data Link

Below are two graphs indicating data flow and latency over time for different flows. The graphs show the throughput and per-packet one-way delay for Flows 1, 2, and 3.
Run 4: Statistics of FillP

Start at: 2018-06-06 19:00:38
End at: 2018-06-06 19:01:08
Local clock offset: -0.007 ms
Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2018-06-06 22:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1262.42 Mbit/s
95th percentile per-packet one-way delay: 185.780 ms
Loss rate: 4.73%
-- Flow 1:
Average throughput: 656.92 Mbit/s
95th percentile per-packet one-way delay: 183.725 ms
Loss rate: 6.27%
-- Flow 2:
Average throughput: 620.98 Mbit/s
95th percentile per-packet one-way delay: 208.212 ms
Loss rate: 3.44%
-- Flow 3:
Average throughput: 589.54 Mbit/s
95th percentile per-packet one-way delay: 132.488 ms
Loss rate: 2.07%
Run 4: Report of FillP — Data Link

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

- **Flow 1 Ingress** (mean 697.91 Mbps/s)
- **Flow 1 Egress** (mean 656.92 Mbps/s)
- **Flow 2 Ingress** (mean 638.97 Mbps/s)
- **Flow 2 Egress** (mean 620.98 Mbps/s)
- **Flow 3 Ingress** (mean 594.22 Mbps/s)
- **Flow 3 Egress** (mean 589.54 Mbps/s)

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

- **Flow 1 (95th percentile 183.72 ms)**
- **Flow 2 (95th percentile 208.21 ms)**
- **Flow 3 (95th percentile 132.49 ms)**
Run 5: Statistics of FillP

End at: 2018-06-06 19:24:23
Local clock offset: -0.028 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-06-06 22:31:19
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 1273.81 Mbit/s
   95th percentile per-packet one-way delay: 162.372 ms
   Loss rate: 4.98%
-- Flow 1:
   Average throughput: 705.47 Mbit/s
   95th percentile per-packet one-way delay: 154.884 ms
   Loss rate: 4.77%
-- Flow 2:
   Average throughput: 617.91 Mbit/s
   95th percentile per-packet one-way delay: 156.141 ms
   Loss rate: 5.27%
-- Flow 3:
   Average throughput: 481.09 Mbit/s
   95th percentile per-packet one-way delay: 167.836 ms
   Loss rate: 5.11%
Run 5: Report of FillP — Data Link

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

- **Flow 1 Ingress** (mean 737.74 Mbps)
- **Flow 1 Egress** (mean 705.47 Mbps)
- **Flow 2 Ingress** (mean 648.09 Mbps)
- **Flow 2 Egress** (mean 617.91 Mbps)
- **Flow 3 Ingress** (mean 500.45 Mbps)
- **Flow 3 Egress** (mean 481.09 Mbps)

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

- **Flow 1** (95th percentile 154.88 ms)
- **Flow 2** (95th percentile 156.14 ms)
- **Flow 3** (95th percentile 167.84 ms)
Run 6: Statistics of FillIP

Start at: 2018-06-06 19:47:13
End at: 2018-06-06 19:47:43
Local clock offset: -0.037 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-06-06 22:31:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1250.18 Mbit/s
  95th percentile per-packet one-way delay: 144.019 ms
  Loss rate: 3.41%
-- Flow 1:
  Average throughput: 676.59 Mbit/s
  95th percentile per-packet one-way delay: 145.060 ms
  Loss rate: 4.90%
-- Flow 2:
  Average throughput: 584.19 Mbit/s
  95th percentile per-packet one-way delay: 145.616 ms
  Loss rate: 1.36%
-- Flow 3:
  Average throughput: 565.81 Mbit/s
  95th percentile per-packet one-way delay: 116.288 ms
  Loss rate: 2.10%
Run 6: Report of FillP — Data Link

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

- Flow 1 ingress (mean 708.37 Mbit/s)
- Flow 1 egress (mean 676.59 Mbit/s)
- Flow 2 ingress (mean 588.20 Mbit/s)
- Flow 2 egress (mean 584.19 Mbit/s)
- Flow 3 ingress (mean 570.69 Mbit/s)
- Flow 3 egress (mean 565.81 Mbit/s)

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

- Flow 1 (95th percentile 145.06 ms)
- Flow 2 (95th percentile 145.62 ms)
- Flow 3 (95th percentile 116.29 ms)
Run 7: Statistics of FillP

Start at: 2018-06-06 20:10:32
End at: 2018-06-06 20:11:02
Local clock offset: -0.049 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-06-06 22:31:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1230.14 Mbit/s
95th percentile per-packet one-way delay: 184.769 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 695.96 Mbit/s
95th percentile per-packet one-way delay: 140.260 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 563.30 Mbit/s
95th percentile per-packet one-way delay: 203.145 ms
Loss rate: 6.58%
-- Flow 3:
Average throughput: 488.12 Mbit/s
95th percentile per-packet one-way delay: 200.208 ms
Loss rate: 1.05%
Run 7: Report of FillP — Data Link

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

- Flow 1 ingress (mean 716.01 Mb/s) — Flow 1 egress (mean 695.96 Mb/s)
- Flow 2 ingress (mean 599.00 Mb/s) — Flow 2 egress (mean 563.30 Mb/s)
- Flow 3 ingress (mean 486.72 Mb/s) — Flow 3 egress (mean 486.12 Mb/s)
Run 8: Statistics of FillP

Start at: 2018-06-06 20:33:33
End at: 2018-06-06 20:34:03
Local clock offset: 0.053 ms
Remote clock offset: -0.511 ms

# Below is generated by plot.py at 2018-06-06 22:34:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1366.70 Mbit/s
95th percentile per-packet one-way delay: 205.565 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 743.04 Mbit/s
95th percentile per-packet one-way delay: 214.729 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 675.43 Mbit/s
95th percentile per-packet one-way delay: 197.464 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 532.47 Mbit/s
95th percentile per-packet one-way delay: 162.530 ms
Loss rate: 7.10%
Run 8: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 734.46 Mbps)  
Flow 1 egress (mean 743.04 Mbps)

Flow 2 ingress (mean 682.88 Mbps)  
Flow 2 egress (mean 675.43 Mbps)

Flow 3 ingress (mean 565.71 Mbps)  
Flow 3 egress (mean 532.47 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 214.73 ms)  
Flow 2 (95th percentile 197.46 ms)  
Flow 3 (95th percentile 162.53 ms)
Run 9: Statistics of FillP

Start at: 2018-06-06 20:56:56
End at: 2018-06-06 20:57:26
Local clock offset: 0.074 ms
Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-06-06 22:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1236.44 Mbit/s
95th percentile per-packet one-way delay: 146.611 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 659.35 Mbit/s
95th percentile per-packet one-way delay: 141.041 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 576.41 Mbit/s
95th percentile per-packet one-way delay: 160.091 ms
Loss rate: 4.40%
-- Flow 3:
Average throughput: 592.22 Mbit/s
95th percentile per-packet one-way delay: 122.981 ms
Loss rate: 1.72%
Run 9: Report of FillP — Data Link

![Graph of Throughput vs Time](image1)

- **Flow 1 Ingress (mean 674.70 Mbit/s)**
- **Flow 1 Egress (mean 659.35 Mbit/s)**
- **Flow 2 Ingress (mean 598.93 Mbit/s)**
- **Flow 2 Egress (mean 576.41 Mbit/s)**
- **Flow 3 Ingress (mean 594.58 Mbit/s)**
- **Flow 3 Egress (mean 592.22 Mbit/s)**

![Graph of Percentage of One-way Delay vs Time](image2)

- **Flow 1 (95th percentile 141.04 ms)**
- **Flow 2 (95th percentile 160.09 ms)**
- **Flow 3 (95th percentile 122.90 ms)**

81
Run 10: Statistics of FillP

Start at: 2018-06-06 21:19:39
End at: 2018-06-06 21:20:09
Local clock offset: 0.106 ms
Remote clock offset: -0.299 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1174.21 Mbit/s
95th percentile per-packet one-way delay: 178.706 ms
Loss rate: 5.59%
-- Flow 1:
Average throughput: 647.55 Mbit/s
95th percentile per-packet one-way delay: 165.833 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 536.09 Mbit/s
95th percentile per-packet one-way delay: 189.736 ms
Loss rate: 7.19%
-- Flow 3:
Average throughput: 521.15 Mbit/s
95th percentile per-packet one-way delay: 180.132 ms
Loss rate: 7.75%
Run 10: Report of FillP — Data Link
Run 1: Statistics of Indigo

Start at: 2018-06-06 17:43:29
End at: 2018-06-06 17:44:00
Local clock offset: -0.05 ms
Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.95 Mbit/s
95th percentile per-packet one-way delay: 75.068 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 207.39 Mbit/s
95th percentile per-packet one-way delay: 72.807 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 208.38 Mbit/s
95th percentile per-packet one-way delay: 74.983 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 181.20 Mbit/s
95th percentile per-packet one-way delay: 80.742 ms
Loss rate: 1.31%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2018-06-06 18:06:46
End at: 2018-06-06 18:07:16
Local clock offset: -0.047 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 384.82 Mbit/s
  95th percentile per-packet one-way delay: 70.418 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 204.10 Mbit/s
  95th percentile per-packet one-way delay: 68.837 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 195.06 Mbit/s
  95th percentile per-packet one-way delay: 73.575 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 158.16 Mbit/s
  95th percentile per-packet one-way delay: 69.762 ms
  Loss rate: 1.07%
Run 2: Report of Indigo — Data Link
Run 3: Statistics of Indigo

Start at: 2018-06-06 18:30:15
End at: 2018-06-06 18:30:45
Local clock offset: -0.025 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 67.703 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 208.16 Mbit/s
95th percentile per-packet one-way delay: 67.356 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 196.81 Mbit/s
95th percentile per-packet one-way delay: 68.170 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 166.79 Mbit/s
95th percentile per-packet one-way delay: 67.589 ms
Loss rate: 1.55%
Run 4: Statistics of Indigo

Start at: 2018-06-06 18:53:28
End at: 2018-06-06 18:53:58
Local clock offset: 0.017 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 391.57 Mbit/s
  95th percentile per-packet one-way delay: 68.642 ms
  Loss rate: 0.81%
-- Flow 1:
  Average throughput: 207.83 Mbit/s
  95th percentile per-packet one-way delay: 67.779 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 195.43 Mbit/s
  95th percentile per-packet one-way delay: 68.457 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 166.81 Mbit/s
  95th percentile per-packet one-way delay: 70.108 ms
  Loss rate: 1.95%
Run 4: Report of Indigo — Data Link

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

- **Throughput:**
  - Flow 1 ingress (mean 208.02 Mbit/s)
  - Flow 1 egress (mean 207.83 Mbit/s)
  - Flow 2 ingress (mean 195.80 Mbit/s)
  - Flow 2 egress (mean 195.43 Mbit/s)
  - Flow 3 ingress (mean 167.94 Mbit/s)
  - Flow 3 egress (mean 166.61 Mbit/s)

- **Per-packet one-way delay:**
  - Flow 1 (95th percentile 67.78 ms)
  - Flow 2 (95th percentile 68.46 ms)
  - Flow 3 (95th percentile 70.11 ms)
Run 5: Statistics of Indigo

Start at: 2018-06-06 19:16:41
End at: 2018-06-06 19:17:11
Local clock offset: -0.021 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics

-- Total of 3 flows:
Average throughput: 389.82 Mbit/s
95th percentile per-packet one-way delay: 71.876 ms
Loss rate: 0.67%

-- Flow 1:
Average throughput: 205.99 Mbit/s
95th percentile per-packet one-way delay: 69.405 ms
Loss rate: 0.44%

-- Flow 2:
Average throughput: 198.69 Mbit/s
95th percentile per-packet one-way delay: 72.711 ms
Loss rate: 0.67%

-- Flow 3:
Average throughput: 160.40 Mbit/s
95th percentile per-packet one-way delay: 75.029 ms
Loss rate: 1.59%
Run 6: Statistics of Indigo

Start at: 2018-06-06 19:40:02
End at: 2018-06-06 19:40:32
Local clock offset: -0.016 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 397.81 Mbit/s
95th percentile per-packet one-way delay: 66.937 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 208.98 Mbit/s
95th percentile per-packet one-way delay: 66.443 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 200.45 Mbit/s
95th percentile per-packet one-way delay: 67.216 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 165.21 Mbit/s
95th percentile per-packet one-way delay: 67.471 ms
Loss rate: 1.50%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-06 20:03:19
End at: 2018-06-06 20:03:49
Local clock offset: -0.006 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 386.77 Mbit/s
  95th percentile per-packet one-way delay: 67.278 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 205.53 Mbit/s
  95th percentile per-packet one-way delay: 66.165 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 196.31 Mbit/s
  95th percentile per-packet one-way delay: 68.988 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 156.25 Mbit/s
  95th percentile per-packet one-way delay: 67.520 ms
  Loss rate: 1.53%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-06 20:26:22
End at: 2018-06-06 20:26:52
Local clock offset: -0.01 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.47 Mbit/s
95th percentile per-packet one-way delay: 66.485 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 207.63 Mbit/s
95th percentile per-packet one-way delay: 66.213 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 202.17 Mbit/s
95th percentile per-packet one-way delay: 66.603 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 162.85 Mbit/s
95th percentile per-packet one-way delay: 66.878 ms
Loss rate: 1.59%
Run 8: Report of Indigo — Data Link

[Graphs showing throughput and round-trip time for different flows over time]
Run 9: Statistics of Indigo

Start at: 2018-06-06 20:49:52
End at: 2018-06-06 20:50:22
Local clock offset: 0.076 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.55 Mbit/s
95th percentile per-packet one-way delay: 69.462 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 202.44 Mbit/s
95th percentile per-packet one-way delay: 68.090 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 209.32 Mbit/s
95th percentile per-packet one-way delay: 69.816 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 183.72 Mbit/s
95th percentile per-packet one-way delay: 71.635 ms
Loss rate: 1.50%
Run 9: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 202.41 Mbit/s)
- Flow 1 egress (mean 202.44 Mbit/s)
- Flow 2 ingress (mean 209.25 Mbit/s)
- Flow 2 egress (mean 209.32 Mbit/s)
- Flow 3 ingress (mean 184.66 Mbit/s)
- Flow 3 egress (mean 183.72 Mbit/s)
Run 10: Statistics of Indigo

Start at: 2018-06-06 21:12:36
End at: 2018-06-06 21:13:06
Local clock offset: 0.11 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.89 Mbit/s
95th percentile per-packet one-way delay: 69.601 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 202.59 Mbit/s
95th percentile per-packet one-way delay: 68.922 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 196.48 Mbit/s
95th percentile per-packet one-way delay: 68.703 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 161.13 Mbit/s
95th percentile per-packet one-way delay: 72.227 ms
Loss rate: 1.57%
Run 10: Report of Indigo — Data Link

Graphs showing throughput and per-packet one-way delay for different flows over time.
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 17:48:12
End at: 2018-06-06 17:48:42
Local clock offset: -0.046 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 33.79 Mbit/s
  95th percentile per-packet one-way delay: 65.668 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 21.99 Mbit/s
  95th percentile per-packet one-way delay: 65.775 ms
  Loss rate: 0.85%
-- Flow 2:
  Average throughput: 14.30 Mbit/s
  95th percentile per-packet one-way delay: 65.619 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 7.16 Mbit/s
  95th percentile per-packet one-way delay: 64.430 ms
  Loss rate: 2.60%
Run 1: Report of LEDBAT — Data Link

Graph 1: Throughput over time for different flows.
- Flow 1 ingress (mean 22.08 Mbit/s)
- Flow 1 egress (mean 21.99 Mbit/s)
- Flow 2 ingress (mean 14.39 Mbit/s)
- Flow 2 egress (mean 14.30 Mbit/s)
- Flow 3 ingress (mean 7.25 Mbit/s)
- Flow 3 egress (mean 7.16 Mbit/s)

Graph 2: Packet delay over time for different flows.
- Flow 1 (95th percentile 65.70 ms)
- Flow 2 (95th percentile 65.62 ms)
- Flow 3 (95th percentile 64.43 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-06-06 18:11:39
End at: 2018-06-06 18:12:09
Local clock offset: -0.03 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.14 Mbit/s
95th percentile per-packet one-way delay: 65.264 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 65.404 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 65.068 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 64.558 ms
Loss rate: 2.56%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-06-06 18:34:51
End at: 2018-06-06 18:35:21
Local clock offset: -0.017 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.81 Mbit/s
95th percentile per-packet one-way delay: 65.533 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 22.01 Mbit/s
95th percentile per-packet one-way delay: 65.888 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 65.098 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 64.668 ms
Loss rate: 2.60%
Run 3: Report of LEDBAT — Data Link

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

![Graph 2: Packet One-Way Delay vs Time](image2)
Run 4: Statistics of LEDBAT

Start at: 2018-06-06 18:58:14
End at: 2018-06-06 18:58:44
Local clock offset: -0.013 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 65.302 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 65.453 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 64.995 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 65.220 ms
Loss rate: 2.56%
Run 4: Report of LEDBAT — Data Link

[Graph showing throughput and packet round-trip delay over time for different flows, with legends indicating mean throughput and 95th percentile delay for each flow.]
Run 5: Statistics of LEDBAT

End at: 2018-06-06 19:21:58
Local clock offset: -0.07 ms
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.49 Mbit/s
95th percentile per-packet one-way delay: 65.031 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 65.170 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 64.866 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 64.555 ms
Loss rate: 3.14%
Run 5: Report of LEDBAT — Data Link
Run 6: Statistics of LEDBAT

Start at: 2018-06-06 19:44:49
End at: 2018-06-06 19:45:19
Local clock offset: -0.043 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 65.374 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 65.595 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 65.161 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 64.965 ms
Loss rate: 2.84%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-06-06 20:08:08
End at: 2018-06-06 20:08:38
Local clock offset: 0.002 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 65.560 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 65.802 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 65.224 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 64.948 ms
Loss rate: 2.73%
Run 7: Report of LEDBAT — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 21.95 Mb/s)
- **Flow 1 egress** (mean 21.86 Mb/s)
- **Flow 2 ingress** (mean 14.86 Mb/s)
- **Flow 2 egress** (mean 14.57 Mb/s)
- **Flow 3 ingress** (mean 6.55 Mb/s)
- **Flow 3 egress** (mean 6.46 Mb/s)

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

- **Flow 1 (95th percentile 65.80 ms)**
- **Flow 2 (95th percentile 65.22 ms)**
- **Flow 3 (95th percentile 64.95 ms)**
Run 8: Statistics of LEDBAT

Start at: 2018-06-06 20:31:08
End at: 2018-06-06 20:31:38
Local clock offset: 0.079 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 65.789 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 65.823 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 14.25 Mbit/s
95th percentile per-packet one-way delay: 65.698 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 65.584 ms
Loss rate: 2.59%
Run 8: Report of LEDBAT — Data Link

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

Legend:
- Flow 1 ingress (mean 21.11 Mbit/s)
- Flow 1 egress (mean 21.02 Mbit/s)
- Flow 2 ingress (mean 14.34 Mbit/s)
- Flow 2 egress (mean 14.25 Mbit/s)
- Flow 3 ingress (mean 7.18 Mbit/s)
- Flow 3 egress (mean 7.06 Mbit/s)
Run 9: Statistics of LEDBAT

Start at: 2018-06-06 20:54:32
End at: 2018-06-06 20:55:02
Local clock offset: 0.062 ms
Remote clock offset: -0.376 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 68.674 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 68.799 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.19 Mbit/s
95th percentile per-packet one-way delay: 68.504 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 67.890 ms
Loss rate: 2.63%
Run 9: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 20.35 Mbit/s)
- Flow 1 egress (mean 20.26 Mbit/s)
- Flow 2 ingress (mean 14.28 Mbit/s)
- Flow 2 egress (mean 14.19 Mbit/s)
- Flow 3 ingress (mean 6.72 Mbit/s)
- Flow 3 egress (mean 6.63 Mbit/s)

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

- Flow 1 (95th percentile 68.80 ms)
- Flow 2 (95th percentile 68.50 ms)
- Flow 3 (95th percentile 67.89 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-06-06 21:17:14
End at: 2018-06-06 21:17:44
Local clock offset: 0.116 ms
Remote clock offset: -0.415 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 32.11 Mbit/s
  95th percentile per-packet one-way delay: 68.581 ms
  Loss rate: 1.12%
-- Flow 1:
  Average throughput: 20.53 Mbit/s
  95th percentile per-packet one-way delay: 68.789 ms
  Loss rate: 0.86%
-- Flow 2:
  Average throughput: 14.03 Mbit/s
  95th percentile per-packet one-way delay: 68.210 ms
  Loss rate: 1.31%
-- Flow 3:
  Average throughput: 7.00 Mbit/s
  95th percentile per-packet one-way delay: 67.543 ms
  Loss rate: 2.62%
Run 10: Report of LEDBAT — Data Link

![Graph of throughput and latency over time for different flows.](image)

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 20.63 Mbps)
- **Flow 1 egress** (mean 20.53 Mbps)
- **Flow 2 ingress** (mean 14.12 Mbps)
- **Flow 2 egress** (mean 14.03 Mbps)
- **Flow 3 ingress** (mean 7.09 Mbps)
- **Flow 3 egress** (mean 7.00 Mbps)

**Latency (ms)**

- **Flow 1** (95th percentile 68.79 ms)
- **Flow 2** (95th percentile 68.21 ms)
- **Flow 3** (95th percentile 67.54 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 17:41:59
End at: 2018-06-06 17:42:29
Local clock offset: -0.054 ms
Remote clock offset: -0.335 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 581.12 Mbit/s
  95th percentile per-packet one-way delay: 200.786 ms
  Loss rate: 1.18%
-- Flow 1:
  Average throughput: 537.67 Mbit/s
  95th percentile per-packet one-way delay: 204.885 ms
  Loss rate: 1.21%
-- Flow 2:
  Average throughput: 63.12 Mbit/s
  95th percentile per-packet one-way delay: 141.580 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 4.99 Mbit/s
  95th percentile per-packet one-way delay: 134.612 ms
  Loss rate: 1.68%
Run 1: Report of PCC-Allegro — Data Link

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

- **Flow 1 Ingress** (mean 541.05 Mbps/s)
- **Flow 1 Egress** (mean 537.67 Mbps/s)
- **Flow 2 Ingress** (mean 63.18 Mbps/s)
- **Flow 2 Egress** (mean 63.12 Mbps/s)
- **Flow 3 Ingress** (mean 5.91 Mbps/s)
- **Flow 3 Egress** (mean 4.99 Mbps/s)

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

- **Flow 1 (95th percentile 204.88 ms)**
- **Flow 2 (95th percentile 141.58 ms)**
- **Flow 3 (95th percentile 134.61 ms)**
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 18:05:17
End at: 2018-06-06 18:05:47
Local clock offset: -0.043 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 555.67 Mbit/s
95th percentile per-packet one-way delay: 176.270 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 509.34 Mbit/s
95th percentile per-packet one-way delay: 175.665 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 180.575 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 184.726 ms
Loss rate: 1.44%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 18:28:45
End at: 2018-06-06 18:29:15
Local clock offset: -0.014 ms
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 561.95 Mbit/s
95th percentile per-packet one-way delay: 209.312 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 493.67 Mbit/s
95th percentile per-packet one-way delay: 211.337 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 73.06 Mbit/s
95th percentile per-packet one-way delay: 117.455 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 119.822 ms
Loss rate: 1.72%
Run 3: Report of PCC-Allegro — Data Link

![Throughput vs Time Graph](image)

![Packet Delay vs Time Graph](image)

129
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 18:51:58
End at: 2018-06-06 18:52:28
Local clock offset: 0.005 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.48 Mbit/s
95th percentile per-packet one-way delay: 177.529 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 515.93 Mbit/s
95th percentile per-packet one-way delay: 179.477 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 120.168 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 113.051 ms
Loss rate: 1.87%
Run 4: Report of PCC-Allegro — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 524.33 Mbps)
- Flow 1 egress (mean 515.93 Mbps)
- Flow 2 ingress (mean 67.40 Mbps)
- Flow 2 egress (mean 67.28 Mbps)
- Flow 3 ingress (mean 33.68 Mbps)
- Flow 3 egress (mean 33.48 Mbps)

Delay (ms):

- Flow 1 (95th percentile 179.48 ms)
- Flow 2 (95th percentile 120.17 ms)
- Flow 3 (95th percentile 113.05 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 19:15:11
End at: 2018-06-06 19:15:41
Local clock offset: -0.028 ms
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 558.81 Mbit/s
95th percentile per-packet one-way delay: 157.620 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 473.77 Mbit/s
95th percentile per-packet one-way delay: 161.017 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 126.02 Mbit/s
95th percentile per-packet one-way delay: 113.997 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.928 ms
Loss rate: 1.30%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 19:38:33
End at: 2018-06-06 19:39:03
Local clock offset: -0.046 ms
Remote clock offset: -0.335 ms

# Below is generated by plot.py at 2018-06-06 22:57:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.17 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 533.15 Mbit/s
95th percentile per-packet one-way delay: 110.677 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 89.005 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 16.47 Mbit/s
95th percentile per-packet one-way delay: 91.206 ms
Loss rate: 1.35%
Run 6: Report of PCC-Allegro — Data Link

- Flow 1 Ingress (mean 537.05 Mb/s)
- Flow 1 Egress (mean 533.15 Mb/s)
- Flow 2 Ingress (mean 32.67 Mb/s)
- Flow 2 Egress (mean 32.64 Mb/s)
- Flow 3 Ingress (mean 16.49 Mb/s)
- Flow 3 Egress (mean 16.47 Mb/s)

- Flow 1 (95th percentile 110.68 ms)
- Flow 2 (95th percentile 89.00 ms)
- Flow 3 (95th percentile 91.21 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 20:01:50
End at: 2018-06-06 20:02:20
Local clock offset: 0.003 ms
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2018-06-06 23:04:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 531.11 Mbit/s
  95th percentile per-packet one-way delay: 174.559 ms
  Loss rate: 1.20%
-- Flow 1:
  Average throughput: 457.98 Mbit/s
  95th percentile per-packet one-way delay: 174.556 ms
  Loss rate: 1.24%
-- Flow 2:
  Average throughput: 108.09 Mbit/s
  95th percentile per-packet one-way delay: 174.315 ms
  Loss rate: 0.93%
-- Flow 3:
  Average throughput: 4.37 Mbit/s
  95th percentile per-packet one-way delay: 181.831 ms
  Loss rate: 1.49%
Run 7: Report of PCC-Allegro — Data Link
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 20:24:51
End at: 2018-06-06 20:25:22
Local clock offset: 0.019 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-06-06 23:06:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.00 Mbit/s
95th percentile per-packet one-way delay: 251.763 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 498.39 Mbit/s
95th percentile per-packet one-way delay: 254.074 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 67.97 Mbit/s
95th percentile per-packet one-way delay: 173.944 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 62.90 Mbit/s
95th percentile per-packet one-way delay: 172.922 ms
Loss rate: 3.33%
Run 8: Report of PCC-AlLEGRO — Data Link

The graphs show the throughput and per-packet one-way delay for different flows over time. The throughput graph indicates the data flow in Mbps, while the per-packet delay graph shows the delay in milliseconds.

Key points:
- **Throughput Graph**:
  - Flow 1 ( ingress mean 513.95 Mbps)
  - Flow 2 ( ingress mean 68.61 Mbps)
  - Flow 3 ( ingress mean 64.22 Mbps)
  - Flow 1 ( egress mean 498.39 Mbps)
  - Flow 2 ( egress mean 67.97 Mbps)
  - Flow 3 ( egress mean 62.90 Mbps)

- **Per-packet delay Graph**:
  - Flow 1 (95th percentile 254.07 ms)
  - Flow 2 (95th percentile 173.94 ms)
  - Flow 3 (95th percentile 172.92 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 20:48:21
End at: 2018-06-06 20:48:51
Local clock offset: 0.083 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-06 23:06:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.38 Mbit/s
95th percentile per-packet one-way delay: 188.118 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 502.00 Mbit/s
95th percentile per-packet one-way delay: 189.189 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 34.16 Mbit/s
95th percentile per-packet one-way delay: 172.001 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 115.64 Mbit/s
95th percentile per-packet one-way delay: 172.399 ms
Loss rate: 5.59%
Run 9: Report of PCC-Allegro — Data Link

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

- Flow 1 Ingress (mean 514.01 Mbit/s) and Egress (mean 502.00 Mbit/s)
- Flow 2 Ingress (mean 34.80 Mbit/s) and Egress (mean 34.16 Mbit/s)
- Flow 3 Ingress (mean 120.81 Mbit/s) and Egress (mean 115.64 Mbit/s)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 21:11:05  
End at: 2018-06-06 21:11:35  
Local clock offset: 0.026 ms  
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-06-06 23:06:18  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 552.19 Mbit/s  
95th percentile per-packet one-way delay: 200.558 ms  
Loss rate: 3.12%  
-- Flow 1:  
Average throughput: 461.63 Mbit/s  
95th percentile per-packet one-way delay: 204.499 ms  
Loss rate: 3.09%  
-- Flow 2:  
Average throughput: 106.69 Mbit/s  
95th percentile per-packet one-way delay: 189.928 ms  
Loss rate: 2.79%  
-- Flow 3:  
Average throughput: 60.74 Mbit/s  
95th percentile per-packet one-way delay: 192.243 ms  
Loss rate: 4.88%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 17:45:05
End at: 2018-06-06 17:45:35
Local clock offset: -0.054 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-06 23:09:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.31 Mbit/s
95th percentile per-packet one-way delay: 88.705 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 185.00 Mbit/s
95th percentile per-packet one-way delay: 77.824 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 162.88 Mbit/s
95th percentile per-packet one-way delay: 113.701 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 174.75 Mbit/s
95th percentile per-packet one-way delay: 101.211 ms
Loss rate: 1.42%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 18:08:21
End at: 2018-06-06 18:08:51
Local clock offset: -0.071 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-06 23:10:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 383.34 Mbit/s
  95th percentile per-packet one-way delay: 190.974 ms
  Loss rate: 1.96%
-- Flow 1:
  Average throughput: 228.99 Mbit/s
  95th percentile per-packet one-way delay: 192.793 ms
  Loss rate: 2.69%
-- Flow 2:
  Average throughput: 183.63 Mbit/s
  95th percentile per-packet one-way delay: 77.996 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 99.49 Mbit/s
  95th percentile per-packet one-way delay: 65.358 ms
  Loss rate: 1.56%
Run 2: Report of PCC-Expr — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 18:31:51
End at: 2018-06-06 18:32:21
Local clock offset: -0.024 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-06 23:10:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 278.10 Mbit/s
  95th percentile per-packet one-way delay: 64.187 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 180.67 Mbit/s
  95th percentile per-packet one-way delay: 64.559 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 113.66 Mbit/s
  95th percentile per-packet one-way delay: 64.050 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 67.22 Mbit/s
  95th percentile per-packet one-way delay: 63.627 ms
  Loss rate: 1.15%
Run 3: Report of PCC-Expr — Data Link

![Graph of Throughput vs Time and Per-packet one-way delay vs Time]
Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 18:55:05
End at: 2018-06-06 18:55:35
Local clock offset: -0.039 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-06-06 23:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.69 Mbit/s
95th percentile per-packet one-way delay: 224.432 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 219.58 Mbit/s
95th percentile per-packet one-way delay: 246.913 ms
Loss rate: 2.99%
-- Flow 2:
Average throughput: 125.95 Mbit/s
95th percentile per-packet one-way delay: 72.934 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 62.78 Mbit/s
95th percentile per-packet one-way delay: 64.876 ms
Loss rate: 1.96%
Run 4: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 225.39 Mbit/s)
- Flow 1 egress (mean 219.58 Mbit/s)
- Flow 2 ingress (mean 125.58 Mbit/s)
- Flow 2 egress (mean 125.95 Mbit/s)
- Flow 3 ingress (mean 63.22 Mbit/s)
- Flow 3 egress (mean 62.78 Mbit/s)
Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 19:18:17
End at: 2018-06-06 19:18:47
Local clock offset: -0.041 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-06-06 23:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.00 Mbit/s
95th percentile per-packet one-way delay: 185.189 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 211.73 Mbit/s
95th percentile per-packet one-way delay: 176.566 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 232.60 Mbit/s
95th percentile per-packet one-way delay: 189.550 ms
Loss rate: 3.78%
-- Flow 3:
Average throughput: 54.79 Mbit/s
95th percentile per-packet one-way delay: 184.310 ms
Loss rate: 4.77%
Run 5: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 215.05 Mbps)
- **Flow 1 egress** (mean 211.73 Mbps)
- **Flow 2 ingress** (mean 240.20 Mbps)
- **Flow 2 egress** (mean 232.68 Mbps)
- **Flow 3 ingress** (mean 56.79 Mbps)
- **Flow 3 egress** (mean 54.79 Mbps)

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

- **Flow 1** (95th percentile 176.57 ms)
- **Flow 2** (95th percentile 189.55 ms)
- **Flow 3** (95th percentile 184.31 ms)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 19:41:38
End at: 2018-06-06 19:42:08
Local clock offset: -0.09 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-06-06 23:20:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.42 Mbit/s
95th percentile per-packet one-way delay: 86.570 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 274.54 Mbit/s
95th percentile per-packet one-way delay: 102.804 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 135.77 Mbit/s
95th percentile per-packet one-way delay: 64.401 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 78.78 Mbit/s
95th percentile per-packet one-way delay: 68.136 ms
Loss rate: 2.68%
Run 6: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 275.74 Mbit/s)
- Flow 1 egress (mean 274.54 Mbit/s)
- Flow 2 ingress (mean 136.28 Mbit/s)
- Flow 2 egress (mean 135.77 Mbit/s)
- Flow 3 ingress (mean 79.90 Mbit/s)
- Flow 3 egress (mean 78.78 Mbit/s)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 20:04:54
End at: 2018-06-06 20:05:24
Local clock offset: -0.023 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-06-06 23:21:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.04 Mbit/s
95th percentile per-packet one-way delay: 212.682 ms
Loss rate: 5.67%

-- Flow 1:
Average throughput: 274.18 Mbit/s
95th percentile per-packet one-way delay: 268.353 ms
Loss rate: 6.70%

-- Flow 2:
Average throughput: 132.43 Mbit/s
95th percentile per-packet one-way delay: 172.255 ms
Loss rate: 2.92%

-- Flow 3:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 171.502 ms
Loss rate: 3.82%
Run 7: Report of PCC-Expr — Data Link

![Network throughput and packet delay graphs showing data link performance metrics for different flows.](image-url)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 20:27:58
End at: 2018-06-06 20:28:28
Local clock offset: 0.065 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-06 23:22:12
# Datalink statistics
    -- Total of 3 flows:
    Average throughput: 407.17 Mbit/s
    95th percentile per-packet one-way delay: 231.591 ms
    Loss rate: 9.70%
    -- Flow 1:
    Average throughput: 265.59 Mbit/s
    95th percentile per-packet one-way delay: 232.773 ms
    Loss rate: 9.79%
    -- Flow 2:
    Average throughput: 192.07 Mbit/s
    95th percentile per-packet one-way delay: 207.406 ms
    Loss rate: 9.74%
    -- Flow 3:
    Average throughput: 43.40 Mbit/s
    95th percentile per-packet one-way delay: 185.876 ms
    Loss rate: 7.78%
Run 8: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 293.12 Mbit/s)
- Flow 1 egress (mean 265.59 Mbit/s)
- Flow 2 ingress (mean 211.34 Mbit/s)
- Flow 2 egress (mean 192.07 Mbit/s)
- Flow 3 ingress (mean 46.43 Mbit/s)
- Flow 3 egress (mean 43.40 Mbit/s)

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

- Flow 1 (95th percentile 232.77 ms)
- Flow 2 (95th percentile 207.41 ms)
- Flow 3 (95th percentile 185.88 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 20:51:29
End at: 2018-06-06 20:51:59
Local clock offset: 0.063 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-06 23:22:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.10 Mbit/s
95th percentile per-packet one-way delay: 226.851 ms
Loss rate: 5.93%
-- Flow 1:
Average throughput: 207.98 Mbit/s
95th percentile per-packet one-way delay: 188.903 ms
Loss rate: 4.21%
-- Flow 2:
Average throughput: 190.07 Mbit/s
95th percentile per-packet one-way delay: 237.764 ms
Loss rate: 8.60%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 188.192 ms
Loss rate: 6.47%
Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 21:14:11
End at: 2018-06-06 21:14:41
Local clock offset: 0.093 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.11 Mbit/s
95th percentile per-packet one-way delay: 84.350 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 198.75 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 67.044 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 174.37 Mbit/s
95th percentile per-packet one-way delay: 82.100 ms
Loss rate: 1.42%
Run 10: Report of PCC-Expr — Data Link

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

- **Throughput (mbps):**
  - Flow 1 ingress (mean 198.95 Mbit/s)
  - Flow 1 egress (mean 198.75 Mbit/s)
  - Flow 2 ingress (mean 72.66 Mbit/s)
  - Flow 2 egress (mean 72.85 Mbit/s)
  - Flow 3 ingress (mean 174.45 Mbit/s)
  - Flow 3 egress (mean 174.37 Mbit/s)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 87.02 ms)
  - Flow 2 (95th percentile 67.04 ms)
  - Flow 3 (95th percentile 82.10 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 17:49:24  
End at: 2018-06-06 17:49:54  
Local clock offset: -0.047 ms  
Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2018-06-06 23:22:13  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 77.84 Mbit/s  
95th percentile per-packet one-way delay: 63.439 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 43.72 Mbit/s  
95th percentile per-packet one-way delay: 63.304 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 37.51 Mbit/s  
95th percentile per-packet one-way delay: 63.288 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 16.23 Mbit/s  
95th percentile per-packet one-way delay: 63.630 ms  
Loss rate: 0.38%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 18:12:51
End at: 2018-06-06 18:13:21
Local clock offset: -0.018 ms
Remote clock offset: -0.365 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 78.06 Mbit/s
  95th percentile per-packet one-way delay: 63.939 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 50.40 Mbit/s
  95th percentile per-packet one-way delay: 61.931 ms
  Loss rate: 0.61%
-- Flow 2:
  Average throughput: 31.51 Mbit/s
  95th percentile per-packet one-way delay: 63.991 ms
  Loss rate: 0.26%
-- Flow 3:
  Average throughput: 20.59 Mbit/s
  95th percentile per-packet one-way delay: 63.982 ms
  Loss rate: 0.53%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 50.49 Mbit/s)
- Flow 1 egress (mean 50.40 Mbit/s)
- Flow 2 ingress (mean 31.39 Mbit/s)
- Flow 2 egress (mean 31.51 Mbit/s)
- Flow 3 ingress (mean 20.43 Mbit/s)
- Flow 3 egress (mean 20.59 Mbit/s)

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

- Flow 1 (95th percentile 61.93 ms)
- Flow 2 (95th percentile 63.99 ms)
- Flow 3 (95th percentile 63.98 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 18:36:03
End at: 2018-06-06 18:36:33
Local clock offset: -0.018 ms
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.89 Mbit/s
  95th percentile per-packet one-way delay: 63.786 ms
  Loss rate: 0.76%
-- Flow 1:
  Average throughput: 53.06 Mbit/s
  95th percentile per-packet one-way delay: 63.791 ms
  Loss rate: 0.64%
-- Flow 2:
  Average throughput: 40.56 Mbit/s
  95th percentile per-packet one-way delay: 63.778 ms
  Loss rate: 1.15%
-- Flow 3:
  Average throughput: 15.00 Mbit/s
  95th percentile per-packet one-way delay: 63.780 ms
  Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

![Graph](image-url)

*Flow 1 ingress (mean 53.17 Mbit/s)  
Flow 1 egress (mean 53.06 Mbit/s)  
Flow 2 ingress (mean 40.78 Mbit/s)  
Flow 2 egress (mean 40.56 Mbit/s)  
Flow 3 ingress (mean 15.00 Mbit/s)  
Flow 3 egress (mean 15.00 Mbit/s)*

![Graph](image-url)

*Flow 1 (95th percentile 63.79 ms)  
Flow 2 (95th percentile 63.78 ms)  
Flow 3 (95th percentile 63.78 ms)*
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 18:59:24
End at: 2018-06-06 18:59:54
Local clock offset: 0.034 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 72.31 Mbit/s
  95th percentile per-packet one-way delay: 63.610 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 40.26 Mbit/s
  95th percentile per-packet one-way delay: 63.632 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 37.88 Mbit/s
  95th percentile per-packet one-way delay: 63.564 ms
  Loss rate: 1.22%
-- Flow 3:
  Average throughput: 21.47 Mbit/s
  95th percentile per-packet one-way delay: 63.634 ms
  Loss rate: 0.72%
Run 4: Report of QUIC Cubic — Data Link

![Graph of Throughput and Per-packet one-way delay](image-url)
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 19:22:40
End at: 2018-06-06 19:23:10
Local clock offset: -0.054 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 63.388 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 61.553 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 63.448 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 61.629 ms
Loss rate: 0.42%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 19:46:00
End at: 2018-06-06 19:46:30
Local clock offset: -0.031 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 63.560 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 47.14 Mbit/s
95th percentile per-packet one-way delay: 61.616 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 20.72 Mbit/s
95th percentile per-packet one-way delay: 61.568 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 18.75 Mbit/s
95th percentile per-packet one-way delay: 63.956 ms
Loss rate: 5.02%
Run 6: Report of QUIC Cubic — Data Link

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

Throughput vs. Time

- Flow 1 ingress (mean 47.22 Mbit/s)
- Flow 1 egress (mean 47.14 Mbit/s)
- Flow 2 ingress (mean 20.97 Mbit/s)
- Flow 2 egress (mean 20.72 Mbit/s)
- Flow 3 ingress (mean 19.49 Mbit/s)
- Flow 3 egress (mean 18.75 Mbit/s)

Round-Trip Time vs. Time

- Flow 1 (95th percentile 61.62 ms)
- Flow 2 (95th percentile 61.57 ms)
- Flow 3 (95th percentile 63.96 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 20:09:19
End at: 2018-06-06 20:09:49
Local clock offset: -0.042 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 67.12 Mbit/s
  95th percentile per-packet one-way delay: 63.577 ms
  Loss rate: 1.56%
-- Flow 1:
  Average throughput: 46.70 Mbit/s
  95th percentile per-packet one-way delay: 63.560 ms
  Loss rate: 0.68%
-- Flow 2:
  Average throughput: 22.02 Mbit/s
  95th percentile per-packet one-way delay: 63.613 ms
  Loss rate: 1.53%
-- Flow 3:
  Average throughput: 17.67 Mbit/s
  95th percentile per-packet one-way delay: 62.374 ms
  Loss rate: 8.20%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 20:32:19
End at: 2018-06-06 20:32:49
Local clock offset: 0.049 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 66.736 ms
Loss rate: 0.85%

-- Flow 1:
Average throughput: 43.90 Mbit/s
95th percentile per-packet one-way delay: 63.526 ms
Loss rate: 0.62%

-- Flow 2:
Average throughput: 30.80 Mbit/s
95th percentile per-packet one-way delay: 66.785 ms
Loss rate: 0.98%

-- Flow 3:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 63.417 ms
Loss rate: 1.83%
Run 8: Report of QUIC Cubic — Data Link

![Graphs showing throughput and round-trip time over time for different flows.](image)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 43.98 Mbps)
  - Flow 1 egress (mean 43.90 Mbps)
  - Flow 2 ingress (mean 36.90 Mbps)
  - Flow 2 egress (mean 36.80 Mbps)
  - Flow 3 ingress (mean 23.14 Mbps)
  - Flow 3 egress (mean 23.02 Mbps)

- **Round-trip time (ms):**
  - Flow 1 (95th percentile 63.53 ms)
  - Flow 2 (95th percentile 66.78 ms)
  - Flow 3 (95th percentile 63.42 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 20:55:43
End at: 2018-06-06 20:56:13
Local clock offset: 0.067 ms
Remote clock offset: -0.484 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 73.52 Mbit/s
  95th percentile per-packet one-way delay: 67.233 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 53.73 Mbit/s
  95th percentile per-packet one-way delay: 67.230 ms
  Loss rate: 0.63%
-- Flow 2:
  Average throughput: 21.25 Mbit/s
  95th percentile per-packet one-way delay: 67.235 ms
  Loss rate: 1.86%
-- Flow 3:
  Average throughput: 17.35 Mbit/s
  95th percentile per-packet one-way delay: 67.261 ms
  Loss rate: 0.58%
Run 9: Report of QUIC Cubic — Data Link

![Graphs showing network performance metrics for different flows over time.](image)

- **Flow 1 ingress (mean 53.84 Mbit/s)**
- **Flow 1 egress (mean 53.73 Mbit/s)**
- **Flow 2 ingress (mean 21.51 Mbit/s)**
- **Flow 2 egress (mean 21.25 Mbit/s)**
- **Flow 3 ingress (mean 17.23 Mbit/s)**
- **Flow 3 egress (mean 17.35 Mbit/s)**

![Graphs showing packet delay distribution for different flows over time.](image)

- **Flow 1 (95th percentile 67.23 ms)**
- **Flow 2 (95th percentile 67.23 ms)**
- **Flow 3 (95th percentile 67.26 ms)**
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 21:18:26
End at: 2018-06-06 21:18:56
Local clock offset: 0.098 ms
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 67.009 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 66.758 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 67.043 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 67.081 ms
Loss rate: 0.82%
Run 10: Report of QUIC Cubic — Data Link

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

Throughput (Mbps):
- Flow 1 ingress (mean 43.92 Mbps)
- Flow 1 egress (mean 43.78 Mbps)
- Flow 2 ingress (mean 44.16 Mbps)
- Flow 2 egress (mean 43.99 Mbps)
- Flow 3 ingress (mean 15.05 Mbps)
- Flow 3 egress (mean 15.12 Mbps)

Packet delay (ms):
- Flow 1 (95th percentile 66.76 ms)
- Flow 2 (95th percentile 67.04 ms)
- Flow 3 (95th percentile 67.08 ms)
Run 1: Statistics of SCReAM

Start at: 2018-06-06 17:31:16
End at: 2018-06-06 17:31:46
Local clock offset: -0.057 ms
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 63.807 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.792 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.826 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 62.427 ms
  Loss rate: 1.45%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-06-06 17:54:22
End at: 2018-06-06 17:54:52
Local clock offset: -0.068 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.845 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.701 ms
Loss rate: 1.45%
Run 2: Report of SCReAM — Data Link

![Graphs showing throughput and per-packet end-to-end delay over time.](image-url)
Run 3: Statistics of SCReAM

Start at: 2018-06-06 18:17:58
End at: 2018-06-06 18:18:28
Local clock offset: -0.039 ms
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 63.860 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.844 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.884 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.818 ms
  Loss rate: 1.08%
Run 3: Report of SCReAM — Data Link

[Graph showing throughput and packet delay over time for different flows]
Run 4: Statistics of SCReAM

Start at: 2018-06-06 18:41:04
End at: 2018-06-06 18:41:34
Local clock offset: -0.029 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.979 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.021 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.835 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 1.08%
Run 4: Report of SCReAM — Data Link

Graph 1: Throughput (Mbps)
- Blue line: Flow 1 ingress (mean 0.22 Mbps)
- Green line: Flow 1 egress (mean 0.22 Mbps)
- Red line: Flow 2 ingress (mean 0.22 Mbps)
- Purple line: Flow 2 egress (mean 0.22 Mbps)
- Black line: Flow 3 ingress (mean 0.22 Mbps)
- Pink line: Flow 3 egress (mean 0.22 Mbps)

Graph 2: Per-packet round trip delay (ms)
- Blue line: Flow 1 (95th percentile 64.02 ms)
- Green line: Flow 2 (95th percentile 63.84 ms)
- Red line: Flow 3 (95th percentile 63.87 ms)
Run 5: Statistics of SCReAM

Start at: 2018-06-06 19:04:26
End at: 2018-06-06 19:04:56
Local clock offset: -0.015 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.852 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.959 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 1.10%
Run 5: Report of SCReAM — Data Link

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

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

Packet delay for each flow:
- Flow 1 (95th percentile 63.86 ms)
- Flow 2 (95th percentile 61.96 ms)
- Flow 3 (95th percentile 63.91 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-06 19:27:40
End at: 2018-06-06 19:28:10
Local clock offset: -0.089 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 63.694 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 62.184 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.700 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.885 ms
  Loss rate: 1.10%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-06-06 19:50:57
End at: 2018-06-06 19:51:27
Local clock offset: -0.03 ms
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.972 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.978 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.998 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 1.10%
Run 7: Report of SCReAM — Data Link

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

- **Throughput (Mb/s)**
  - Flow 1 ingress (mean 0.22 Mb/s)
  - Flow 1 egress (mean 0.22 Mb/s)
  - Flow 2 ingress (mean 0.22 Mb/s)
  - Flow 2 egress (mean 0.22 Mb/s)
  - Flow 3 ingress (mean 0.22 Mb/s)
  - Flow 3 egress (mean 0.22 Mb/s)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 63.98 ms)
  - Flow 2 (95th percentile 64.00 ms)
  - Flow 3 (95th percentile 63.87 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-06 20:14:18
End at: 2018-06-06 20:14:48
Local clock offset: -0.039 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.867 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.905 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.513 ms
Loss rate: 1.10%
Run 8: Report of SCReAM — Data Link
Run 9: Statistics of SCReAM

Start at: 2018-06-06 20:37:44
End at: 2018-06-06 20:38:14
Local clock offset: 0.015 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.990 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.003 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.951 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.828 ms
Loss rate: 1.11%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-06-06 21:00:39
End at: 2018-06-06 21:01:09
Local clock offset: 0.066 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 66.969 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 66.944 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 66.999 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 66.913 ms
  Loss rate: 1.45%
Run 10: Report of SCReAM — Data Link

![Graph 1: Throughput Analysis](image1)

![Graph 2: Latency Analysis](image2)
Run 1: Statistics of Sprout

Start at: 2018-06-06 17:33:54
End at: 2018-06-06 17:34:24
Local clock offset: -0.033 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.70 Mbit/s
  95th percentile per-packet one-way delay: 64.032 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 1.37 Mbit/s
  95th percentile per-packet one-way delay: 63.970 ms
  Loss rate: 0.15%
-- Flow 2:
  Average throughput: 0.67 Mbit/s
  95th percentile per-packet one-way delay: 63.958 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 2.72 Mbit/s
  95th percentile per-packet one-way delay: 64.101 ms
  Loss rate: 0.47%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-06-06 17:57:03
End at: 2018-06-06 17:57:33
Local clock offset: -0.052 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 63.864 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 63.909 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.78%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 1.10 Mbit/s)
- Flow 1 egress (mean 1.10 Mbit/s)
- Flow 2 ingress (mean 1.08 Mbit/s)
- Flow 2 egress (mean 1.08 Mbit/s)
- Flow 3 ingress (mean 3.39 Mbit/s)
- Flow 3 egress (mean 3.40 Mbit/s)

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

- Flow 1 (95th percentile 63.91 ms)
- Flow 2 (95th percentile 63.73 ms)
- Flow 3 (95th percentile 63.83 ms)
Run 3: Statistics of Sprout

Start at: 2018-06-06 18:20:42
End at: 2018-06-06 18:21:12
Local clock offset: -0.038 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 63.531 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 63.862 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 62.145 ms
Loss rate: 0.19%
Run 3: Report of Sprout — Data Link

![Graph of throughput over time for different flows]

- Flow 1 ingress (mean 0.49 Mbit/s)
- Flow 1 egress (mean 0.48 Mbit/s)
- Flow 2 ingress (mean 1.69 Mbit/s)
- Flow 2 egress (mean 1.68 Mbit/s)
- Flow 3 ingress (mean 2.62 Mbit/s)
- Flow 3 egress (mean 2.64 Mbit/s)

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

- Flow 1 (95th percentile 63.53 ms)
- Flow 2 (95th percentile 63.86 ms)
- Flow 3 (95th percentile 62.15 ms)
Run 4: Statistics of Sprout

Start at: 2018-06-06 18:43:45
End at: 2018-06-06 18:44:15
Local clock offset: -0.01 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 64.139 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 63.759 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 64.597 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.503 ms
Loss rate: 0.03%
Run 5: Statistics of Sprout

Start at: 2018-06-06 19:07:06
End at: 2018-06-06 19:07:36
Local clock offset: -0.008 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 63.936 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 62.194 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 63.980 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 4.08%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-06-06 19:30:21
End at: 2018-06-06 19:30:51
Local clock offset: -0.065 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.795 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 63.732 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 61.694 ms
Loss rate: 0.53%
Run 6: Report of Sprout — Data Link

![Graph showing performance metrics over time]

- **Flow 1 ingress (mean 0.56 Mbit/s)**
- **Flow 1 egress (mean 0.56 Mbit/s)**
- **Flow 2 ingress (mean 0.99 Mbit/s)**
- **Flow 2 egress (mean 1.00 Mbit/s)**
- **Flow 3 ingress (mean 1.33 Mbit/s)**
- **Flow 3 egress (mean 1.34 Mbit/s)**

![Graph showing per-packet delay]

- **Flow 1 (95th percentile 63.80 ms)**
- **Flow 2 (95th percentile 63.73 ms)**
- **Flow 3 (95th percentile 61.69 ms)**
Run 7: Statistics of Sprout

Start at: 2018-06-06 19:53:36
End at: 2018-06-06 19:54:06
Local clock offset: -0.042 ms
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 64.254 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 64.282 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 64.044 ms
Loss rate: 0.18%
Run 7: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.35 Mbit/s)
Flow 1 egress (mean 0.35 Mbit/s)
Flow 2 ingress (mean 0.79 Mbit/s)
Flow 2 egress (mean 0.78 Mbit/s)
Flow 3 ingress (mean 0.69 Mbit/s)
Flow 3 egress (mean 0.70 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 64.20 ms)
Flow 2 (93rd percentile 64.26 ms)
Flow 3 (95th percentile 64.04 ms)
Run 8: Statistics of Sprout

Start at: 2018-06-06 20:16:59
End at: 2018-06-06 20:17:29
Local clock offset: -0.011 ms
Remote clock offset: -0.397 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.43 Mbit/s
  95th percentile per-packet one-way delay: 67.451 ms
  Loss rate: 1.68%
-- Flow 1:
  Average throughput: 0.50 Mbit/s
  95th percentile per-packet one-way delay: 67.514 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 0.96 Mbit/s
  95th percentile per-packet one-way delay: 64.211 ms
  Loss rate: 3.56%
-- Flow 3:
  Average throughput: 0.90 Mbit/s
  95th percentile per-packet one-way delay: 64.023 ms
  Loss rate: 0.28%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-06-06 20:40:26
End at: 2018-06-06 20:40:56
Local clock offset: 0.029 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 67.295 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 67.367 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 67.036 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 67.137 ms
Loss rate: 0.20%
Run 9: Report of Sprout — Data Link

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

- Flow 1 Ingress (mean 1.51 Mbit/s)
- Flow 2 Ingress (mean 0.67 Mbit/s)
- Flow 2 Egress (mean 0.67 Mbit/s)
- Flow 3 Ingress (mean 1.20 Mbit/s)
- Flow 3 Egress (mean 1.21 Mbit/s)

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

- Flow 1 (95th percentile 67.37 ms)
- Flow 2 (95th percentile 67.04 ms)
- Flow 3 (95th percentile 67.14 ms)
Run 10: Statistics of Sprout

Start at: 2018-06-06 21:03:22
End at: 2018-06-06 21:03:52
Local clock offset: 0.087 ms
Remote clock offset: 0.077 ms

# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.58 Mbit/s
  95th percentile per-packet one-way delay: 66.705 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 0.86 Mbit/s
  95th percentile per-packet one-way delay: 66.724 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 0.46 Mbit/s
  95th percentile per-packet one-way delay: 66.681 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 1.24 Mbit/s
  95th percentile per-packet one-way delay: 64.187 ms
  Loss rate: 0.21%
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 17:36:30
End at: 2018-06-06 17:37:00
Local clock offset: -0.006 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-06-06 23:28:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.41 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 112.35 Mbit/s
95th percentile per-packet one-way delay: 63.950 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 182.78 Mbit/s
95th percentile per-packet one-way delay: 64.586 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 153.39 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 0.76%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 17:59:39
End at: 2018-06-06 18:00:09
Local clock offset: -0.084 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-06 23:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 343.98 Mbit/s
95th percentile per-packet one-way delay: 68.359 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 206.96 Mbit/s
95th percentile per-packet one-way delay: 69.686 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 124.44 Mbit/s
95th percentile per-packet one-way delay: 64.837 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 164.87 Mbit/s
95th percentile per-packet one-way delay: 66.443 ms
Loss rate: 1.61%
Run 2: Report of TaoVA-100x — Data Link

![Graphs showing network performance metrics over time.](image-url)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 18:23:18
End at: 2018-06-06 18:23:48
Local clock offset: -0.01 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-06 23:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.36 Mbit/s
95th percentile per-packet one-way delay: 72.339 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 144.74 Mbit/s
95th percentile per-packet one-way delay: 75.584 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 104.85 Mbit/s
95th percentile per-packet one-way delay: 63.829 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: 63.773 ms
Loss rate: 1.49%
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 18:46:22
End at: 2018-06-06 18:46:52
Local clock offset: -0.049 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-06-06 23:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.46 Mbit/s
95th percentile per-packet one-way delay: 77.841 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 106.94 Mbit/s
95th percentile per-packet one-way delay: 63.685 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 181.09 Mbit/s
95th percentile per-packet one-way delay: 83.073 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 185.89 Mbit/s
95th percentile per-packet one-way delay: 78.306 ms
Loss rate: 1.39%
Run 4: Report of TaoVA-100x — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one way delay (ms)
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 19:09:43
End at: 2018-06-06 19:10:13
Local clock offset: ~0.014 ms
Remote clock offset: ~0.152 ms

# Below is generated by plot.py at 2018-06-06 23:31:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.13 Mbit/s
95th percentile per-packet one-way delay: 68.670 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 152.61 Mbit/s
95th percentile per-packet one-way delay: 66.237 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 156.47 Mbit/s
95th percentile per-packet one-way delay: 69.476 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 144.39 Mbit/s
95th percentile per-packet one-way delay: 73.612 ms
Loss rate: 0.49%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 19:32:58
End at: 2018-06-06 19:33:28
Local clock offset: -0.032 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-06-06 23:32:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 340.64 Mbit/s
  95th percentile per-packet one-way delay: 68.353 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 203.18 Mbit/s
  95th percentile per-packet one-way delay: 67.126 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 133.02 Mbit/s
  95th percentile per-packet one-way delay: 63.803 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 149.20 Mbit/s
  95th percentile per-packet one-way delay: 89.736 ms
  Loss rate: 1.35%
Run 6: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 203.12 Mbps)
- Flow 1 egress (mean 203.18 Mbps)
- Flow 2 ingress (mean 133.04 Mbps)
- Flow 2 egress (mean 133.02 Mbps)
- Flow 3 ingress (mean 149.28 Mbps)
- Flow 3 egress (mean 149.20 Mbps)
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 19:56:12
End at: 2018-06-06 19:56:42
Local clock offset: -0.014 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-06-06 23:32:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.13 Mbit/s
95th percentile per-packet one-way delay: 65.580 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 135.81 Mbit/s
95th percentile per-packet one-way delay: 67.288 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 160.05 Mbit/s
95th percentile per-packet one-way delay: 64.985 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 124.08 Mbit/s
95th percentile per-packet one-way delay: 63.873 ms
Loss rate: 1.58%
Run 7: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 135.30 Mbps)
  - Flow 1 egress (mean 135.81 Mbps)
  - Flow 2 ingress (mean 159.91 Mbps)
  - Flow 2 egress (mean 160.05 Mbps)
  - Flow 3 ingress (mean 124.50 Mbps)
  - Flow 3 egress (mean 124.08 Mbps)

- **Per-packet round trip delay (ms):**
  - Flow 1 (95th percentile 67.29 ms)
  - Flow 2 (95th percentile 64.98 ms)
  - Flow 3 (95th percentile 63.87 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 20:19:35
End at: 2018-06-06 20:20:05
Local clock offset: 0.011 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-06 23:32:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.89 Mbit/s
95th percentile per-packet one-way delay: 68.092 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 205.75 Mbit/s
95th percentile per-packet one-way delay: 68.491 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 43.82 Mbit/s
95th percentile per-packet one-way delay: 66.877 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 100.29 Mbit/s
95th percentile per-packet one-way delay: 63.474 ms
Loss rate: 1.15%
Run 8: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 205.72 Mbit/s)
- Flow 1 egress (mean 205.75 Mbit/s)
- Flow 2 ingress (mean 44.11 Mbit/s)
- Flow 2 egress (mean 43.82 Mbit/s)
- Flow 3 ingress (mean 100.14 Mbit/s)
- Flow 3 egress (mean 100.29 Mbit/s)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 20:43:04
End at: 2018-06-06 20:43:34
Local clock offset: 0.05 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-06 23:36:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.37 Mbit/s
95th percentile per-packet one-way delay: 68.420 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 71.83 Mbit/s
95th percentile per-packet one-way delay: 68.409 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 208.11 Mbit/s
95th percentile per-packet one-way delay: 68.548 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 67.086 ms
Loss rate: 1.37%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 21:05:58
End at: 2018-06-06 21:06:28
Local clock offset: 0.096 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-06-06 23:36:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 66.928 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 68.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 66.907 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 63.802 ms
Loss rate: 1.38%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 17:39:15
End at: 2018-06-06 17:39:45
Local clock offset: -0.056 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-06-06 23:36:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 252.34 Mbit/s
95th percentile per-packet one-way delay: 78.541 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 180.04 Mbit/s
95th percentile per-packet one-way delay: 79.737 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 80.43 Mbit/s
95th percentile per-packet one-way delay: 71.331 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 70.196 ms
Loss rate: 1.45%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 18:02:29  
End at: 2018-06-06 18:02:59  
Local clock offset: -0.055 ms  
Remote clock offset: -0.259 ms  

# Below is generated by plot.py at 2018-06-06 23:36:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 236.76 Mbit/s  
95th percentile per-packet one-way delay: 73.132 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 176.30 Mbit/s  
95th percentile per-packet one-way delay: 69.932 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 7.07 Mbit/s  
95th percentile per-packet one-way delay: 68.769 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 169.72 Mbit/s  
95th percentile per-packet one-way delay: 77.519 ms  
Loss rate: 1.44%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 18:25:59
End at: 2018-06-06 18:26:29
Local clock offset: -0.045 ms
Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-06-06 23:36:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.36 Mbit/s
95th percentile per-packet one-way delay: 72.696 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 149.27 Mbit/s
95th percentile per-packet one-way delay: 69.446 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 80.74 Mbit/s
95th percentile per-packet one-way delay: 69.597 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 168.54 Mbit/s
95th percentile per-packet one-way delay: 75.614 ms
Loss rate: 1.45%
Run 3: Report of TCP Vegas — Data Link

![Graph showing throughput and per-packet one-way delay over time for flows 1, 2, and 3.](image)

- **Flow 1 ingress** (mean 149.28 Mbit/s)
- **Flow 1 egress** (mean 149.27 Mbit/s)
- **Flow 2 ingress** (mean 80.73 Mbit/s)
- **Flow 2 egress** (mean 80.74 Mbit/s)
- **Flow 3 ingress** (mean 168.92 Mbit/s)
- **Flow 3 egress** (mean 168.54 Mbit/s)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 18:49:09
End at: 2018-06-06 18:49:39
Local clock offset: 0.04 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-06-06 23:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 275.23 Mbit/s
95th percentile per-packet one-way delay: 78.188 ms
Loss rate: 0.50%

-- Flow 1:
Average throughput: 178.33 Mbit/s
95th percentile per-packet one-way delay: 78.412 ms
Loss rate: 0.50%

-- Flow 2:
Average throughput: 128.13 Mbit/s
95th percentile per-packet one-way delay: 78.156 ms
Loss rate: 0.37%

-- Flow 3:
Average throughput: 35.51 Mbit/s
95th percentile per-packet one-way delay: 70.341 ms
Loss rate: 1.51%
Run 4: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 178.48 Mbit/s)**
- **Flow 1 egress (mean 178.33 Mbit/s)**
- **Flow 2 ingress (mean 127.79 Mbit/s)**
- **Flow 2 egress (mean 128.13 Mbit/s)**
- **Flow 3 ingress (mean 35.66 Mbit/s)**
- **Flow 3 egress (mean 35.51 Mbit/s)**

Per-packet one-way delay (ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 19:12:30
End at: 2018-06-06 19:13:00
Local clock offset: -0.023 ms
Remote clock offset: 0.188 ms

# Below is generated by plot.py at 2018-06-06 23:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 211.07 Mbit/s
95th percentile per-packet one-way delay: 70.639 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 99.20 Mbit/s
95th percentile per-packet one-way delay: 69.255 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 83.52 Mbit/s
95th percentile per-packet one-way delay: 69.872 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 170.88 Mbit/s
95th percentile per-packet one-way delay: 73.100 ms
Loss rate: 1.54%
Run 5: Report of TCP Vegas — Data Link

![Graph of throughput and delay over time for different flows.]
Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 19:35:47
End at: 2018-06-06 19:36:17
Local clock offset: -0.021 ms
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2018-06-06 23:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.76 Mbit/s
95th percentile per-packet one-way delay: 75.693 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 76.254 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 68.308 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 109.56 Mbit/s
95th percentile per-packet one-way delay: 69.636 ms
Loss rate: 1.46%
Run 6: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 180.12 Mbps)
- Flow 1 egress (mean 180.11 Mbps)
- Flow 2 ingress (mean 6.95 Mbps)
- Flow 2 egress (mean 6.90 Mbps)
- Flow 3 ingress (mean 109.76 Mbps)
- Flow 3 egress (mean 109.56 Mbps)

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

- Flow 1 (95th percentile 76.25 ms)
- Flow 2 (95th percentile 68.31 ms)
- Flow 3 (95th percentile 69.64 ms)

255
Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 19:58:57  
End at: 2018-06-06 19:59:27  
Local clock offset: -0.027 ms  
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-06-06 23:38:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.10 Mbit/s  
95th percentile per-packet one-way delay: 76.706 ms  
Loss rate: 0.57%
-- Flow 1:
Average throughput: 183.04 Mbit/s  
95th percentile per-packet one-way delay: 76.422 ms  
Loss rate: 0.45%
-- Flow 2:
Average throughput: 180.46 Mbit/s  
95th percentile per-packet one-way delay: 77.218 ms  
Loss rate: 0.74%
-- Flow 3:
Average throughput: 9.78 Mbit/s  
95th percentile per-packet one-way delay: 70.323 ms  
Loss rate: 1.77%
Run 7: Report of TCP Vegas — Data Link
Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 20:22:19
End at: 2018-06-06 20:22:49
Local clock offset: 0.014 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2018-06-06 23:38:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 64.987 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 64.684 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 66.627 ms
Loss rate: 1.42%
Run 8: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 21.35 Mbit/s)
- Flow 1 egress (mean 21.34 Mbit/s)
- Flow 2 ingress (mean 9.57 Mbit/s)
- Flow 2 egress (mean 9.54 Mbit/s)
- Flow 3 ingress (mean 57.09 Mbit/s)
- Flow 3 egress (mean 57.05 Mbit/s)

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259
Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 20:45:43
End at: 2018-06-06 20:46:13
Local clock offset: 0.074 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-06-06 23:38:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 68.846 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 67.605 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 67.845 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 72.429 ms
Loss rate: 1.32%
Run 9: Report of TCP Vegas — Data Link

![Graphs showing network performance metrics over time.](image-url)
Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 21:08:26
End at: 2018-06-06 21:08:56
Local clock offset: 0.087 ms
Remote clock offset: -0.398 ms

# Below is generated by plot.py at 2018-06-06 23:38:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 147.37 Mbit/s
95th percentile per-packet one-way delay: 67.724 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 67.864 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 76.33 Mbit/s
95th percentile per-packet one-way delay: 68.364 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 107.60 Mbit/s
95th percentile per-packet one-way delay: 65.424 ms
Loss rate: 1.40%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-06-06 17:32:25
End at: 2018-06-06 17:32:55
Local clock offset: -0.048 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-06-06 23:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 287.08 Mbit/s
95th percentile per-packet one-way delay: 240.228 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 223.09 Mbit/s
95th percentile per-packet one-way delay: 245.630 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 168.177 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 65.06 Mbit/s
95th percentile per-packet one-way delay: 196.624 ms
Loss rate: 2.41%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-06-06 17:55:31
End at: 2018-06-06 17:56:01
Local clock offset: -0.07 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2018-06-06 23:42:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.03 Mbit/s
95th percentile per-packet one-way delay: 181.536 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 208.20 Mbit/s
95th percentile per-packet one-way delay: 163.603 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 165.25 Mbit/s
95th percentile per-packet one-way delay: 189.433 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 65.48 Mbit/s
95th percentile per-packet one-way delay: 270.335 ms
Loss rate: 1.25%
Run 2: Report of Verus — Data Link

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

<table>
<thead>
<tr>
<th>Flow 1 ingress (mean 210.32 Mbit/s)</th>
<th>Flow 1 egress (mean 208.20 Mbit/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 2 ingress (mean 164.83 Mbit/s)</td>
<td>Flow 2 egress (mean 165.25 Mbit/s)</td>
</tr>
<tr>
<td>Flow 3 ingress (mean 58.77 Mbit/s)</td>
<td>Flow 3 egress (mean 65.46 Mbit/s)</td>
</tr>
</tbody>
</table>

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

| Flow 1 (95th percentile 163.60 ms) | Flow 2 (95th percentile 189.43 ms) | Flow 3 (95th percentile 270.33 ms) |
Run 3: Statistics of Verus

Start at: 2018-06-06 18:19:07
End at: 2018-06-06 18:19:37
Local clock offset: 0.006 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-06-06 23:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.73 Mbit/s
95th percentile per-packet one-way delay: 174.462 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 217.48 Mbit/s
95th percentile per-packet one-way delay: 148.771 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 172.75 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 119.09 Mbit/s
95th percentile per-packet one-way delay: 271.631 ms
Loss rate: 3.69%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

End at: 2018-06-06 18:42:43  
Local clock offset: -0.039 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-06-06 23:43:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 310.54 Mbit/s  
95th percentile per-packet one-way delay: 144.624 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 174.24 Mbit/s  
95th percentile per-packet one-way delay: 142.385 ms  
Loss rate: 1.23%  
-- Flow 2:  
Average throughput: 115.00 Mbit/s  
95th percentile per-packet one-way delay: 122.818 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 184.81 Mbit/s  
95th percentile per-packet one-way delay: 184.772 ms  
Loss rate: 1.47%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-06 19:05:35
End at: 2018-06-06 19:06:05
Local clock offset: -0.0 ms
Remote clock offset: -0.357 ms

# Below is generated by plot.py at 2018-06-06 23:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.64 Mbit/s
95th percentile per-packet one-way delay: 274.674 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 210.12 Mbit/s
95th percentile per-packet one-way delay: 287.811 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 69.97 Mbit/s
95th percentile per-packet one-way delay: 174.413 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 111.86 Mbit/s
95th percentile per-packet one-way delay: 228.309 ms
Loss rate: 1.72%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

Start at: 2018-06-06 19:28:49
End at: 2018-06-06 19:29:19
Local clock offset: -0.112 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-06-06 23:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.51 Mbit/s
95th percentile per-packet one-way delay: 128.408 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 210.82 Mbit/s
95th percentile per-packet one-way delay: 125.179 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 123.38 Mbit/s
95th percentile per-packet one-way delay: 102.281 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 130.34 Mbit/s
95th percentile per-packet one-way delay: 302.969 ms
Loss rate: 8.22%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-06 19:52:05
End at: 2018-06-06 19:52:36
Local clock offset: -0.034 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-06-06 23:45:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 309.38 Mbit/s
  95th percentile per-packet one-way delay: 171.856 ms
  Loss rate: 2.50%
-- Flow 1:
  Average throughput: 168.24 Mbit/s
  95th percentile per-packet one-way delay: 181.504 ms
  Loss rate: 3.55%
-- Flow 2:
  Average throughput: 163.53 Mbit/s
  95th percentile per-packet one-way delay: 110.477 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 109.47 Mbit/s
  95th percentile per-packet one-way delay: 207.410 ms
  Loss rate: 3.18%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-06-06 20:15:28
End at: 2018-06-06 20:15:58
Local clock offset: -0.031 ms
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2018-06-06 23:45:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 307.13 Mbit/s
  95th percentile per-packet one-way delay: 151.954 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 181.68 Mbit/s
  95th percentile per-packet one-way delay: 139.583 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 142.02 Mbit/s
  95th percentile per-packet one-way delay: 125.792 ms
  Loss rate: 0.90%
-- Flow 3:
  Average throughput: 96.21 Mbit/s
  95th percentile per-packet one-way delay: 310.676 ms
  Loss rate: 1.44%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-06-06 20:38:53
End at: 2018-06-06 20:39:23
Local clock offset: 0.046 ms
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2018-06-06 23:47:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 319.58 Mbit/s
  95th percentile per-packet one-way delay: 146.157 ms
  Loss rate: 1.94%
-- Flow 1:
  Average throughput: 220.27 Mbit/s
  95th percentile per-packet one-way delay: 127.763 ms
  Loss rate: 2.06%
-- Flow 2:
  Average throughput: 119.23 Mbit/s
  95th percentile per-packet one-way delay: 199.910 ms
  Loss rate: 2.08%
-- Flow 3:
  Average throughput: 62.33 Mbit/s
  95th percentile per-packet one-way delay: 148.118 ms
  Loss rate: 0.01%
Run 9: Report of Verus — Data Link
Run 10: Statistics of Verus

Start at: 2018-06-06 21:01:48
End at: 2018-06-06 21:02:18
Local clock offset: 0.065 ms
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-06-06 23:48:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 336.53 Mbit/s
  95th percentile per-packet one-way delay: 175.208 ms
  Loss rate: 1.20%
-- Flow 1:
  Average throughput: 212.23 Mbit/s
  95th percentile per-packet one-way delay: 164.345 ms
  Loss rate: 0.74%
-- Flow 2:
  Average throughput: 135.45 Mbit/s
  95th percentile per-packet one-way delay: 163.163 ms
  Loss rate: 2.08%
-- Flow 3:
  Average throughput: 116.32 Mbit/s
  95th percentile per-packet one-way delay: 197.708 ms
  Loss rate: 1.74%
Run 10: Report of Verus — Data Link

![Graphs showing throughput and packet delay over time for different flows.](image-url)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 17:29:34
End at: 2018-06-06 17:30:04
Local clock offset: 0.002 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-06-06 23:52:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 466.90 Mbit/s
95th percentile per-packet one-way delay: 124.888 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 274.51 Mbit/s
95th percentile per-packet one-way delay: 93.347 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 247.26 Mbit/s
95th percentile per-packet one-way delay: 229.760 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 64.341 ms
Loss rate: 1.50%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 17:52:36
End at: 2018-06-06 17:53:06
Local clock offset: -0.044 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-06 23:53:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.36 Mbit/s
95th percentile per-packet one-way delay: 239.861 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 293.28 Mbit/s
95th percentile per-packet one-way delay: 93.117 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 282.31 Mbit/s
95th percentile per-packet one-way delay: 251.299 ms
Loss rate: 4.78%
-- Flow 3:
Average throughput: 167.01 Mbit/s
95th percentile per-packet one-way delay: 73.281 ms
Loss rate: 1.85%
Run 2: Report of PCC-Vivace — Data Link
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 18:16:09
End at: 2018-06-06 18:16:39
Local clock offset: -0.032 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-06 23:55:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 579.32 Mbit/s
95th percentile per-packet one-way delay: 242.416 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 314.99 Mbit/s
95th percentile per-packet one-way delay: 244.890 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 311.20 Mbit/s
95th percentile per-packet one-way delay: 232.927 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 176.90 Mbit/s
95th percentile per-packet one-way delay: 89.977 ms
Loss rate: 1.74%
Run 3: Report of PCC-Vivace — Data Link

![Graphs showing throughput and per-packet one-way delay for different flows over time.]
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 18:39:24
End at: 2018-06-06 18:39:54
Local clock offset: 0.005 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-06-06 23:55:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.88 Mbit/s
95th percentile per-packet one-way delay: 132.576 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 281.61 Mbit/s
95th percentile per-packet one-way delay: 154.862 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 198.55 Mbit/s
95th percentile per-packet one-way delay: 67.560 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 56.62 Mbit/s
95th percentile per-packet one-way delay: 63.344 ms
Loss rate: 4.72%
Run 4: Report of PCC-Vivace — Data Link

![Graph of Data Link Performance]

- **Flow 1 ingress** (mean 281.83 Mbit/s)
- **Flow 1 egress** (mean 281.61 Mbit/s)
- **Flow 2 ingress** (mean 198.10 Mbit/s)
- **Flow 2 egress** (mean 198.55 Mbit/s)
- **Flow 3 ingress** (mean 58.66 Mbit/s)
- **Flow 3 egress** (mean 56.62 Mbit/s)

![Graph of Packet Delay Performance]

- **Flow 1** (95th percentile 154.86 ms)
- **Flow 2** (95th percentile 67.56 ms)
- **Flow 3** (95th percentile 63.34 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 19:02:42
End at: 2018-06-06 19:03:12
Local clock offset: -0.028 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-06-06 23:55:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.06 Mbit/s
95th percentile per-packet one-way delay: 84.173 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 279.03 Mbit/s
95th percentile per-packet one-way delay: 121.354 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 208.29 Mbit/s
95th percentile per-packet one-way delay: 69.262 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 176.61 Mbit/s
95th percentile per-packet one-way delay: 71.948 ms
Loss rate: 1.65%
Run 5: Report of PCC-Vivace — Data Link

Graph 1: Throughput (Mbps) vs Time (s)
- Flow 1 ingress (mean 279.23 Mbps)
- Flow 1 egress (mean 279.03 Mbps)
- Flow 2 ingress (mean 208.22 Mbps)
- Flow 2 egress (mean 208.29 Mbps)
- Flow 3 ingress (mean 177.29 Mbps)
- Flow 3 egress (mean 176.61 Mbps)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 121.35 ms)
- Flow 2 (95th percentile 69.26 ms)
- Flow 3 (95th percentile 71.95 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 19:25:56
End at: 2018-06-06 19:26:26
Local clock offset: -0.054 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-06 23:55:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.11 Mbit/s
95th percentile per-packet one-way delay: 186.592 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 316.74 Mbit/s
95th percentile per-packet one-way delay: 189.158 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 231.78 Mbit/s
95th percentile per-packet one-way delay: 169.080 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 5.88%
Run 6: Report of PCC-Vivace — Data Link

![Graph showing throughput and per-packet one-way delay over time](image_url)
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 19:49:14
End at: 2018-06-06 19:49:44
Local clock offset: -0.023 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2018-06-06 23:56:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.36 Mbit/s
95th percentile per-packet one-way delay: 158.611 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 292.07 Mbit/s
95th percentile per-packet one-way delay: 194.084 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 255.94 Mbit/s
95th percentile per-packet one-way delay: 71.847 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 64.173 ms
Loss rate: 3.22%
Run 7: Report of PCC-Vivace — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 292.37 Mbps) - Flow 1 egress (mean 292.07 Mbps)
- Flow 2 ingress (mean 236.46 Mbps) - Flow 2 egress (mean 235.94 Mbps)
- Flow 3 ingress (mean 38.67 Mbps) - Flow 3 egress (mean 37.92 Mbps)

**Packet one-way delay (ms):**
- Flow 1 (95th percentile 194.08 ms)
- Flow 2 (95th percentile 111.85 ms)
- Flow 3 (95th percentile 64.17 ms)
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 20:12:35
End at: 2018-06-06 20:13:05
Local clock offset: -0.016 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-06-06 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.12 Mbit/s
95th percentile per-packet one-way delay: 97.413 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 252.89 Mbit/s
95th percentile per-packet one-way delay: 113.950 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 261.72 Mbit/s
95th percentile per-packet one-way delay: 93.524 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 154.47 Mbit/s
95th percentile per-packet one-way delay: 74.487 ms
Loss rate: 1.84%
Run 8: Report of PCC-Vivace — Data Link

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

- Flow 1: Ingress (mean 253.87 Mbit/s), Egress (mean 252.99 Mbit/s)
- Flow 2: Ingress (mean 261.59 Mbit/s), Egress (mean 261.72 Mbit/s)
- Flow 3: Ingress (mean 155.26 Mbit/s), Egress (mean 154.47 Mbit/s)

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

- Flow 1 (95th percentile 113.95 ms)
- Flow 2 (95th percentile 93.52 ms)
- Flow 3 (95th percentile 74.49 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 20:36:04
End at: 2018-06-06 20:36:34
Local clock offset: 0.035 ms
Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-06-06 23:57:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 412.05 Mbit/s
  95th percentile per-packet one-way delay: 79.326 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 259.39 Mbit/s
  95th percentile per-packet one-way delay: 81.914 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 187.95 Mbit/s
  95th percentile per-packet one-way delay: 74.773 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 85.57 Mbit/s
  95th percentile per-packet one-way delay: 67.032 ms
  Loss rate: 1.71%
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 20:58:57
End at: 2018-06-06 20:59:27
Local clock offset: 0.092 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 456.38 Mbit/s
95th percentile per-packet one-way delay: 84.273 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 255.99 Mbit/s
95th percentile per-packet one-way delay: 122.239 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 226.87 Mbit/s
95th percentile per-packet one-way delay: 69.514 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 152.48 Mbit/s
95th percentile per-packet one-way delay: 83.735 ms
Loss rate: 1.97%
Run 10: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress** (mean 255.57 Mbit/s)
- **Flow 1 egress** (mean 255.99 Mbit/s)
- **Flow 2 ingress** (mean 227.47 Mbit/s)
- **Flow 2 egress** (mean 226.87 Mbit/s)
- **Flow 3 ingress** (mean 153.43 Mbit/s)
- **Flow 3 egress** (mean 152.48 Mbit/s)

![Graph showing packet loss over time for different flows.](image-url)

- **Flow 1 (95th percentile 122.24 ms)**
- **Flow 2 (95th percentile 69.51 ms)**
- **Flow 3 (95th percentile 83.73 ms)**
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 17:38:05
End at: 2018-06-06 17:38:35
Local clock offset: -0.057 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.33 Mbit/s
  95th percentile per-packet one-way delay: 63.892 ms
  Loss rate: 1.30%
-- Flow 1:
  Average throughput: 0.93 Mbit/s
  95th percentile per-packet one-way delay: 62.282 ms
  Loss rate: 1.02%
-- Flow 2:
  Average throughput: 0.92 Mbit/s
  95th percentile per-packet one-way delay: 63.944 ms
  Loss rate: 1.06%
-- Flow 3:
  Average throughput: 0.49 Mbit/s
  95th percentile per-packet one-way delay: 63.880 ms
  Loss rate: 2.26%
Run 1: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 0.93 Mbit/s)
- Flow 1 egress (mean 0.93 Mbit/s)
- Flow 2 ingress (mean 0.92 Mbit/s)
- Flow 2 egress (mean 0.92 Mbit/s)
- Flow 3 ingress (mean 0.50 Mbit/s)
- Flow 3 egress (mean 0.49 Mbit/s)
Run 2: Statistics of WebRTC media

Start at: 2018-06-06 18:01:20
End at: 2018-06-06 18:01:50
Local clock offset: -0.038 ms
Remote clock offset: 0.183 ms

# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 63.496 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 63.507 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 61.863 ms
Loss rate: 1.58%
Run 2: Report of WebRTC media — Data Link

![Graph showing throughput over time for different flows with various line styles and colors.]

![Graph showing per-packet one-way delay over time for different flows with various line styles and colors.]

307
Run 3: Statistics of WebRTC media

Start at: 2018-06-06 18:24:50
End at: 2018-06-06 18:25:20
Local clock offset: -0.022 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.77 Mbit/s
  95th percentile per-packet one-way delay: 63.683 ms
  Loss rate: 0.85%
-- Flow 1:
  Average throughput: 2.02 Mbit/s
  95th percentile per-packet one-way delay: 63.700 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 1.26 Mbit/s
  95th percentile per-packet one-way delay: 63.643 ms
  Loss rate: 0.79%
-- Flow 3:
  Average throughput: 0.51 Mbit/s
  95th percentile per-packet one-way delay: 63.630 ms
  Loss rate: 2.42%
Run 3: Report of WebRTC media — Data Link

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

- **Flow 1**
  - Ingress: Mean 2.02 Mbit/s
  - Egress: Mean 2.02 Mbit/s

- **Flow 2**
  - Ingress: Mean 1.27 Mbit/s
  - Egress: Mean 1.26 Mbit/s

- **Flow 3**
  - Ingress: Mean 0.52 Mbit/s
  - Egress: Mean 0.51 Mbit/s

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

- **Flow 1** (95th percentile 63.70 ms)
- **Flow 2** (95th percentile 63.64 ms)
- **Flow 3** (95th percentile 63.63 ms)
Run 4: Statistics of WebRTC media

Start at: 2018-06-06 18:48:00  
End at: 2018-06-06 18:48:30  
Local clock offset: -0.028 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-06-06 23:57:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.82 Mbit/s  
95th percentile per-packet one-way delay: 63.877 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 63.903 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 63.817 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 0.49 Mbit/s  
95th percentile per-packet one-way delay: 63.896 ms  
Loss rate: 1.76%
Run 4: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.06 Mbit/s)
- Flow 1 egress (mean 2.06 Mbit/s)
- Flow 2 ingress (mean 1.29 Mbit/s)
- Flow 2 egress (mean 1.29 Mbit/s)
- Flow 3 ingress (mean 0.50 Mbit/s)
- Flow 3 egress (mean 0.49 Mbit/s)

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

- Flow 1 (95th percentile 63.90 ms)
- Flow 2 (95th percentile 63.82 ms)
- Flow 3 (95th percentile 63.90 ms)

311
Run 5: Statistics of WebRTC media

Start at: 2018-06-06 19:11:21
End at: 2018-06-06 19:11:51
Local clock offset: -0.001 ms
Remote clock offset: 0.207 ms

# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 63.583 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 61.729 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 61.644 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.868 ms
Loss rate: 2.42%
Run 5: Report of WebRTC media — Data Link

**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 2.05 Mbit/s)**
- **Flow 1 egress (mean 2.04 Mbit/s)**
- **Flow 2 ingress (mean 1.28 Mbit/s)**
- **Flow 2 egress (mean 1.26 Mbit/s)**
- **Flow 3 ingress (mean 0.51 Mbit/s)**
- **Flow 3 egress (mean 0.49 Mbit/s)**

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

- **Flow 1 (95th percentile 61.73 ms)**
- **Flow 2 (95th percentile 61.64 ms)**
- **Flow 3 (95th percentile 63.87 ms)**
Run 6: Statistics of WebRTC media

Start at: 2018-06-06 19:34:38
End at: 2018-06-06 19:35:08
Local clock offset: -0.053 ms
Remote clock offset: -0.256 ms

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# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.87 Mbit/s
  95th percentile per-packet one-way delay: 64.024 ms
  Loss rate: 0.82%
-- Flow 1:
  Average throughput: 2.07 Mbit/s
  95th percentile per-packet one-way delay: 64.059 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 1.31 Mbit/s
  95th percentile per-packet one-way delay: 63.834 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 0.51 Mbit/s
  95th percentile per-packet one-way delay: 63.988 ms
  Loss rate: 2.24%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-06-06 19:57:47
End at: 2018-06-06 19:58:18
Local clock offset: -0.015 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-06 23:57:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.71 Mbit/s
  95th percentile per-packet one-way delay: 63.970 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 1.92 Mbit/s
  95th percentile per-packet one-way delay: 63.865 ms
  Loss rate: 0.65%
-- Flow 2:
  Average throughput: 1.30 Mbit/s
  95th percentile per-packet one-way delay: 63.824 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.50 Mbit/s
  95th percentile per-packet one-way delay: 64.105 ms
  Loss rate: 2.32%
Run 7: Report of WebRTC media — Data Link

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

Legend:
- Flow 1 ingress (mean 1.93 Mbit/s)
- Flow 1 egress (mean 1.92 Mbit/s)
- Flow 2 ingress (mean 1.31 Mbit/s)
- Flow 2 egress (mean 1.30 Mbit/s)
- Flow 3 ingress (mean 0.51 Mbit/s)
- Flow 3 egress (mean 0.50 Mbit/s)

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

Packet round trip delay (ms) vs. Time (s)
Run 8: Statistics of WebRTC media

Start at: 2018-06-06 20:21:09
End at: 2018-06-06 20:21:39
Local clock offset: 0.011 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-06 23:57:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 66.893 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 63.595 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 66.958 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.819 ms
Loss rate: 1.64%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

Start at: 2018-06-06 20:44:34
End at: 2018-06-06 20:45:04
Local clock offset: 0.087 ms
Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2018-06-06 23:57:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 66.723 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 66.527 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 66.690 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 66.791 ms
Loss rate: 2.12%
Run 9: Report of WebRTC media — Data Link

![Throughput Graph](image1)

![Packet Delay Graph](image2)
Run 10: Statistics of WebRTC media

Start at: 2018-06-06 21:07:17
End at: 2018-06-06 21:07:47
Local clock offset: 0.083 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-06 23:57:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.77 Mbit/s
  95th percentile per-packet one-way delay: 66.850 ms
  Loss rate: 0.73%
-- Flow 1:
  Average throughput: 2.04 Mbit/s
  95th percentile per-packet one-way delay: 66.887 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 1.25 Mbit/s
  95th percentile per-packet one-way delay: 66.806 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.51 Mbit/s
  95th percentile per-packet one-way delay: 63.489 ms
  Loss rate: 2.00%
Run 10: Report of WebRTC media — Data Link

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

- **Throughput (MB/s):**
  - Flow 1 ingress (mean 2.04 MB/s)
  - Flow 1 egress (mean 2.04 MB/s)
  - Flow 2 ingress (mean 1.25 MB/s)
  - Flow 2 egress (mean 1.25 MB/s)
  - Flow 3 ingress (mean 0.51 MB/s)
  - Flow 3 egress (mean 0.51 MB/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 66.89 ms)
  - Flow 2 (95th percentile 66.81 ms)
  - Flow 3 (95th percentile 63.49 ms)