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 @ 227fdf9a3757f17b88537ccce0d5743a33037a3d2
third_party/fillp @ d47f4fa1b45a5e3c0537115c5a28436dbd4834
third_party/genericCC @ c7966e494a929986a0a5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4df0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179e90605e6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d6d18b623c091a55feca872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08f24eb2df974ab
third_party/proto-quic @ 77961f1a82733a8b421f81430c978f3c0f42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b3d
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 83869982f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2af86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0c29061a41b6f9de4735770d143a1fa2851
test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
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<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<td>Indigo</td>
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<td>196.63</td>
<td>166.13</td>
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<tr>
<td>PCC-Allegro</td>
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<td>553.72</td>
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<td>PCC-Expr</td>
<td>10</td>
<td>206.36</td>
<td>155.93</td>
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<tr>
<td>QUIC Cubic</td>
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<td>SCReAM</td>
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<td>0.22</td>
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<td>Sprout</td>
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<td>100.66</td>
<td>101.96</td>
<td>116.78</td>
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<tr>
<td>TCP Vegas</td>
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<td>105.68</td>
<td>61.43</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>225.23</td>
<td>164.09</td>
<td>108.66</td>
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<tr>
<td>PCC-Vivace</td>
<td>10</td>
<td>334.86</td>
<td>266.56</td>
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</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>2.02</td>
<td>1.32</td>
<td>0.55</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-07 16:38:30
End at: 2018-06-07 16:39:00
Local clock offset: -0.238 ms
Remote clock offset: -0.707 ms

# Below is generated by plot.py at 2018-06-07 20:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.98 Mbit/s
95th percentile per-packet one-way delay: 76.868 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 205.47 Mbit/s
95th percentile per-packet one-way delay: 75.798 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 203.31 Mbit/s
95th percentile per-packet one-way delay: 76.797 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 188.72 Mbit/s
95th percentile per-packet one-way delay: 78.562 ms
Loss rate: 1.18%
Run 1: Report of TCP BBR — Data Link

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

Legend:
- Flow 1 ingress (mean 205.62 Mbit/s)
- Flow 1 egress (mean 205.47 Mbit/s)
- Flow 2 ingress (mean 203.41 Mbit/s)
- Flow 2 egress (mean 203.31 Mbit/s)
- Flow 3 ingress (mean 189.03 Mbit/s)
- Flow 3 egress (mean 188.72 Mbit/s)
Run 2: Statistics of TCP BBR

Start at: 2018-06-07 17:00:56
End at: 2018-06-07 17:01:26
Local clock offset: -0.084 ms
Remote clock offset: -0.508 ms

# Below is generated by plot.py at 2018-06-07 20:40:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.17 Mbit/s
95th percentile per-packet one-way delay: 72.419 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 208.24 Mbit/s
95th percentile per-packet one-way delay: 71.398 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 204.97 Mbit/s
95th percentile per-packet one-way delay: 72.478 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 198.99 Mbit/s
95th percentile per-packet one-way delay: 73.699 ms
Loss rate: 1.29%
Run 2: Report of TCP BBR — Data Link

![Graph showing throughput and packet delay over time.](image-url)
Run 3: Statistics of TCP BBR

Start at: 2018-06-07 17:23:48
End at: 2018-06-07 17:24:18
Local clock offset: 0.044 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-07 20:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.87 Mbit/s
95th percentile per-packet one-way delay: 65.626 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 213.86 Mbit/s
95th percentile per-packet one-way delay: 64.660 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 213.79 Mbit/s
95th percentile per-packet one-way delay: 65.652 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 208.32 Mbit/s
95th percentile per-packet one-way delay: 66.853 ms
Loss rate: 1.09%
Run 3: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 213.89 Mbit/s)
- Flow 1 egress (mean 213.86 Mbit/s)
- Flow 2 ingress (mean 213.81 Mbit/s)
- Flow 2 egress (mean 213.79 Mbit/s)
- Flow 3 ingress (mean 208.50 Mbit/s)
- Flow 3 egress (mean 208.32 Mbit/s)
Run 4: Statistics of TCP BBR

Start at: 2018-06-07 17:46:34
End at: 2018-06-07 17:47:04
Local clock offset: 0.372 ms
Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2018-06-07 20:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.84 Mbit/s
95th percentile per-packet one-way delay: 65.735 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 220.59 Mbit/s
95th percentile per-packet one-way delay: 64.939 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 204.46 Mbit/s
95th percentile per-packet one-way delay: 65.991 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 200.83 Mbit/s
95th percentile per-packet one-way delay: 66.926 ms
Loss rate: 1.13%
Run 4: Report of TCP BBR — Data Link

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

- **Throughput**
  - Flow 1 ingress (mean 220.57 Mbit/s)
  - Flow 1 egress (mean 220.59 Mbit/s)
  - Flow 2 ingress (mean 204.52 Mbit/s)
  - Flow 2 egress (mean 204.46 Mbit/s)
  - Flow 3 ingress (mean 201.20 Mbit/s)
  - Flow 3 egress (mean 200.83 Mbit/s)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 64.94 ms)
  - Flow 2 (95th percentile 65.99 ms)
  - Flow 3 (95th percentile 66.93 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-06-07 18:09:39
End at: 2018-06-07 18:10:09
Local clock offset: 0.108 ms
Remote clock offset: 0.605 ms

# Below is generated by plot.py at 2018-06-07 20:40:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.29 Mbit/s
95th percentile per-packet one-way delay: 71.078 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 214.72 Mbit/s
95th percentile per-packet one-way delay: 70.027 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 208.30 Mbit/s
95th percentile per-packet one-way delay: 71.367 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 203.45 Mbit/s
95th percentile per-packet one-way delay: 72.530 ms
Loss rate: 1.19%
Run 5: Report of TCP BBR — Data Link

[Graphs showing throughput and packet one-way delay]

Flow 1 ingress (mean 214.88 Mbit/s)
Flow 1 egress (mean 214.72 Mbit/s)
Flow 2 ingress (mean 208.44 Mbit/s)
Flow 2 egress (mean 208.36 Mbit/s)
Flow 3 ingress (mean 203.81 Mbit/s)
Flow 3 egress (mean 203.45 Mbit/s)
Run 6: Statistics of TCP BBR

Start at: 2018-06-07 18:32:26
End at: 2018-06-07 18:32:56
Local clock offset: ~0.16 ms
Remote clock offset: 0.752 ms

# Below is generated by plot.py at 2018-06-07 20:40:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 427.54 Mbit/s
95th percentile per-packet one-way delay: 64.154 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 219.63 Mbit/s
95th percentile per-packet one-way delay: 60.384 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 214.06 Mbit/s
95th percentile per-packet one-way delay: 64.618 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 198.50 Mbit/s
95th percentile per-packet one-way delay: 70.601 ms
Loss rate: 1.16%
Run 6: Report of TCP BBR — Data Link

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

End at: 2018-06-07 18:56:01
Local clock offset: 0.15 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2018-06-07 20:40:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 427.28 Mbit/s
  95th percentile per-packet one-way delay: 66.043 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 219.51 Mbit/s
  95th percentile per-packet one-way delay: 64.739 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 213.02 Mbit/s
  95th percentile per-packet one-way delay: 65.509 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 200.30 Mbit/s
  95th percentile per-packet one-way delay: 67.630 ms
  Loss rate: 1.24%
Run 7: Report of TCP BBR — Data Link

### Throughput (Mbps)

- **Flow 1 ingress (mean 219.62 Mbps)**
- **Flow 1 egress (mean 219.51 Mbps)**
- **Flow 2 ingress (mean 213.18 Mbps)**
- **Flow 2 egress (mean 213.02 Mbps)**
- **Flow 3 ingress (mean 200.76 Mbps)**
- **Flow 3 egress (mean 200.30 Mbps)**

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

- **Flow 1 (95th percentile 64.74 ms)**
- **Flow 2 (95th percentile 65.51 ms)**
- **Flow 3 (95th percentile 67.63 ms)**
Run 8: Statistics of TCP BBR

Start at: 2018-06-07 19:18:42
End at: 2018-06-07 19:19:12
Local clock offset: -0.37 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-06-07 20:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.49 Mbit/s
95th percentile per-packet one-way delay: 64.798 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 220.18 Mbit/s
95th percentile per-packet one-way delay: 63.398 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 215.60 Mbit/s
95th percentile per-packet one-way delay: 64.740 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 206.07 Mbit/s
95th percentile per-packet one-way delay: 66.619 ms
Loss rate: 1.19%
Run 8: Report of TCP BBR — Data Link

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

Legend:
- Flow 1 ingress (mean 220.22 Mbit/s)
- Flow 1 egress (mean 220.18 Mbit/s)
- Flow 2 ingress (mean 215.68 Mbit/s)
- Flow 2 egress (mean 215.66 Mbit/s)
- Flow 3 ingress (mean 206.57 Mbit/s)
- Flow 3 egress (mean 206.07 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 63.40 ms)
- Flow 2 (95th percentile 64.74 ms)
- Flow 3 (95th percentile 66.62 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-07 19:41:03
End at: 2018-06-07 19:41:33
Local clock offset: -0.006 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-06-07 20:46:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 417.42 Mbit/s
95th percentile per-packet one-way delay: 70.904 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 216.64 Mbit/s
95th percentile per-packet one-way delay: 68.845 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 207.55 Mbit/s
95th percentile per-packet one-way delay: 68.732 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 189.80 Mbit/s
95th percentile per-packet one-way delay: 73.676 ms
Loss rate: 1.29%
Run 10: Statistics of TCP BBR

Start at: 2018-06-07 20:03:33
End at: 2018-06-07 20:04:03
Local clock offset: -0.372 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-06-07 20:46:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.67 Mbit/s
95th percentile per-packet one-way delay: 67.867 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 214.21 Mbit/s
95th percentile per-packet one-way delay: 65.860 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 213.02 Mbit/s
95th percentile per-packet one-way delay: 68.146 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 209.02 Mbit/s
95th percentile per-packet one-way delay: 71.005 ms
Loss rate: 1.25%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2018-06-07 16:41:58
End at: 2018-06-07 16:42:28
Local clock offset: -0.227 ms
Remote clock offset: -1.135 ms

# Below is generated by plot.py at 2018-06-07 20:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.44 Mbit/s
95th percentile per-packet one-way delay: 56.820 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 141.82 Mbit/s
95th percentile per-packet one-way delay: 58.299 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 144.21 Mbit/s
95th percentile per-packet one-way delay: 55.446 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 102.25 Mbit/s
95th percentile per-packet one-way delay: 55.473 ms
Loss rate: 1.91%
Run 1: Report of Copa — Data Link

\[ \text{Time (s)} \]

- Flow 1 ingress (mean 141.51 Mbit/s)
- Flow 1 egress (mean 141.82 Mbit/s)
- Flow 2 ingress (mean 144.43 Mbit/s)
- Flow 2 egress (mean 144.21 Mbit/s)
- Flow 3 ingress (mean 103.14 Mbit/s)
- Flow 3 egress (mean 102.25 Mbit/s)

\[ \text{Throughput (Mbit/s)} \]

\[ \text{Per packet one way delay (ms)} \]

- Flow 1 (95th percentile 58.30 ms)
- Flow 2 (95th percentile 55.45 ms)
- Flow 3 (95th percentile 55.47 ms)
Run 2: Statistics of Copa

Start at: 2018-06-07 17:04:21
End at: 2018-06-07 17:04:51
Local clock offset: -0.246 ms
Remote clock offset: -0.378 ms

# Below is generated by plot.py at 2018-06-07 20:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 221.02 Mbit/s
95th percentile per-packet one-way delay: 54.203 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 85.46 Mbit/s
95th percentile per-packet one-way delay: 53.931 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 56.300 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 1.18%
Run 2: Report of Copa — Data Link

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

- Flow 1 ingress (mean 85.67 Mbit/s) vs. Flow 1 egress (mean 85.46 Mbit/s)
- Flow 2 ingress (mean 179.79 Mbit/s) vs. Flow 2 egress (mean 180.11 Mbit/s)
- Flow 3 ingress (mean 47.85 Mbit/s) vs. Flow 3 egress (mean 47.79 Mbit/s)

![Graphs showing per-packet one-way delay.]

- Flow 1 (95th percentile 53.93 ms) vs. Flow 2 (95th percentile 56.30 ms)
- Flow 3 (95th percentile 53.97 ms)
Run 3: Statistics of Copa

End at: 2018-06-07 17:27:43
Local clock offset: 0.013 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-06-07 20:48:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.12 Mbit/s
95th percentile per-packet one-way delay: 57.058 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 191.66 Mbit/s
95th percentile per-packet one-way delay: 55.391 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 92.55 Mbit/s
95th percentile per-packet one-way delay: 63.156 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 0.85%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-07 17:50:02
End at: 2018-06-07 17:50:32
Local clock offset: 0.122 ms
Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2018-06-07 20:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.38 Mbit/s
95th percentile per-packet one-way delay: 54.931 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 147.58 Mbit/s
95th percentile per-packet one-way delay: 54.498 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 227.04 Mbit/s
95th percentile per-packet one-way delay: 56.807 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 53.826 ms
Loss rate: 1.43%
Run 4: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 147.21 Mbit/s)
- Flow 1 egress (mean 147.58 Mbit/s)
- Flow 2 ingress (mean 227.23 Mbit/s)
- Flow 2 egress (mean 227.04 Mbit/s)
- Flow 3 ingress (mean 54.49 Mbit/s)
- Flow 3 egress (mean 54.18 Mbit/s)

Each graph represents the throughput and packet delay over time for the respective flows.
Run 5: Statistics of Copa

Start at: 2018-06-07 18:13:08
End at: 2018-06-07 18:13:38
Local clock offset: -0.113 ms
Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2018-06-07 20:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.85 Mbit/s
95th percentile per-packet one-way delay: 54.621 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 54.005 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 99.07 Mbit/s
95th percentile per-packet one-way delay: 56.545 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 30.05 Mbit/s
95th percentile per-packet one-way delay: 54.105 ms
Loss rate: 1.24%
Run 5: Report of Copa — Data Link

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

- **Throughput (Mbps)**: The graph displays the throughput (in Mbps) over time, with different lines representing each flow. The legends indicate the mean throughput for each flow (e.g., Flow 1 ingress mean 97.64 Mbps, Flow 1 egress mean 97.04 Mbps).

- **Per-packet one-way delay (ms)**: The second graph shows the per-packet one-way delay (in ms) over time, with similar line representations for each flow. The legends specify the 95th percentile delay for each flow (e.g., Flow 1 95th percentile 54.01 ms, Flow 2 95th percentile 56.55 ms, Flow 3 95th percentile 54.10 ms).
Run 6: Statistics of Copa

Start at: 2018-06-07 18:35:51
End at: 2018-06-07 18:36:21
Local clock offset: -0.07 ms
Remote clock offset: 0.371 ms

# Below is generated by plot.py at 2018-06-07 20:49:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 288.62 Mbit/s
  95th percentile per-packet one-way delay: 55.804 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 166.15 Mbit/s
  95th percentile per-packet one-way delay: 57.103 ms
  Loss rate: 0.60%
-- Flow 2:
  Average throughput: 137.92 Mbit/s
  95th percentile per-packet one-way delay: 53.462 ms
  Loss rate: 0.18%
-- Flow 3:
  Average throughput: 93.16 Mbit/s
  95th percentile per-packet one-way delay: 58.087 ms
  Loss rate: 0.59%
Run 6: Report of Copa — Data Link

![Graph showing data link throughput and per-packet one-way delay](image-url)
Run 7: Statistics of Copa

Start at: 2018-06-07 18:59:00
End at: 2018-06-07 18:59:30
Local clock offset: 0.084 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-06-07 20:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.56 Mbit/s
95th percentile per-packet one-way delay: 61.363 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 282.82 Mbit/s
95th percentile per-packet one-way delay: 64.524 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 53.75 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 51.55 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 1.31%
Run 7: Report of Copa — Data Link

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

Flow 1 ingress (mean 282.27 Mbit/s) • Flow 1 egress (mean 282.62 Mbit/s)
Flow 2 ingress (mean 53.64 Mbit/s) • Flow 2 egress (mean 53.75 Mbit/s)
Flow 3 ingress (mean 51.73 Mbit/s) • Flow 3 egress (mean 51.55 Mbit/s)
Run 8: Statistics of Copa

Local clock offset: 0.175 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-06-07 20:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.36 Mbit/s
95th percentile per-packet one-way delay: 62.353 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 55.846 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 177.21 Mbit/s
95th percentile per-packet one-way delay: 65.708 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 151.59 Mbit/s
95th percentile per-packet one-way delay: 54.997 ms
Loss rate: 1.57%
Run 8: Report of Copa — Data Link

Throughput (Mbps):

<table>
<thead>
<tr>
<th>Flow</th>
<th>Ingress (mean)</th>
<th>Egress (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 1</td>
<td>88.39 Mbps</td>
<td>88.48 Mbps</td>
</tr>
<tr>
<td>Flow 2</td>
<td>176.54 Mbps</td>
<td>177.21 Mbps</td>
</tr>
<tr>
<td>Flow 3</td>
<td>152.44 Mbps</td>
<td>151.59 Mbps</td>
</tr>
</tbody>
</table>

Per-packet one-way delay (ms):

<table>
<thead>
<tr>
<th>Flow</th>
<th>95th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 1</td>
<td>55.85 ms</td>
</tr>
<tr>
<td>Flow 2</td>
<td>65.71 ms</td>
</tr>
<tr>
<td>Flow 3</td>
<td>55.00 ms</td>
</tr>
</tbody>
</table>
Run 9: Statistics of Copa

Start at: 2018-06-07 19:44:29
End at: 2018-06-07 19:44:59
Local clock offset: 0.163 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-06-07 20:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.58 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 53.945 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 89.81 Mbit/s
95th percentile per-packet one-way delay: 53.970 ms
Loss rate: 2.81%
Run 9: Report of Copa — Data Link
Run 10: Statistics of Copa

Start at: 2018-06-07 20:07:04
End at: 2018-06-07 20:07:34
Local clock offset: -0.415 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.96 Mbit/s
95th percentile per-packet one-way delay: 60.340 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 55.992 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 168.66 Mbit/s
95th percentile per-packet one-way delay: 65.327 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 0.64%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 16:32:54
End at: 2018-06-07 16:33:24
Local clock offset: 0.189 ms
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 252.47 Mbit/s
   95th percentile per-packet one-way delay: 51.982 ms
   Loss rate: 0.58%
-- Flow 1:
   Average throughput: 165.84 Mbit/s
   95th percentile per-packet one-way delay: 51.825 ms
   Loss rate: 0.47%
-- Flow 2:
   Average throughput: 127.71 Mbit/s
   95th percentile per-packet one-way delay: 52.243 ms
   Loss rate: 0.72%
-- Flow 3:
   Average throughput: 5.23 Mbit/s
   95th percentile per-packet one-way delay: 51.927 ms
   Loss rate: 4.19%
Run 1: Report of TCP Cubic — Data Link

![Graph showing throughput and delay for different flows]

- Flow 1 ingress (mean 166.03 Mbit/s)
- Flow 1 egress (mean 165.84 Mbit/s)
- Flow 2 ingress (mean 127.97 Mbit/s)
- Flow 2 egress (mean 127.71 Mbit/s)
- Flow 3 ingress (mean 5.41 Mbit/s)
- Flow 3 egress (mean 5.23 Mbit/s)

- Flow 1 (95th percentile 51.83 ms)
- Flow 2 (95th percentile 52.24 ms)
- Flow 3 (95th percentile 51.93 ms)
Run 2: Statistics of TCP Cubic

End at: 2018-06-07 16:56:08
Local clock offset: -0.01 ms
Remote clock offset: -0.605 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 271.31 Mbit/s
95th percentile per-packet one-way delay: 54.839 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 147.43 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 138.29 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 56.171 ms
Loss rate: 1.19%
Run 2: Report of TCP Cubic — Data Link

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

Flow 1 ingress (mean 147.43 Mbit/s) - Flow 1 egress (mean 147.43 Mbit/s)
Flow 2 ingress (mean 138.50 Mbit/s) - Flow 2 egress (mean 138.29 Mbit/s)
Flow 3 ingress (mean 97.13 Mbit/s) - Flow 3 egress (mean 97.02 Mbit/s)

Flow 1 (95th percentile 54.13 ms) - Flow 2 (95th percentile 54.94 ms) - Flow 3 (95th percentile 56.17 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 17:18:02
End at: 2018-06-07 17:18:32
Local clock offset: -0.099 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2018-06-07 20:56:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.54 Mbit/s
95th percentile per-packet one-way delay: 56.680 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 163.41 Mbit/s
95th percentile per-packet one-way delay: 56.229 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 50.80 Mbit/s
95th percentile per-packet one-way delay: 57.850 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 122.46 Mbit/s
95th percentile per-packet one-way delay: 54.951 ms
Loss rate: 1.21%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 17:41:07
End at: 2018-06-07 17:41:37
Local clock offset: 0.064 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2018-06-07 20:56:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 361.48 Mbit/s
  95th percentile per-packet one-way delay: 59.403 ms
  Loss rate: 0.23%
-- Flow 1:
  Average throughput: 218.77 Mbit/s
  95th percentile per-packet one-way delay: 57.855 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 212.29 Mbit/s
  95th percentile per-packet one-way delay: 60.687 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 4.91 Mbit/s
  95th percentile per-packet one-way delay: 54.795 ms
  Loss rate: 2.42%
Run 4: Report of TCP Cubic — Data Link

![Graph of network traffic and delay](image_url)

- Flow 1 ingress (mean 218.47 Mbps)
- Flow 1 egress (mean 218.77 Mbps)
- Flow 2 ingress (mean 211.67 Mbps)
- Flow 2 egress (mean 212.29 Mbps)
- Flow 3 ingress (mean 4.98 Mbps)
- Flow 3 egress (mean 4.91 Mbps)

![Graph of packet delay](image_url)

- Flow 1 (95th percentile 57.85 ms)
- Flow 2 (95th percentile 60.69 ms)
- Flow 3 (95th percentile 54.80 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 18:04:09
End at: 2018-06-07 18:04:39
Local clock offset: 0.059 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2018-06-07 20:56:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.91 Mbit/s
95th percentile per-packet one-way delay: 53.533 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 169.08 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 53.02 Mbit/s
95th percentile per-packet one-way delay: 54.243 ms
Loss rate: 2.23%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 52.153 ms
Loss rate: 4.12%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 18:26:44
End at: 2018-06-07 18:27:14
Local clock offset: -0.528 ms
Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2018-06-07 20:56:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 56.122 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 157.59 Mbit/s
95th percentile per-packet one-way delay: 56.128 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 52.19 Mbit/s
95th percentile per-packet one-way delay: 55.901 ms
Loss rate: 2.33%
-- Flow 3:
Average throughput: 104.57 Mbit/s
95th percentile per-packet one-way delay: 56.198 ms
Loss rate: 1.13%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-06-07 18:49:40
End at: 2018-06-07 18:50:10
Local clock offset: -0.359 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-06-07 20:58:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.84 Mbit/s
95th percentile per-packet one-way delay: 57.489 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 176.22 Mbit/s
95th percentile per-packet one-way delay: 56.320 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 120.45 Mbit/s
95th percentile per-packet one-way delay: 55.806 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 193.23 Mbit/s
95th percentile per-packet one-way delay: 59.367 ms
Loss rate: 0.49%
Run 7: Report of TCP Cubic — Data Link
Run 8: Statistics of TCP Cubic

End at: 2018-06-07 19:13:40
Local clock offset: -0.308 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-06-07 20:58:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.98 Mbit/s
95th percentile per-packet one-way delay: 55.668 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 155.26 Mbit/s
95th percentile per-packet one-way delay: 56.129 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 122.25 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 123.29 Mbit/s
95th percentile per-packet one-way delay: 55.300 ms
Loss rate: 1.29%
Run 8: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time]

- **Throughput (Mbps)**: The graph shows the throughput over time for three different flows. The y-axis represents the throughput in Mbps, and the x-axis represents time in seconds.
- **Packet Delay (ms)**: The lower graph indicates the packet delay for the same flows. The y-axis shows the delay in milliseconds, and the x-axis shows time in seconds.

Legend:
- Flow 1 ingress (mean 155.59 Mbps)
- Flow 1 egress (mean 155.26 Mbps)
- Flow 2 ingress (mean 122.50 Mbps)
- Flow 2 egress (mean 122.25 Mbps)
- Flow 3 ingress (mean 123.60 Mbps)
- Flow 3 egress (mean 123.29 Mbps)

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Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 19:35:48
End at: 2018-06-07 19:36:18
Local clock offset: -0.04 ms
Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2018-06-07 20:58:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 247.14 Mbit/s
  95th percentile per-packet one-way delay: 56.174 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 154.73 Mbit/s
  95th percentile per-packet one-way delay: 56.015 ms
  Loss rate: 0.22%
-- Flow 2:
  Average throughput: 136.33 Mbit/s
  95th percentile per-packet one-way delay: 56.373 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 5.31 Mbit/s
  95th percentile per-packet one-way delay: 56.064 ms
  Loss rate: 4.18%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 19:58:14
End at: 2018-06-07 19:58:44
Local clock offset: -0.084 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2018-06-07 20:58:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 233.86 Mbit/s
95th percentile per-packet one-way delay: 52.557 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 157.14 Mbit/s
95th percentile per-packet one-way delay: 52.649 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 112.85 Mbit/s
95th percentile per-packet one-way delay: 52.297 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 3.88%
Run 10: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 157.41 Mbit/s)**
- **Flow 1 egress (mean 157.14 Mbit/s)**
- **Flow 2 ingress (mean 113.16 Mbit/s)**
- **Flow 2 egress (mean 112.85 Mbit/s)**
- **Flow 3 ingress (mean 5.25 Mbit/s)**
- **Flow 3 egress (mean 5.10 Mbit/s)**

![Graph 2: Per-Packet End-to-End Delay](image2)

- **Flow 1 (95th percentile 52.65 ms)**
- **Flow 2 (95th percentile 52.30 ms)**
- **Flow 3 (95th percentile 53.80 ms)**

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Run 1: Statistics of FillP

End at: 2018-06-07 16:40:28
Local clock offset: 0.071 ms
Remote clock offset: -0.992 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1298.18 Mbit/s
  95th percentile per-packet one-way delay: 147.046 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 663.70 Mbit/s
  95th percentile per-packet one-way delay: 152.469 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 682.72 Mbit/s
  95th percentile per-packet one-way delay: 141.899 ms
  Loss rate: 0.88%
-- Flow 3:
  Average throughput: 549.33 Mbit/s
  95th percentile per-packet one-way delay: 55.138 ms
  Loss rate: 1.21%
Run 1: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)](image1)
- Flow 1 Ingress (mean 663.45 Mbps)
- Flow 1 Egress (mean 663.70 Mbps)
- Flow 2 Ingress (mean 685.30 Mbps)
- Flow 2 Egress (mean 682.72 Mbps)
- Flow 3 Ingress (mean 550.08 Mbps)
- Flow 3 Egress (mean 549.33 Mbps)

![Graph 2: Per-packet one-way delay (ms)](image2)
- Flow 1 (95th percentile 152.47 ms)
- Flow 2 (95th percentile 141.90 ms)
- Flow 3 (95th percentile 55.14 ms)
Run 2: Statistics of FillP

Start at: 2018-06-07 17:02:24
End at: 2018-06-07 17:02:54
Local clock offset: 0.028 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1205.25 Mbit/s
95th percentile per-packet one-way delay: 118.906 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 686.94 Mbit/s
95th percentile per-packet one-way delay: 120.425 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 523.38 Mbit/s
95th percentile per-packet one-way delay: 118.584 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 520.04 Mbit/s
95th percentile per-packet one-way delay: 114.373 ms
Loss rate: 2.05%
Run 2: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 695.10 Mbps)
- Flow 1 Egress (mean 686.94 Mbps)
- Flow 2 Ingress (mean 524.57 Mbps)
- Flow 2 Egress (mean 523.38 Mbps)
- Flow 3 Ingress (mean 525.22 Mbps)
- Flow 3 Egress (mean 520.04 Mbps)

![Graph 2: Packet per time vs delay (ms) vs Time (s)]

- Flow 1 (95th percentile 120.42 ms)
- Flow 2 (95th percentile 118.58 ms)
- Flow 3 (95th percentile 114.37 ms)
Run 3: Statistics of FillP

Start at: 2018-06-07 17:25:16
End at: 2018-06-07 17:25:46
Local clock offset: -0.065 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1190.26 Mbit/s
  95th percentile per-packet one-way delay: 176.004 ms
  Loss rate: 1.42%
-- Flow 1:
  Average throughput: 698.15 Mbit/s
  95th percentile per-packet one-way delay: 118.607 ms
  Loss rate: 1.37%
-- Flow 2:
  Average throughput: 562.84 Mbit/s
  95th percentile per-packet one-way delay: 180.048 ms
  Loss rate: 0.88%
-- Flow 3:
  Average throughput: 359.66 Mbit/s
  95th percentile per-packet one-way delay: 182.223 ms
  Loss rate: 3.37%
Run 3: Report of FillP — Data Link

![Graph of Throughput vs Time for different flows]

- Flow 1 Ingress (mean 705.35 Mb/s)
- Flow 1 Egress (mean 698.15 Mb/s)
- Flow 2 Ingress (mean 565.04 Mb/s)
- Flow 2 Egress (mean 562.84 Mb/s)
- Flow 3 Ingress (mean 368.31 Mb/s)
- Flow 3 Egress (mean 359.66 Mb/s)

![Graph of Packet Delay vs Time for different flows]

- Flow 1 (95th percentile 118.61 ms)
- Flow 2 (95th percentile 180.05 ms)
- Flow 3 (95th percentile 182.22 ms)
Run 4: Statistics of FillP

Start at: 2018-06-07 17:48:03
End at: 2018-06-07 17:48:33
Local clock offset: -0.135 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-06-07 21:22:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1256.91 Mbit/s
95th percentile per-packet one-way delay: 106.368 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 721.03 Mbit/s
95th percentile per-packet one-way delay: 111.086 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 575.99 Mbit/s
95th percentile per-packet one-way delay: 80.816 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 466.36 Mbit/s
95th percentile per-packet one-way delay: 51.452 ms
Loss rate: 1.22%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2018-06-07 18:11:08
End at: 2018-06-07 18:11:38
Local clock offset: 0.097 ms
Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-06-07 21:24:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1292.30 Mbit/s
95th percentile per-packet one-way delay: 126.446 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 720.42 Mbit/s
95th percentile per-packet one-way delay: 127.031 ms
Loss rate: 3.52%
-- Flow 2:
Average throughput: 653.05 Mbit/s
95th percentile per-packet one-way delay: 125.693 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 418.09 Mbit/s
95th percentile per-packet one-way delay: 103.754 ms
Loss rate: 3.14%
Run 5: Report of FillP — Data Link

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

Legend:
- Flow 1 ingress (mean 744.02 Mbps)
- Flow 1 egress (mean 720.42 Mbps)
- Flow 2 ingress (mean 653.08 Mbps)
- Flow 2 egress (mean 653.05 Mbps)
- Flow 3 ingress (mean 427.10 Mbps)
- Flow 3 egress (mean 418.09 Mbps)

![Graph of per-packet one-way delay over time.]

Legend:
- Flow 1 (95th percentile 127.03 ms)
- Flow 2 (95th percentile 125.69 ms)
- Flow 3 (95th percentile 103.75 ms)
Run 6: Statistics of FillP

Start at: 2018-06-07 18:33:54
End at: 2018-06-07 18:34:24
Local clock offset: -0.101 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2018-06-07 21:24:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1216.05 Mbit/s
  95th percentile per-packet one-way delay: 108.419 ms
  Loss rate: 1.41%
-- Flow 1:
  Average throughput: 659.95 Mbit/s
  95th percentile per-packet one-way delay: 112.944 ms
  Loss rate: 1.65%
-- Flow 2:
  Average throughput: 576.27 Mbit/s
  95th percentile per-packet one-way delay: 104.418 ms
  Loss rate: 1.23%
-- Flow 3:
  Average throughput: 526.98 Mbit/s
  95th percentile per-packet one-way delay: 56.219 ms
  Loss rate: 0.90%
Run 6: Report of FillP — Data Link

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

**Throughput (Mbps)**

- Flow 1 Ingress (mean 668.66 Mbps)
- Flow 1 Egress (mean 659.95 Mbps)
- Flow 2 Ingress (mean 580.41 Mbps)
- Flow 2 Egress (mean 576.27 Mbps)
- Flow 3 Ingress (mean 526.56 Mbps)
- Flow 3 Egress (mean 526.98 Mbps)

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

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

- Flow 1 (95th percentile 112.94 ms)
- Flow 2 (95th percentile 104.42 ms)
- Flow 3 (95th percentile 56.22 ms)
Run 7: Statistics of FillP

Start at: 2018-06-07 18:57:00
End at: 2018-06-07 18:57:30
Local clock offset: -0.37 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-07 21:26:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1346.63 Mbit/s
95th percentile per-packet one-way delay: 139.535 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 731.33 Mbit/s
95th percentile per-packet one-way delay: 131.546 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 641.50 Mbit/s
95th percentile per-packet one-way delay: 173.551 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 575.22 Mbit/s
95th percentile per-packet one-way delay: 135.695 ms
Loss rate: 2.75%
Run 7: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 746.51 Mbps)
- Flow 1 Egress (mean 731.33 Mbps)
- Flow 2 Ingress (mean 646.57 Mbps)
- Flow 2 Egress (mean 643.50 Mbps)
- Flow 3 Ingress (mean 585.52 Mbps)
- Flow 3 Egress (mean 575.22 Mbps)

![Graph 2: Per-gadget stats vs delay (ms)](image2)

- Flow 1 (95th percentile 131.55 ms)
- Flow 2 (95th percentile 173.55 ms)
- Flow 3 (95th percentile 115.69 ms)
Run 8: Statistics of FillP

Start at: 2018-06-07 19:20:11
End at: 2018-06-07 19:20:41
Local clock offset: -0.005 ms
Remote clock offset: -0.511 ms

# Below is generated by plot.py at 2018-06-07 21:26:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1170.21 Mbit/s
  95th percentile per-packet one-way delay: 171.691 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 615.38 Mbit/s
  95th percentile per-packet one-way delay: 172.074 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 551.74 Mbit/s
  95th percentile per-packet one-way delay: 179.247 ms
  Loss rate: 0.89%
-- Flow 3:
  Average throughput: 571.71 Mbit/s
  95th percentile per-packet one-way delay: 61.610 ms
  Loss rate: 1.18%
Run 8: Report of FillP — Data Link

![Graph showing throughput and packet delay over time for different flows.]
Run 9: Statistics of FillP

Start at: 2018-06-07 19:42:30
End at: 2018-06-07 19:43:00
Local clock offset: -0.13 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-06-07 21:48:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1293.64 Mbit/s
  95th percentile per-packet one-way delay: 71.306 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 712.88 Mbit/s
  95th percentile per-packet one-way delay: 70.707 ms
  Loss rate: 0.20%
-- Flow 2:
  Average throughput: 628.09 Mbit/s
  95th percentile per-packet one-way delay: 74.115 ms
  Loss rate: 0.28%
-- Flow 3:
  Average throughput: 498.98 Mbit/s
  95th percentile per-packet one-way delay: 53.562 ms
  Loss rate: 0.83%
Run 9: Report of FillP — Data Link

---

**Graph 1:**
Throughput (Mbit/s) vs. Time (s)

- **Flow 1 Ingress (mean 711.88 Mbit/s)**
- **Flow 1 Egress (mean 712.88 Mbit/s)**
- **Flow 2 Ingress (mean 627.08 Mbit/s)**
- **Flow 2 Egress (mean 628.09 Mbit/s)**
- **Flow 3 Ingress (mean 497.62 Mbit/s)**
- **Flow 3 Egress (mean 498.98 Mbit/s)**

---

**Graph 2:**
Per-packet end-to-end delay (ms) vs. Time (s)

- **Flow 1 (95th percentile 70.71 ms)**
- **Flow 2 (95th percentile 74.11 ms)**
- **Flow 3 (95th percentile 53.56 ms)**

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Run 10: Statistics of FillP

Start at: 2018-06-07 20:05:01
End at: 2018-06-07 20:05:31
Local clock offset: 0.051 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1374.61 Mbit/s
95th percentile per-packet one-way delay: 169.200 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 743.29 Mbit/s
95th percentile per-packet one-way delay: 136.217 ms
Loss rate: 2.56%
-- Flow 2:
Average throughput: 679.99 Mbit/s
95th percentile per-packet one-way delay: 169.311 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 546.49 Mbit/s
95th percentile per-packet one-way delay: 215.040 ms
Loss rate: 2.80%
Run 10: Report of FillIP — Data Link

Throughput (Mbps)

0 5 10 15 20 25 30

Time (s)

Flow 1 ingress (mean 780.26 Mbps)  —  Flow 1 egress (mean 743.29 Mbps)
Flow 2 ingress (mean 688.92 Mbps)  —  Flow 2 egress (mean 679.99 Mbps)
Flow 3 ingress (mean 556.50 Mbps)  —  Flow 3 egress (mean 546.49 Mbps)

Per-packet one-way delay (ms)

0 50 100 150 200 250

Time (s)

Flow 1 (95th percentile 136.22 ms)  —  Flow 2 (95th percentile 169.31 ms)  —  Flow 3 (95th percentile 215.04 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-07 16:49:04
End at: 2018-06-07 16:49:34
Local clock offset: 0.053 ms
Remote clock offset: -1.062 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 380.92 Mbit/s
95th percentile per-packet one-way delay: 52.668 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 194.10 Mbit/s
95th percentile per-packet one-way delay: 52.261 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 195.12 Mbit/s
95th percentile per-packet one-way delay: 52.834 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 160.70 Mbit/s
95th percentile per-packet one-way delay: 53.148 ms
Loss rate: 1.07%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2018-06-07 17:11:26
End at: 2018-06-07 17:11:56
Local clock offset: -0.253 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.73 Mbit/s
95th percentile per-packet one-way delay: 54.456 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 204.35 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 188.30 Mbit/s
95th percentile per-packet one-way delay: 54.603 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 163.86 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 1.12%
Run 2: Report of Indigo — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 204.33 Mbps)
  - Flow 1 egress (mean 204.35 Mbps)
  - Flow 2 ingress (mean 188.34 Mbps)
  - Flow 2 egress (mean 188.29 Mbps)
  - Flow 3 ingress (mean 163.99 Mbps)
  - Flow 3 egress (mean 163.96 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 53.50 ms)
  - Flow 2 (95th percentile 54.60 ms)
  - Flow 3 (95th percentile 56.10 ms)
Run 3: Statistics of Indigo

Start at: 2018-06-07 17:34:33
End at: 2018-06-07 17:35:03
Local clock offset: -0.176 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.24 Mbit/s
95th percentile per-packet one-way delay: 53.217 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 207.43 Mbit/s
95th percentile per-packet one-way delay: 52.815 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 185.30 Mbit/s
95th percentile per-packet one-way delay: 53.308 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 162.91 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 1.18%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2018-06-07 17:57:31
End at: 2018-06-07 17:58:01
Local clock offset: 0.186 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.81 Mbit/s
95th percentile per-packet one-way delay: 53.039 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 219.27 Mbit/s
95th percentile per-packet one-way delay: 52.751 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 208.84 Mbit/s
95th percentile per-packet one-way delay: 53.163 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 173.07 Mbit/s
95th percentile per-packet one-way delay: 53.498 ms
Loss rate: 0.92%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2018-06-07 18:20:10
End at: 2018-06-07 18:20:40
Local clock offset: -0.152 ms
Remote clock offset: 0.506 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 386.79 Mbit/s
95th percentile per-packet one-way delay: 52.645 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 209.58 Mbit/s
95th percentile per-packet one-way delay: 52.140 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 52.728 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 166.55 Mbit/s
95th percentile per-packet one-way delay: 53.339 ms
Loss rate: 1.17%
Run 5: Report of Indigo — Data Link

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

- **Flow 1 ingress** (mean 209.57 Mbps)
- **Flow 1 egress** (mean 209.58 Mbps)
- **Flow 2 ingress** (mean 185.70 Mbps)
- **Flow 2 egress** (mean 185.74 Mbps)
- **Flow 3 ingress** (mean 166.76 Mbps)
- **Flow 3 egress** (mean 166.55 Mbps)

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

- **Flow 1 (95th percentile 52.14 ms)**
- **Flow 2 (95th percentile 52.73 ms)**
- **Flow 3 (95th percentile 53.34 ms)**
Run 6: Statistics of Indigo

Start at: 2018-06-07 18:43:03
End at: 2018-06-07 18:43:33
Local clock offset: -0.409 ms
Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.45 Mbit/s
95th percentile per-packet one-way delay: 55.085 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 219.01 Mbit/s
95th percentile per-packet one-way delay: 54.096 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 205.88 Mbit/s
95th percentile per-packet one-way delay: 55.335 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 164.43 Mbit/s
95th percentile per-packet one-way delay: 56.074 ms
Loss rate: 1.48%
Run 6: Report of Indigo — Data Link

---

**Throughput (Mbps):**

<table>
<thead>
<tr>
<th>Flow 1 ingress (mean 219.13 Mbps)</th>
<th>Flow 1 egress (mean 219.01 Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 2 ingress (mean 206.05 Mbps)</td>
<td>Flow 2 egress (mean 205.08 Mbps)</td>
</tr>
<tr>
<td>Flow 3 ingress (mean 166.13 Mbps)</td>
<td>Flow 3 egress (mean 164.43 Mbps)</td>
</tr>
</tbody>
</table>

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

- Flow 1 (95th percentile 54.10 ms)
- Flow 2 (95th percentile 55.34 ms)
- Flow 3 (95th percentile 56.07 ms)
Run 7: Statistics of Indigo

Start at: 2018-06-07 19:06:32
End at: 2018-06-07 19:07:02
Local clock offset: 0.023 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 412.72 Mbit/s
  95th percentile per-packet one-way delay: 51.726 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 241.36 Mbit/s
  95th percentile per-packet one-way delay: 51.431 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 174.27 Mbit/s
  95th percentile per-packet one-way delay: 51.829 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 171.09 Mbit/s
  95th percentile per-packet one-way delay: 52.398 ms
  Loss rate: 1.11%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-07 19:29:11
End at: 2018-06-07 19:29:41
Local clock offset: -0.041 ms
Remote clock offset: -0.453 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.28 Mbit/s
95th percentile per-packet one-way delay: 52.911 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 214.32 Mbit/s
95th percentile per-packet one-way delay: 52.552 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 233.09 Mbit/s
95th percentile per-packet one-way delay: 52.925 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 53.715 ms
Loss rate: 1.18%
Run 8: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]
Run 9: Statistics of Indigo

Start at: 2018-06-07 19:51:37
End at: 2018-06-07 19:52:07
Local clock offset: 0.121 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.96 Mbit/s
95th percentile per-packet one-way delay: 51.651 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 205.24 Mbit/s
95th percentile per-packet one-way delay: 51.413 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 194.94 Mbit/s
95th percentile per-packet one-way delay: 51.764 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 167.03 Mbit/s
95th percentile per-packet one-way delay: 52.011 ms
Loss rate: 1.23%
Run 9: Report of Indigo — Data Link

---

**Throughput (Mbps):**
- Flow 1 ingress (mean 205.26 Mbps)
- Flow 1 egress (mean 205.24 Mbps)
- Flow 2 ingress (mean 194.98 Mbps)
- Flow 2 egress (mean 194.94 Mbps)
- Flow 3 ingress (mean 167.37 Mbps)
- Flow 3 egress (mean 167.03 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 51.41 ms)
- Flow 2 (95th percentile 51.76 ms)
- Flow 3 (95th percentile 52.01 ms)
Run 10: Statistics of Indigo

End at: 2018-06-07 20:14:43
Local clock offset: -0.325 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.34 Mbit/s
95th percentile per-packet one-way delay: 53.535 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 212.13 Mbit/s
95th percentile per-packet one-way delay: 52.838 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 194.78 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 168.52 Mbit/s
95th percentile per-packet one-way delay: 54.623 ms
Loss rate: 1.19%
Run 10: Report of Indigo — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 212.11 Mbps)
  - Flow 1 egress (mean 212.13 Mbps)
  - Flow 2 ingress (mean 194.12 Mbps)
  - Flow 2 egress (mean 194.78 Mbps)
  - Flow 3 ingress (mean 168.80 Mbps)
  - Flow 3 egress (mean 166.52 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 52.64 ms)
  - Flow 2 (95th percentile 53.74 ms)
  - Flow 3 (95th percentile 54.62 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-06-07 16:47:52
End at: 2018-06-07 16:48:22
Local clock offset: -0.088 ms
Remote clock offset: -0.808 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 51.148 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 32.61 Mbit/s
95th percentile per-packet one-way delay: 51.197 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.62 Mbit/s
95th percentile per-packet one-way delay: 51.034 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 51.659 ms
Loss rate: 2.08%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-06-07 17:10:15
End at: 2018-06-07 17:10:45
Local clock offset: -0.069 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.67 Mbit/s
95th percentile per-packet one-way delay: 51.295 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 32.89 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 50.930 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 51.124 ms
Loss rate: 2.08%
Run 2: Report of LEDBAT — Data Link

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

Start at: 2018-06-07 17:33:21
End at: 2018-06-07 17:33:51
Local clock offset: -0.181 ms
Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 51.614 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.79 Mbit/s
95th percentile per-packet one-way delay: 51.704 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 51.396 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 51.239 ms
Loss rate: 2.08%
Run 3: Report of LEDBAT — Data Link

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

**Throughput (kbps):**
- Flow 1 ingress (mean 34.91 Mb/s)
- Flow 1 egress (mean 34.79 Mb/s)
- Flow 2 ingress (mean 22.03 Mb/s)
- Flow 2 egress (mean 21.91 Mb/s)
- Flow 3 ingress (mean 11.23 Mb/s)
- Flow 3 egress (mean 11.12 Mb/s)

**Packet Delay (ms):**
- Flow 1 (95th percentile 51.70 ms)
- Flow 2 (95th percentile 51.40 ms)
- Flow 3 (95th percentile 51.24 ms)
Run 4: Statistics of LEDBAT

Start at: 2018-06-07 17:56:19
End at: 2018-06-07 17:56:49
Local clock offset: 0.217 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 51.638 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.41 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 51.562 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 51.225 ms
Loss rate: 2.14%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-06-07 18:18:58
End at: 2018-06-07 18:19:28
Local clock offset: 0.099 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.13 Mbit/s
  95th percentile per-packet one-way delay: 51.895 ms
  Loss rate: 0.88%
-- Flow 1:
  Average throughput: 33.16 Mbit/s
  95th percentile per-packet one-way delay: 51.959 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 23.54 Mbit/s
  95th percentile per-packet one-way delay: 51.852 ms
  Loss rate: 1.01%
-- Flow 3:
  Average throughput: 10.17 Mbit/s
  95th percentile per-packet one-way delay: 51.229 ms
  Loss rate: 2.18%
Run 5: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 33.28 Mbit/s)
- Flow 1 egress (mean 33.16 Mbit/s)
- Flow 2 ingress (mean 23.65 Mbit/s)
- Flow 2 egress (mean 23.54 Mbit/s)
- Flow 3 ingress (mean 10.29 Mbit/s)
- Flow 3 egress (mean 10.17 Mbit/s)

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Run 6: Statistics of LEDBAT

Start at: 2018-06-07 18:41:52
End at: 2018-06-07 18:42:22
Local clock offset: -0.097 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.45 Mbit/s
95th percentile per-packet one-way delay: 51.074 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.15 Mbit/s
95th percentile per-packet one-way delay: 51.100 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 50.995 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 51.103 ms
Loss rate: 2.04%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-06-07 19:05:21
End at: 2018-06-07 19:05:51
Local clock offset: 0.282 ms
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 51.893 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 51.952 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 2.87%
-- Flow 3:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 51.186 ms
Loss rate: 2.20%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

End at: 2018-06-07 19:28:29
Local clock offset: 0.141 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.57 Mbit/s
95th percentile per-packet one-way delay: 51.646 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 34.77 Mbit/s
95th percentile per-packet one-way delay: 51.668 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 51.636 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 51.201 ms
Loss rate: 2.11%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-06-07 19:50:25
End at: 2018-06-07 19:50:55
Local clock offset: -0.096 ms
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.02 Mbit/s
95th percentile per-packet one-way delay: 51.548 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 33.46 Mbit/s
95th percentile per-packet one-way delay: 51.551 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 22.80 Mbit/s
95th percentile per-packet one-way delay: 51.591 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 51.319 ms
Loss rate: 2.15%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-06-07 20:13:02
Local clock offset: 0.259 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 51.771 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 51.407 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 2.08%
Run 10: Report of LEDBAT — Data Link

![Graph of network performance over time, showing throughput and latency for different flows.]

- **Throughput** shows steady increases across all flows, with average rates for each flow indicated.
- **Latency** displays variability, with some spikes and consistent median values for each flow.

---

**Flow 1**
- Ingress: 33.17 Mbit/s
- Egress: 33.06 Mbit/s

**Flow 2**
- Ingress: 22.46 Mbit/s
- Egress: 22.34 Mbit/s

**Flow 3**
- Ingress: 11.25 Mbit/s
- Egress: 11.13 Mbit/s

---

Median values for latency:
- **Flow 1**: 51.77 ms
- **Flow 2**: 51.41 ms
- **Flow 3**: 51.52 ms
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 16:37:01
End at: 2018-06-07 16:37:31
Local clock offset: 0.107 ms
Remote clock offset: -1.002 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 568.63 Mbit/s
95th percentile per-packet one-way delay: 108.140 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 506.16 Mbit/s
95th percentile per-packet one-way delay: 108.701 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 103.893 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 90.080 ms
Loss rate: 1.12%
Run 1: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 508.16 Mbit/s)
Flow 1 egress (mean 506.16 Mbit/s)
Flow 2 ingress (mean 78.06 Mbit/s)
Flow 2 egress (mean 78.02 Mbit/s)
Flow 3 ingress (mean 32.89 Mbit/s)
Flow 3 egress (mean 32.86 Mbit/s)

End-to-end time delay (ms)

Time (s)

Flow 1 (95th percentile 108.70 ms)
Flow 2 (95th percentile 103.89 ms)
Flow 3 (95th percentile 90.08 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 16:59:28
End at: 2018-06-07 16:59:58
Local clock offset: ~0.058 ms
Remote clock offset: ~0.598 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 575.79 Mbit/s
  95th percentile per-packet one-way delay: 152.668 ms
  Loss rate: 0.75%
-- Flow 1:
  Average throughput: 571.98 Mbit/s
  95th percentile per-packet one-way delay: 152.644 ms
  Loss rate: 0.75%
-- Flow 2:
  Average throughput: 4.69 Mbit/s
  95th percentile per-packet one-way delay: 153.149 ms
  Loss rate: 0.97%
-- Flow 3:
  Average throughput: 2.37 Mbit/s
  95th percentile per-packet one-way delay: 169.410 ms
  Loss rate: 2.23%
Run 2: Report of PCC-Allegro — Data Link

The graphs show the throughput and per-packet one-way delay over time for three different flows during Run 2. The throughput graph displays the peak throughput rates for each flow, indicating the maximum data transmission speeds. The per-packet one-way delay graph illustrates the delay experienced by packets across the network, with higher delays indicating potential congestion or network latency issues.

Key metrics include:
- **Flow 1**: Ingress (mean 574.36 Mbit/s) and Egress (mean 571.98 Mbit/s)
- **Flow 2**: Ingress (mean 4.71 Mbit/s) and Egress (mean 4.69 Mbit/s)
- **Flow 3**: Ingress (mean 2.40 Mbit/s) and Egress (mean 2.37 Mbit/s)

The graphs highlight periods of high activity where delays and throughput fluctuations are evident. Understanding these metrics is crucial for optimizing network performance and managing data flow efficiently.
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 17:22:18
End at: 2018-06-07 17:22:48
Local clock offset: -0.327 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.00 Mbit/s
95th percentile per-packet one-way delay: 171.423 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 581.89 Mbit/s
95th percentile per-packet one-way delay: 171.429 ms
Loss rate: 7.16%
-- Flow 2:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 170.321 ms
Loss rate: 7.74%
-- Flow 3:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 171.505 ms
Loss rate: 7.61%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 17:45:05
End at: 2018-06-07 17:45:35
Local clock offset: 0.129 ms
Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 586.27 Mbit/s
95th percentile per-packet one-way delay: 164.618 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 526.75 Mbit/s
95th percentile per-packet one-way delay: 164.811 ms
Loss rate: 2.48%
-- Flow 2:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 162.797 ms
Loss rate: 2.02%
-- Flow 3:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 93.949 ms
Loss rate: 1.08%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 18:08:10
End at: 2018-06-07 18:08:40
Local clock offset: 0.197 ms
Remote clock offset: 0.805 ms

# Below is generated by plot.py at 2018-06-07 21:49:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.37 Mbit/s
95th percentile per-packet one-way delay: 165.294 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 545.85 Mbit/s
95th percentile per-packet one-way delay: 165.302 ms
Loss rate: 2.51%
-- Flow 2:
Average throughput: 58.48 Mbit/s
95th percentile per-packet one-way delay: 165.215 ms
Loss rate: 2.42%
-- Flow 3:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 165.060 ms
Loss rate: 2.71%
Run 5: Report of PCC-Allegro — Data Link

![Graph showing throughput and per-packet one-way delay](image-url)
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 18:30:57
End at: 2018-06-07 18:31:27
Local clock offset: -0.491 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2018-06-07 21:50:00
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 574.70 Mbit/s
  95th percentile per-packet one-way delay: 167.803 ms
  Loss rate: 2.07%
  -- Flow 1:
  Average throughput: 566.75 Mbit/s
  95th percentile per-packet one-way delay: 167.797 ms
  Loss rate: 2.05%
  -- Flow 2:
  Average throughput: 4.20 Mbit/s
  95th percentile per-packet one-way delay: 167.583 ms
  Loss rate: 2.52%
  -- Flow 3:
  Average throughput: 15.80 Mbit/s
  95th percentile per-packet one-way delay: 168.255 ms
  Loss rate: 4.19%
Run 6: Report of PCC-Allegro — Data Link
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 18:54:03
End at: 2018-06-07 18:54:33
Local clock offset: 0.015 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2018-06-07 21:56:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.31 Mbit/s
95th percentile per-packet one-way delay: 149.368 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 569.20 Mbit/s
95th percentile per-packet one-way delay: 149.608 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 131.969 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 5.92 Mbit/s
95th percentile per-packet one-way delay: 114.275 ms
Loss rate: 1.69%
Run 7: Report of PCC-Allegro — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 571.16 Mbps)
- Flow 1 egress (mean 569.29 Mbps)
- Flow 2 ingress (mean 4.80 Mbps)
- Flow 2 egress (mean 4.79 Mbps)
- Flow 3 ingress (mean 5.96 Mbps)
- Flow 3 egress (mean 5.92 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 149.61 ms)
- Flow 2 (95th percentile 131.97 ms)
- Flow 3 (95th percentile 114.28 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 19:17:13
End at: 2018-06-07 19:17:43
Local clock offset: -0.281 ms
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2018-06-07 21:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.28 Mbit/s
95th percentile per-packet one-way delay: 158.596 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 556.59 Mbit/s
95th percentile per-packet one-way delay: 158.809 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 153.310 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 81.497 ms
Loss rate: 1.76%
Run 8: Report of PCC-Allegro — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 560.57 Mbit/s)  Flow 1 egress (mean 556.59 Mbit/s)
Flow 2 ingress (mean 25.37 Mbit/s)  Flow 2 egress (mean 25.08 Mbit/s)
Flow 3 ingress (mean 34.02 Mbit/s)  Flow 3 egress (mean 33.79 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 158.81 ms)  Flow 2 (95th percentile 153.31 ms)  Flow 3 (95th percentile 81.50 ms)
Run 9: Statistics of PCC-Allegro

End at: 2018-06-07 19:40:03
Local clock offset: -0.085 ms
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 601.08 Mbit/s
95th percentile per-packet one-way delay: 156.539 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 576.42 Mbit/s
95th percentile per-packet one-way delay: 156.737 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 155.376 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 64.77 Mbit/s
95th percentile per-packet one-way delay: 94.839 ms
Loss rate: 1.78%
Run 9: Report of PCC-Allegro — Data Link

![Graph of Throughput and Ping Time]
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 20:02:05
End at: 2018-06-07 20:02:35
Local clock offset: -0.113 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 564.55 Mbit/s
  95th percentile per-packet one-way delay: 134.790 ms
  Loss rate: 1.60%
-- Flow 1:
  Average throughput: 535.64 Mbit/s
  95th percentile per-packet one-way delay: 135.220 ms
  Loss rate: 1.64%
-- Flow 2:
  Average throughput: 34.87 Mbit/s
  95th percentile per-packet one-way delay: 130.657 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 17.66 Mbit/s
  95th percentile per-packet one-way delay: 133.569 ms
  Loss rate: 1.94%
Run 10: Report of PCC-Allegro — Data Link

![Graph showing data link performance metrics: Throughput (Mbps) and Round-trip time (ms)]
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 16:43:30
End at: 2018-06-07 16:44:00
Local clock offset: -0.29 ms
Remote clock offset: -0.521 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.23 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 110.42 Mbit/s
95th percentile per-packet one-way delay: 53.292 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 101.34 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 206.15 Mbit/s
95th percentile per-packet one-way delay: 50.125 ms
Loss rate: 1.38%
Run 1: Report of PCC-Expr — Data Link

---

Throughput (Mbit/s)

Time (s)

- Flow 1 ingress (mean 110.47 Mbit/s)
- Flow 1 egress (mean 110.42 Mbit/s)
- Flow 2 ingress (mean 101.47 Mbit/s)
- Flow 2 egress (mean 101.34 Mbit/s)
- Flow 3 ingress (mean 206.90 Mbit/s)
- Flow 3 egress (mean 206.15 Mbit/s)

---

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 53.29 ms)
- Flow 2 (95th percentile 53.09 ms)
- Flow 3 (95th percentile 50.12 ms)
Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 17:05:48
End at: 2018-06-07 17:06:18
Local clock offset: -0.002 ms
Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2018-06-07 21:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.56 Mbit/s
95th percentile per-packet one-way delay: 205.037 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 92.59 Mbit/s
95th percentile per-packet one-way delay: 53.521 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 206.12 Mbit/s
95th percentile per-packet one-way delay: 211.929 ms
Loss rate: 3.74%
-- Flow 3:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 52.955 ms
Loss rate: 1.16%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 17:28:44
End at: 2018-06-07 17:29:14
Local clock offset: -0.164 ms
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2018-06-07 22:03:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 432.90 Mbit/s
  95th percentile per-packet one-way delay: 217.237 ms
  Loss rate: 4.99%
-- Flow 1:
  Average throughput: 330.46 Mbit/s
  95th percentile per-packet one-way delay: 219.777 ms
  Loss rate: 5.45%
-- Flow 2:
  Average throughput: 104.77 Mbit/s
  95th percentile per-packet one-way delay: 136.860 ms
  Loss rate: 2.55%
-- Flow 3:
  Average throughput: 100.34 Mbit/s
  95th percentile per-packet one-way delay: 171.131 ms
  Loss rate: 5.42%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 17:51:38
End at: 2018-06-07 17:52:08
Local clock offset: 0.373 ms
Remote clock offset: 0.505 ms

# Below is generated by plot.py at 2018-06-07 22:08:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 509.92 Mbit/s
  95th percentile per-packet one-way delay: 180.668 ms
  Loss rate: 7.63%
-- Flow 1:
  Average throughput: 350.94 Mbit/s
  95th percentile per-packet one-way delay: 184.617 ms
  Loss rate: 7.01%
-- Flow 2:
  Average throughput: 225.33 Mbit/s
  95th percentile per-packet one-way delay: 176.791 ms
  Loss rate: 9.00%
-- Flow 3:
  Average throughput: 28.69 Mbit/s
  95th percentile per-packet one-way delay: 175.430 ms
  Loss rate: 8.30%
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 376.10 Mbit/s)
- Flow 1 egress (mean 350.94 Mbit/s)
- Flow 2 ingress (mean 246.34 Mbit/s)
- Flow 2 egress (mean 225.33 Mbit/s)
- Flow 3 ingress (mean 30.05 Mbit/s)
- Flow 3 egress (mean 28.69 Mbit/s)

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

- Flow 1 (95th percentile 184.62 ms)
- Flow 2 (95th percentile 176.79 ms)
- Flow 3 (95th percentile 175.43 ms)
Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 18:14:32
End at: 2018-06-07 18:15:02
Local clock offset: -0.385 ms
Remote clock offset: 0.553 ms

# Below is generated by plot.py at 2018-06-07 22:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.98 Mbit/s
95th percentile per-packet one-way delay: 175.177 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 149.60 Mbit/s
95th percentile per-packet one-way delay: 174.924 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 192.33 Mbit/s
95th percentile per-packet one-way delay: 175.731 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 173.076 ms
Loss rate: 4.42%
Run 5: Report of PCC-Expr — Data Link
Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 18:37:24
End at: 2018-06-07 18:37:54
Local clock offset: 0.188 ms
Remote clock offset: 0.456 ms

# Below is generated by plot.py at 2018-06-07 22:08:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.23 Mbit/s
95th percentile per-packet one-way delay: 172.335 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 178.46 Mbit/s
95th percentile per-packet one-way delay: 172.212 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 118.71 Mbit/s
95th percentile per-packet one-way delay: 171.963 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 189.11 Mbit/s
95th percentile per-packet one-way delay: 172.902 ms
Loss rate: 5.70%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 19:00:37
End at: 2018-06-07 19:01:07
Local clock offset: -0.17 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 507.82 Mbit/s
  95th percentile per-packet one-way delay: 183.762 ms
  Loss rate: 4.71%
-- Flow 1:
  Average throughput: 349.44 Mbit/s
  95th percentile per-packet one-way delay: 201.267 ms
  Loss rate: 4.47%
-- Flow 2:
  Average throughput: 202.24 Mbit/s
  95th percentile per-packet one-way delay: 165.412 ms
  Loss rate: 5.10%
-- Flow 3:
  Average throughput: 73.55 Mbit/s
  95th percentile per-packet one-way delay: 166.371 ms
  Loss rate: 6.05%
Run 7: Report of PCC-Expr — Data Link

**Throughput**

- Flow 1 ingress (mean 364.54 Mbit/s)
- Flow 1 egress (mean 349.44 Mbit/s)
- Flow 2 ingress (mean 212.02 Mbit/s)
- Flow 2 egress (mean 202.24 Mbit/s)
- Flow 3 ingress (mean 77.45 Mbit/s)
- Flow 3 egress (mean 73.55 Mbit/s)

**Per-packet one-way delay**

- Flow 1 (95th percentile 201.27 ms)
- Flow 2 (95th percentile 165.41 ms)
- Flow 3 (95th percentile 166.37 ms)
Run 8: Statistics of PCC-Expr

End at: 2018-06-07 19:24:06
Local clock offset: -0.009 ms
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.87 Mbit/s
95th percentile per-packet one-way delay: 53.983 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 109.94 Mbit/s
95th percentile per-packet one-way delay: 53.454 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 54.083 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 53.473 ms
Loss rate: 1.95%
Run 8: Report of PCC-Expr — Data Link
Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 19:45:46
End at: 2018-06-07 19:46:16
Local clock offset: 0.053 ms
Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.41 Mbit/s
95th percentile per-packet one-way delay: 74.049 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 302.39 Mbit/s
95th percentile per-packet one-way delay: 83.156 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 225.21 Mbit/s
95th percentile per-packet one-way delay: 57.367 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 53.46 Mbit/s
95th percentile per-packet one-way delay: 53.477 ms
Loss rate: 1.36%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 20:08:37
End at: 2018-06-07 20:09:07
Local clock offset: -0.11 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.78 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 89.37 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 53.781 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 208.78 Mbit/s
95th percentile per-packet one-way delay: 68.087 ms
Loss rate: 1.18%
Run 10: Report of PCC-Expr — Data Link

[Image of throughput graph]

[Image of packet delay graph]
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 16:51:44
End at: 2018-06-07 16:52:14
Local clock offset: -0.036 ms
Remote clock offset: -0.841 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 54.16 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 53.159 ms
Loss rate: 3.83%
Run 1: Report of QUIC Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 52.15 Mbps)
- Flow 1 egress (mean 52.08 Mbps)
- Flow 2 ingress (mean 54.26 Mbps)
- Flow 2 egress (mean 54.16 Mbps)
- Flow 3 ingress (mean 21.40 Mbps)
- Flow 3 egress (mean 20.81 Mbps)

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

- Flow 1 (95th percentile 53.84 ms)
- Flow 2 (95th percentile 53.72 ms)
- Flow 3 (95th percentile 53.16 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 17:14:07
End at: 2018-06-07 17:14:37
Local clock offset: -0.13 ms
Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 53.421 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 50.002 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 52.951 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.48%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 60.41 Mbit/s)
- Flow 1 egress (mean 60.37 Mbit/s)
- Flow 2 ingress (mean 47.46 Mbit/s)
- Flow 2 egress (mean 47.26 Mbit/s)
- Flow 3 ingress (mean 15.12 Mbit/s)
- Flow 3 egress (mean 15.22 Mbit/s)

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

- Flow 1 (95th percentile 50.00 ms)
- Flow 2 (95th percentile 52.95 ms)
- Flow 3 (95th percentile 53.57 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 17:37:14
End at: 2018-06-07 17:37:44
Local clock offset: -0.128 ms
Remote clock offset: 0.652 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 53.131 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 50.047 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 39.61 Mbit/s
95th percentile per-packet one-way delay: 53.181 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 63.17 Mbit/s
95th percentile per-packet one-way delay: 53.141 ms
Loss rate: 0.12%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 18:00:14
End at: 2018-06-07 18:00:44
Local clock offset: 0.205 ms
Remote clock offset: 0.381 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 16.53 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 17.51 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

End at: 2018-06-07 18:23:21
Local clock offset: -0.2 ms
Remote clock offset: 0.485 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 110.56 Mbit/s
  95th percentile per-packet one-way delay: 53.777 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 53.20 Mbit/s
  95th percentile per-packet one-way delay: 53.633 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 55.39 Mbit/s
  95th percentile per-packet one-way delay: 53.639 ms
  Loss rate: 0.93%
-- Flow 3:
  Average throughput: 62.78 Mbit/s
  95th percentile per-packet one-way delay: 53.863 ms
  Loss rate: 0.16%
Run 5: Report of QUIC Cubic — Data Link

[Graph showing throughput over time for different flows]

[Graph showing packet delay over time for different flows]
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 18:45:46
End at: 2018-06-07 18:46:16
Local clock offset: -0.219 ms
Remote clock offset: 0.294 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.88 Mbit/s
  95th percentile per-packet one-way delay: 53.316 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 60.36 Mbit/s
  95th percentile per-packet one-way delay: 53.126 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 44.04 Mbit/s
  95th percentile per-packet one-way delay: 49.952 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 21.86 Mbit/s
  95th percentile per-packet one-way delay: 53.444 ms
  Loss rate: 0.51%
Run 6: Report of QUIC Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 60.41 Mbit/s)
- Flow 1 egress (mean 60.36 Mbit/s)
- Flow 2 ingress (mean 44.19 Mbit/s)
- Flow 2 egress (mean 44.04 Mbit/s)
- Flow 3 ingress (mean 21.73 Mbit/s)
- Flow 3 egress (mean 21.86 Mbit/s)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 19:09:15
End at: 2018-06-07 19:09:45
Local clock offset: 0.221 ms
Remote clock offset: -0.27 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.11 Mbit/s
  95th percentile per-packet one-way delay: 53.343 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 59.51 Mbit/s
  95th percentile per-packet one-way delay: 50.532 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 41.82 Mbit/s
  95th percentile per-packet one-way delay: 53.393 ms
  Loss rate: 1.11%
-- Flow 3:
  Average throughput: 17.79 Mbit/s
  95th percentile per-packet one-way delay: 50.510 ms
  Loss rate: 0.03%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 19:31:54
End at: 2018-06-07 19:32:24
Local clock offset: -0.12 ms
Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.24 Mbit/s
  95th percentile per-packet one-way delay: 53.720 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 58.08 Mbit/s
  95th percentile per-packet one-way delay: 50.542 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 47.64 Mbit/s
  95th percentile per-packet one-way delay: 53.769 ms
  Loss rate: 0.83%
-- Flow 3:
  Average throughput: 22.84 Mbit/s
  95th percentile per-packet one-way delay: 50.646 ms
  Loss rate: 0.28%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 19:54:18
End at: 2018-06-07 19:54:48
Local clock offset: 0.03 ms
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2018-06-07 22:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.34 Mbit/s
95th percentile per-packet one-way delay: 54.321 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 59.08 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 47.94 Mbit/s
95th percentile per-packet one-way delay: 54.351 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 25.66 Mbit/s
95th percentile per-packet one-way delay: 54.379 ms
Loss rate: 2.93%
Run 9: Report of QUIC Cubic — Data Link

![Graphs showing throughput and packet loss data for different flows over time]
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 20:16:55  
End at: 2018-06-07 20:17:25  
Local clock offset: 0.009 ms   
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-06-07 22:13:31  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 115.35 Mbit/s  
95th percentile per-packet one-way delay: 53.595 ms  
Loss rate: 0.58%  

-- Flow 1:  
Average throughput: 60.12 Mbit/s  
95th percentile per-packet one-way delay: 53.627 ms  
Loss rate: 0.45%  

-- Flow 2:  
Average throughput: 53.50 Mbit/s  
95th percentile per-packet one-way delay: 49.874 ms  
Loss rate: 0.67%  

-- Flow 3:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: 53.541 ms  
Loss rate: 0.85%
Run 10: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 60.18 Mbps)
- Flow 1 egress (mean 60.12 Mbps)
- Flow 2 ingress (mean 53.58 Mbps)
- Flow 2 egress (mean 53.50 Mbps)
- Flow 3 ingress (mean 60.37 Mbps)
- Flow 3 egress (mean 60.23 Mbps)

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

- Flow 1 (95th percentile 53.63 ms)
- Flow 2 (95th percentile 49.87 ms)
- Flow 3 (95th percentile 53.54 ms)
Run 1: Statistics of SCReAM

Start at: 2018-06-07 16:50:35
End at: 2018-06-07 16:51:05
Local clock offset: -0.277 ms
Remote clock offset: -0.953 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics

-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.250 ms
  Loss rate: 0.51%

-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 50.260 ms
  Loss rate: 0.26%

-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.550 ms
  Loss rate: 0.61%

-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.293 ms
  Loss rate: 1.08%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-06-07 17:12:59
End at: 2018-06-07 17:13:29
Local clock offset: 0.363 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.284 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.314 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.493 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 1.09%
Run 2: Report of SCReAM — Data Link

![Graph showing throughput over time](image)

![Graph showing packet delay over time](image)
Run 3: Statistics of SCReAM

Start at: 2018-06-07 17:36:05
End at: 2018-06-07 17:36:35
Local clock offset: -0.201 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.349 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.74%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCR
e
Start at: 2018-06-07 17:59:06
End at: 2018-06-07 17:59:36
Local clock offset: -0.091 ms
Remote clock offset: 0.612 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.692 ms
Loss rate: 0.57%

-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.702 ms
Loss rate: 0.38%

-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.670 ms
Loss rate: 0.61%

-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.501 ms
Loss rate: 1.07%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Local clock offset: -0.082 ms
Remote clock offset: 0.743 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.634 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.599 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 1.09%
Run 5: Report of SCReAM — Data Link

![Graph of Throughput vs Time]

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.21 Mbps)
- Flow 2 ingress (mean 0.21 Mbps)
- Flow 2 egress (mean 0.21 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

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

- Flow 1 (95th percentile 53.64 ms)
- Flow 2 (95th percentile 53.60 ms)
- Flow 3 (95th percentile 53.61 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-07 18:44:38
End at: 2018-06-07 18:45:08
Local clock offset: -0.022 ms
Remote clock offset: 0.227 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.720 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.352 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.588 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.768 ms
  Loss rate: 1.10%
Run 6: Report of SCReAM — Data Link

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

Flow 1 ingress (mean 0.22 Mbps) - Flow 1 egress (mean 0.22 Mbps)
Flow 2 ingress (mean 0.21 Mbps) - Flow 2 egress (mean 0.21 Mbps)
Flow 3 ingress (mean 0.22 Mbps) - Flow 3 egress (mean 0.22 Mbps)

Flow 1 (95th percentile 50.35 ms) - Flow 2 (95th percentile 53.59 ms) - Flow 3 (95th percentile 53.77 ms)
Run 7: Statistics of SCReAM

Start at: 2018-06-07 19:08:06
End at: 2018-06-07 19:08:36
Local clock offset: -0.362 ms
Remote clock offset: -0.403 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.660 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.265 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 49.985 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.726 ms
  Loss rate: 0.74%
Run 7: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.23 Mbps)
- Flow 2 ingress (mean 0.21 Mbps)
- Flow 2 egress (mean 0.23 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

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

- Flow 1 (95th percentile 53.27 ms)
- Flow 2 (95th percentile 49.98 ms)
- Flow 3 (95th percentile 51.73 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-07 19:30:46
End at: 2018-06-07 19:31:16
Local clock offset: -0.078 ms
Remote clock offset: -0.617 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.989 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.332 ms
Loss rate: 1.09%
Run 8: Report of SCReAM — Data Link

![Graph showing data link throughput over time](image)

![Graph showing packet end-to-end delay over time](image)

- Flow 1 (95th percentile 53.99 ms)
- Flow 2 (95th percentile 53.96 ms)
- Flow 3 (95th percentile 50.33 ms)
Run 9: Statistics of SCReAM

Start at: 2018-06-07 19:53:10
End at: 2018-06-07 19:53:40
Local clock offset: -0.378 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.266 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.254 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.286 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.106 ms
  Loss rate: 0.73%
Run 9: Report of SCReAM — Data Link

The graphs show the throughput and per-packet one-way delay over time for three different flows (Flow 1, Flow 2, and Flow 3). The throughput graphs display the data rate in Mbps across various time intervals, while the per-packet delay graphs illustrate the delay time in milliseconds. The data indicates stable throughput with minimal variation and consistent delay times, suggesting efficient data transmission and minimal latency.
Run 10: Statistics of SCReAM

Start at: 2018-06-07 20:15:47
End at: 2018-06-07 20:16:17
Local clock offset: -0.351 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.107 ms
Loss rate: 1.10%
Run 10: Report of SCReAM — Data Link

![Graph showing throughput and packet delay over time for different flow types and directions.]

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.22 Mbit/s)
- Flow 2 egress (mean 0.22 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)

- Flow 1 (95th percentile 53.74 ms)
- Flow 2 (95th percentile 53.72 ms)
- Flow 3 (95th percentile 50.11 ms)
Run 1: Statistics of Sprout

Start at: 2018-06-07 16:46:43
End at: 2018-06-07 16:47:13
Local clock offset: -0.123 ms
Remote clock offset: -0.978 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 50.700 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 7.18 Mbit/s
95th percentile per-packet one-way delay: 50.789 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 50.590 ms
Loss rate: 0.78%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-06-07 17:09:06
End at: 2018-06-07 17:09:36
Local clock offset: -0.129 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 50.601 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 50.581 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 53.516 ms
Loss rate: 1.26%
Run 2: Report of Sprout — Data Link

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

Start at: 2018-06-07 17:32:12
End at: 2018-06-07 17:32:42
Local clock offset: -0.24 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 53.223 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 53.192 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 50.276 ms
Loss rate: 1.26%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-06-07 17:55:10
End at: 2018-06-07 17:55:40
Local clock offset: 0.128 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.09 Mbit/s
  95th percentile per-packet one-way delay: 50.840 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 7.09 Mbit/s
  95th percentile per-packet one-way delay: 50.828 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 7.13 Mbit/s
  95th percentile per-packet one-way delay: 50.799 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 6.91 Mbit/s
  95th percentile per-packet one-way delay: 50.933 ms
  Loss rate: 1.32%
Run 4: Report of Sprout — Data Link

**Graph 1:**
- Throughput (Mbit/s) vs Time (s)
- Legend:
  - Blue dashed: Flow 1 ingress (mean 7.09 Mbit/s)
  - Blue solid: Flow 1 egress (mean 7.09 Mbit/s)
  - Green dashed: Flow 2 ingress (mean 7.13 Mbit/s)
  - Green solid: Flow 2 egress (mean 7.13 Mbit/s)
  - Red dashed: Flow 3 ingress (mean 6.95 Mbit/s)
  - Red solid: Flow 3 egress (mean 6.91 Mbit/s)

**Graph 2:**
- Per-packet one-way delay (ms) vs Time (s)
- Legend:
  - Blue: Flow 1 (95th percentile 50.83 ms)
  - Green: Flow 2 (95th percentile 50.80 ms)
  - Red: Flow 3 (95th percentile 50.93 ms)
Run 5: Statistics of Sprout

Start at: 2018-06-07 18:17:49
End at: 2018-06-07 18:18:19
Local clock offset: -0.108 ms
Remote clock offset: 0.532 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 50.651 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 50.791 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 50.726 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 6.76 Mbit/s
95th percentile per-packet one-way delay: 50.500 ms
Loss rate: 1.03%
Run 5: Report of Sprout — Data Link

[Graphs showing network traffic and latency over time for different flows.]

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Run 6: Statistics of Sprout

Start at: 2018-06-07 18:40:43
End at: 2018-06-07 18:41:13
Local clock offset: -0.136 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 53.571 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 50.631 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 53.412 ms
Loss rate: 1.48%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-06-07 19:04:12
End at: 2018-06-07 19:04:42
Local clock offset: 0.019 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 50.765 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 53.461 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 50.408 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 3.45 Mbit/s
95th percentile per-packet one-way delay: 50.495 ms
Loss rate: 2.78%
Run 7: Report of Sprout — Data Link

![Graph showing network performance metrics]

- **Flow 1 ingress (mean 5.50 Mbit/s)**
- **Flow 1 egress (mean 5.53 Mbit/s)**
- **Flow 2 ingress (mean 7.03 Mbit/s)**
- **Flow 2 egress (mean 7.02 Mbit/s)**
- **Flow 3 ingress (mean 3.51 Mbit/s)**
- **Flow 3 egress (mean 3.45 Mbit/s)**

![Graph showing packet error rates]

- **Flow 1 (95th percentile 53.46 ms)**
- **Flow 2 (95th percentile 50.41 ms)**
- **Flow 3 (95th percentile 50.49 ms)**
Run 8: Statistics of Sprout

Start at: 2018-06-07 19:26:50
Local clock offset: -0.116 ms
Remote clock offset: -0.473 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 12.82 Mbit/s
  95th percentile per-packet one-way delay: 50.883 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 6.51 Mbit/s
  95th percentile per-packet one-way delay: 53.648 ms
  Loss rate: 0.19%
-- Flow 2:
  Average throughput: 6.94 Mbit/s
  95th percentile per-packet one-way delay: 50.683 ms
  Loss rate: 0.37%
-- Flow 3:
  Average throughput: 5.21 Mbit/s
  95th percentile per-packet one-way delay: 50.928 ms
  Loss rate: 2.27%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-06-07 19:49:16
End at: 2018-06-07 19:49:46
Local clock offset: 0.128 ms
Remote clock offset: -0.307 ms

#Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.23 Mbit/s
  95th percentile per-packet one-way delay: 51.088 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 6.84 Mbit/s
  95th percentile per-packet one-way delay: 51.216 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 7.23 Mbit/s
  95th percentile per-packet one-way delay: 51.117 ms
  Loss rate: 0.37%
-- Flow 3:
  Average throughput: 4.86 Mbit/s
  95th percentile per-packet one-way delay: 50.736 ms
  Loss rate: 1.76%
Run 9: Report of Sprout — Data Link

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

Legend:
- Flow 1 ingress (mean 6.85 Mbit/s)
- Flow 1 egress (mean 6.84 Mbit/s)
- Flow 2 ingress (mean 7.23 Mbit/s)
- Flow 2 egress (mean 7.23 Mbit/s)
- Flow 3 ingress (mean 4.90 Mbit/s)
- Flow 3 egress (mean 4.86 Mbit/s)
Run 10: Statistics of Sprout

Start at: 2018-06-07 20:11:52
End at: 2018-06-07 20:12:22
Local clock offset: 0.017 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-06-07 22:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 51.370 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 51.076 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 51.263 ms
Loss rate: 0.70%
Run 10: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 6.40 Mbit/s)
Flow 1 egress (mean 6.41 Mbit/s)
Flow 2 ingress (mean 7.49 Mbit/s)
Flow 2 egress (mean 7.47 Mbit/s)
Flow 3 ingress (mean 7.08 Mbit/s)
Flow 3 egress (mean 7.11 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 53.86 ms)
Flow 2 (95th percentile 51.08 ms)
Flow 3 (95th percentile 51.26 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 16:35:35
End at: 2018-06-07 16:36:05
Local clock offset: 0.324 ms
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-06-07 22:15:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 215.31 Mbit/s
  95th percentile per-packet one-way delay: 54.371 ms
  Loss rate: 0.55%
  -- Flow 1:
  Average throughput: 49.58 Mbit/s
  95th percentile per-packet one-way delay: 54.008 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 188.73 Mbit/s
  95th percentile per-packet one-way delay: 52.981 ms
  Loss rate: 0.71%
  -- Flow 3:
  Average throughput: 202.01 Mbit/s
  95th percentile per-packet one-way delay: 55.950 ms
  Loss rate: 0.45%
Run 1: Report of TaoVA-100x — Data Link

[Graph showing throughput and latency over time for different flows]
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 16:58:14
End at: 2018-06-07 16:58:44
Local clock offset: -0.196 ms
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2018-06-07 22:15:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.58 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 34.36 Mbit/s
95th percentile per-packet one-way delay: 53.015 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 111.78 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.06 Mbit/s
95th percentile per-packet one-way delay: 55.180 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

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

![Graph 2: Per packet one way delay (ms)](image)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 17:20:41
End at: 2018-06-07 17:21:11
Local clock offset: -0.545 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-06-07 22:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.86 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 207.53 Mbit/s
95th percentile per-packet one-way delay: 50.222 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 54.141 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 225.25 Mbit/s
95th percentile per-packet one-way delay: 59.772 ms
Loss rate: 1.06%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 207.50 Mbit/s)  Flow 1 egress (mean 207.53 Mbit/s)
Flow 2 ingress (mean 73.07 Mbit/s)  Flow 2 egress (mean 73.60 Mbit/s)
Flow 3 ingress (mean 225.28 Mbit/s)  Flow 3 egress (mean 225.25 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.22 ms)  Flow 2 (95th percentile 54.14 ms)  Flow 3 (95th percentile 59.77 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 17:43:52
End at: 2018-06-07 17:44:22
Local clock offset: 0.37 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-06-07 22:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.04 Mbit/s
95th percentile per-packet one-way delay: 56.797 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 117.18 Mbit/s
95th percentile per-packet one-way delay: 54.079 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 54.159 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 110.46 Mbit/s
95th percentile per-packet one-way delay: 59.037 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows with their respective mean speeds and latency values]
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 18:06:46
End at: 2018-06-07 18:07:16
Local clock offset: 0.066 ms
Remote clock offset: 0.355 ms

# Below is generated by plot.py at 2018-06-07 22:19:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 172.27 Mbit/s
  95th percentile per-packet one-way delay: 53.399 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 92.93 Mbit/s
  95th percentile per-packet one-way delay: 53.306 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 110.51 Mbit/s
  95th percentile per-packet one-way delay: 52.499 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 17.78 Mbit/s
  95th percentile per-packet one-way delay: 53.900 ms
  Loss rate: 0.66%
Run 5: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet delay over time for different flows.]
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 18:29:19
End at: 2018-06-07 18:29:49
Local clock offset: -0.429 ms
Remote clock offset: 0.497 ms

# Below is generated by plot.py at 2018-06-07 22:20:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.11 Mbit/s
95th percentile per-packet one-way delay: 50.568 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 255.22 Mbit/s
95th percentile per-packet one-way delay: 50.282 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 54.016 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 236.76 Mbit/s
95th percentile per-packet one-way delay: 50.721 ms
Loss rate: 1.12%
Run 6: Report of TaoVA-100x — Data Link

![Graph of throughputs and packet delays over time.](image)

- **Throughput Graph**: Shows mean throughputs for flows 1, 2, and 3 with their respective ingress and egress rates.
- **Packet Delay Graph**: Displays per-packet one-way delays for the same flows.

Legend:
- Flow 1 ingress (mean 255.28 Mbit/s)
- Flow 1 egress (mean 255.22 Mbit/s)
- Flow 2 ingress (mean 13.06 Mbit/s)
- Flow 2 egress (mean 13.06 Mbit/s)
- Flow 3 ingress (mean 237.02 Mbit/s)
- Flow 3 egress (mean 236.76 Mbit/s)

For Flow 1:
- 95th percentile delay: 50.28 ms

For Flow 2:
- 95th percentile delay: 54.02 ms

For Flow 3:
- 95th percentile delay: 50.72 ms
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 18:52:19  
End at: 2018-06-07 18:52:49  
Local clock offset: -0.041 ms  
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-06-07 22:23:13  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 399.76 Mbit/s  
95th percentile per-packet one-way delay: 61.603 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 208.05 Mbit/s  
95th percentile per-packet one-way delay: 55.698 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 207.97 Mbit/s  
95th percentile per-packet one-way delay: 62.771 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 161.83 Mbit/s  
95th percentile per-packet one-way delay: 71.740 ms  
Loss rate: 1.28%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

End at: 2018-06-07 19:16:18
Local clock offset: -0.183 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 183.98 Mbit/s
  95th percentile per-packet one-way delay: 52.913 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 14.96 Mbit/s
  95th percentile per-packet one-way delay: 53.076 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 234.74 Mbit/s
  95th percentile per-packet one-way delay: 50.197 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 39.10 Mbit/s
  95th percentile per-packet one-way delay: 54.095 ms
  Loss rate: 0.37%
Run 8: Report of TaoVA-100x — Data Link

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**Graph 1:**
Throughput (Mbps) over time (s)
- Flow 1 ingress (mean 14.05 Mbps)
- Flow 2 ingress (mean 234.84 Mbps)
- Flow 3 ingress (mean 38.86 Mbps)
- Flow 1 egress (mean 14.96 Mbps)
- Flow 2 egress (mean 234.74 Mbps)
- Flow 3 egress (mean 39.10 Mbps)

**Graph 2:**
Per-packet one-way delay (ms) over time (s)
- Flow 1 (95th percentile 53.08 ms)
- Flow 2 (95th percentile 50.20 ms)
- Flow 3 (95th percentile 54.09 ms)

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Run 9: Statistics of TaoVA-100x

End at: 2018-06-07 19:38:53
Local clock offset: 0.079 ms
Remote clock offset: -0.436 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 18.15 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 25.75 Mbit/s
95th percentile per-packet one-way delay: 54.003 ms
Loss rate: 0.00%
Run 9: Report of TaoVA-100x — Data Link

![Graph showing data link analysis]
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 20:00:52
End at: 2018-06-07 20:01:22
Local clock offset: -0.247 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.43 Mbit/s
  95th percentile per-packet one-way delay: 53.647 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 8.67 Mbit/s
  95th percentile per-packet one-way delay: 53.713 ms
  Loss rate: 0.23%
-- Flow 2:
  Average throughput: 51.07 Mbit/s
  95th percentile per-packet one-way delay: 53.711 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 74.80 Mbit/s
  95th percentile per-packet one-way delay: 53.454 ms
  Loss rate: 1.17%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 16:34:15
End at: 2018-06-07 16:34:45
Local clock offset: -0.014 ms
Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 244.99 Mbit/s
  95th percentile per-packet one-way delay: 57.291 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 213.38 Mbit/s
  95th percentile per-packet one-way delay: 57.168 ms
  Loss rate: 0.14%
-- Flow 2:
  Average throughput: 6.08 Mbit/s
  95th percentile per-packet one-way delay: 56.531 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 84.02 Mbit/s
  95th percentile per-packet one-way delay: 60.077 ms
  Loss rate: 1.01%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 16:57:00
End at: 2018-06-07 16:57:30
Local clock offset: 0.006 ms
Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 118.62 Mbit/s
  95th percentile per-packet one-way delay: 51.998 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 50.25 Mbit/s
  95th percentile per-packet one-way delay: 51.896 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 67.03 Mbit/s
  95th percentile per-packet one-way delay: 51.950 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 72.22 Mbit/s
  95th percentile per-packet one-way delay: 52.440 ms
  Loss rate: 0.91%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 17:19:22
End at: 2018-06-07 17:19:52
Local clock offset: -0.351 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 210.93 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 130.70 Mbit/s
95th percentile per-packet one-way delay: 51.276 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 82.24 Mbit/s
95th percentile per-packet one-way delay: 51.161 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 51.894 ms
Loss rate: 1.12%
Run 3: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 130.72 Mbit/s)
- Flow 1 egress (mean 130.70 Mbit/s)
- Flow 2 ingress (mean 82.27 Mbit/s)
- Flow 2 egress (mean 82.24 Mbit/s)
- Flow 3 ingress (mean 77.43 Mbit/s)
- Flow 3 egress (mean 77.43 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 51.28 ms)
- Flow 2 (95th percentile 51.16 ms)
- Flow 3 (95th percentile 51.89 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 17:42:33
End at: 2018-06-07 17:43:03
Local clock offset: -0.405 ms
Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.34 Mbit/s
95th percentile per-packet one-way delay: 56.992 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 213.69 Mbit/s
95th percentile per-packet one-way delay: 57.036 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 54.484 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 2.24%
Run 4: Report of TCP Vegas — Data Link

![Graph 1: Throughput vs. Time]

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

- Flow 1 ingress (mean 213.30 Mbit/s)
- Flow 1 egress (mean 213.69 Mbit/s)
- Flow 2 ingress (mean 10.00 Mbit/s)
- Flow 2 egress (mean 10.54 Mbit/s)
- Flow 3 ingress (mean 5.43 Mbit/s)
- Flow 3 egress (mean 5.37 Mbit/s)

- Flow 1 (95th percentile 57.04 ms)
- Flow 2 (95th percentile 54.48 ms)
- Flow 3 (95th percentile 53.84 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 18:05:28
End at: 2018-06-07 18:05:58
Local clock offset: -0.136 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.12 Mbit/s
95th percentile per-packet one-way delay: 55.637 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 54.842 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 67.15 Mbit/s
95th percentile per-packet one-way delay: 54.626 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 222.22 Mbit/s
95th percentile per-packet one-way delay: 56.566 ms
Loss rate: 1.13%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 18:28:03
End at: 2018-06-07 18:28:33
Local clock offset: -0.048 ms
Remote clock offset: 0.557 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 144.13 Mbit/s
95th percentile per-packet one-way delay: 51.426 ms
Loss rate: 0.52%

-- Flow 1:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 0.28%

-- Flow 2:
Average throughput: 69.19 Mbit/s
95th percentile per-packet one-way delay: 51.301 ms
Loss rate: 0.59%

-- Flow 3:
Average throughput: 72.70 Mbit/s
95th percentile per-packet one-way delay: 51.309 ms
Loss rate: 1.14%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 18:51:04
End at: 2018-06-07 18:51:34
Local clock offset: -0.013 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 149.89 Mbit/s
  95th percentile per-packet one-way delay: 51.674 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 70.73 Mbit/s
  95th percentile per-packet one-way delay: 51.467 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 85.57 Mbit/s
  95th percentile per-packet one-way delay: 51.810 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 67.83 Mbit/s
  95th percentile per-packet one-way delay: 52.098 ms
  Loss rate: 1.12%
Run 7: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 70.74 Mbps)
- Flow 1 egress (mean 70.73 Mbps)
- Flow 2 ingress (mean 85.56 Mbps)
- Flow 2 egress (mean 85.57 Mbps)
- Flow 3 ingress (mean 67.89 Mbps)
- Flow 3 egress (mean 67.83 Mbps)

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

- Flow 1 (95th percentile 51.47 ms)
- Flow 2 (95th percentile 51.81 ms)
- Flow 3 (95th percentile 52.10 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 19:14:32
End at: 2018-06-07 19:15:02
Local clock offset: 0.277 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 165.86 Mbit/s
  95th percentile per-packet one-way delay: 51.900 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 79.42 Mbit/s
  95th percentile per-packet one-way delay: 51.912 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 81.35 Mbit/s
  95th percentile per-packet one-way delay: 51.723 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 98.12 Mbit/s
  95th percentile per-packet one-way delay: 53.001 ms
  Loss rate: 1.14%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 19:37:09
End at: 2018-06-07 19:37:39
Local clock offset: -0.165 ms
Remote clock offset: -0.405 ms

# Below is generated by plot.py at 2018-06-07 22:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.73 Mbit/s
95th percentile per-packet one-way delay: 51.226 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 73.59 Mbit/s
95th percentile per-packet one-way delay: 51.075 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 51.759 ms
Loss rate: 1.12%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 19:59:33  
End at: 2018-06-07 20:00:03  
Local clock offset: -0.2 ms  
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-06-07 22:23:13  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 221.79 Mbit/s  
  95th percentile per-packet one-way delay: 58.040 ms  
  Loss rate: 0.65%  
-- Flow 1:  
  Average throughput: 63.62 Mbit/s  
  95th percentile per-packet one-way delay: 55.217 ms  
  Loss rate: 0.34%  
-- Flow 2:  
  Average throughput: 133.15 Mbit/s  
  95th percentile per-packet one-way delay: 57.610 ms  
  Loss rate: 0.51%  
-- Flow 3:  
  Average throughput: 211.23 Mbit/s  
  95th percentile per-packet one-way delay: 58.915 ms  
  Loss rate: 1.09%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-06-07 16:31:21
End at: 2018-06-07 16:31:51
Local clock offset: -0.057 ms
Remote clock offset: -1.131 ms

# Below is generated by plot.py at 2018-06-07 22:26:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 376.64 Mbit/s
  95th percentile per-packet one-way delay: 211.945 ms
  Loss rate: 4.36%
-- Flow 1:
  Average throughput: 232.95 Mbit/s
  95th percentile per-packet one-way delay: 190.907 ms
  Loss rate: 2.47%
-- Flow 2:
  Average throughput: 197.81 Mbit/s
  95th percentile per-packet one-way delay: 238.785 ms
  Loss rate: 7.78%
-- Flow 3:
  Average throughput: 36.56 Mbit/s
  95th percentile per-packet one-way delay: 170.067 ms
  Loss rate: 1.58%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-06-07 16:54:06
End at: 2018-06-07 16:54:36
Local clock offset: -0.194 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2018-06-07 22:26:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 368.18 Mbit/s
  95th percentile per-packet one-way delay: 130.688 ms
  Loss rate: 0.73%
-- Flow 1:
  Average throughput: 197.75 Mbit/s
  95th percentile per-packet one-way delay: 110.841 ms
  Loss rate: 0.82%
-- Flow 2:
  Average throughput: 172.00 Mbit/s
  95th percentile per-packet one-way delay: 162.400 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 171.74 Mbit/s
  95th percentile per-packet one-way delay: 123.641 ms
  Loss rate: 1.57%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-06-07 17:16:29
End at: 2018-06-07 17:16:59
Local clock offset: -0.082 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-07 22:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 375.26 Mbit/s
95th percentile per-packet one-way delay: 129.928 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 195.41 Mbit/s
95th percentile per-packet one-way delay: 115.158 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 218.75 Mbit/s
95th percentile per-packet one-way delay: 120.030 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 117.82 Mbit/s
95th percentile per-packet one-way delay: 292.125 ms
Loss rate: 8.54%
Run 3: Report of Verus — Data Link

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

Start at: 2018-06-07 17:39:36
End at: 2018-06-07 17:40:06
Local clock offset: 0.141 ms
Remote clock offset: 0.363 ms

# Below is generated by plot.py at 2018-06-07 22:26:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 353.80 Mbit/s
  95th percentile per-packet one-way delay: 105.607 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 198.62 Mbit/s
  95th percentile per-packet one-way delay: 82.908 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 174.52 Mbit/s
  95th percentile per-packet one-way delay: 123.709 ms
  Loss rate: 0.78%
-- Flow 3:
  Average throughput: 119.20 Mbit/s
  95th percentile per-packet one-way delay: 159.269 ms
  Loss rate: 1.16%
Run 4: Report of Verus — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 198.67 Mbps)
  - Flow 1 egress (mean 198.62 Mbps)
  - Flow 2 ingress (mean 174.94 Mbps)
  - Flow 2 egress (mean 174.52 Mbps)
  - Flow 3 ingress (mean 119.34 Mbps)
  - Flow 3 egress (mean 119.20 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 82.91 ms)
  - Flow 2 (95th percentile 123.71 ms)
  - Flow 3 (95th percentile 159.27 ms)
Run 5: Statistics of Verus

Start at: 2018-06-07 18:02:36  
End at: 2018-06-07 18:03:06  
Local clock offset: 0.323 ms  
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-06-07 22:27:38  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.99 Mbit/s  
95th percentile per-packet one-way delay: 176.194 ms  
Loss rate: 1.88%  
-- Flow 1:
Average throughput: 195.39 Mbit/s  
95th percentile per-packet one-way delay: 115.548 ms  
Loss rate: 0.52%  
-- Flow 2:
Average throughput: 197.41 Mbit/s  
95th percentile per-packet one-way delay: 185.185 ms  
Loss rate: 3.40%  
-- Flow 3:
Average throughput: 143.99 Mbit/s  
95th percentile per-packet one-way delay: 201.024 ms  
Loss rate: 3.09%
Run 5: Report of Verus — Data Link

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

*Legend for throughput graph:*
- Flow 1 ingress (mean 195.86 Mbit/s)
- Flow 1 egress (mean 195.39 Mbit/s)
- Flow 2 ingress (mean 203.30 Mbit/s)
- Flow 2 egress (mean 197.41 Mbit/s)
- Flow 3 ingress (mean 147.38 Mbit/s)
- Flow 3 egress (mean 143.99 Mbit/s)

*Legend for packet delay graph:*
- Flow 1 (95th percentile 115.55 ms)
- Flow 2 (95th percentile 185.19 ms)
- Flow 3 (95th percentile 201.02 ms)
Run 6: Statistics of Verus

Start at: 2018-06-07 18:25:14
End at: 2018-06-07 18:25:44
Local clock offset: -0.116 ms
Remote clock offset: 0.412 ms

# Below is generated by plot.py at 2018-06-07 22:27:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.49 Mbit/s
95th percentile per-packet one-way delay: 140.923 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 233.19 Mbit/s
95th percentile per-packet one-way delay: 154.256 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 114.01 Mbit/s
95th percentile per-packet one-way delay: 105.094 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 130.551 ms
Loss rate: 2.64%
Run 6: Report of Verus — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 233.13 Mbps)
- Flow 1 egress (mean 233.19 Mbps)
- Flow 2 ingress (mean 114.60 Mbps)
- Flow 2 egress (mean 114.01 Mbps)
- Flow 3 ingress (mean 63.85 Mbps)
- Flow 3 egress (mean 63.32 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 154.26 ms)
- Flow 2 (95th percentile 105.09 ms)
- Flow 3 (95th percentile 130.55 ms)
Run 7: Statistics of Verus

Start at: 2018-06-07 18:48:08
End at: 2018-06-07 18:48:38
Local clock offset: -0.056 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-06-07 22:29:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 364.97 Mbit/s
  95th percentile per-packet one-way delay: 113.541 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 219.12 Mbit/s
  95th percentile per-packet one-way delay: 106.816 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 161.41 Mbit/s
  95th percentile per-packet one-way delay: 119.274 ms
  Loss rate: 0.79%
-- Flow 3:
  Average throughput: 116.47 Mbit/s
  95th percentile per-packet one-way delay: 126.665 ms
  Loss rate: 1.24%
Run 7: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 219.50 Mbps)  Flow 1 egress (mean 219.12 Mbps)
Flow 2 ingress (mean 162.16 Mbps)  Flow 2 egress (mean 161.41 Mbps)
Flow 3 ingress (mean 116.09 Mbps)  Flow 3 egress (mean 116.47 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 106.82 ms)  Flow 2 (95th percentile 119.27 ms)  Flow 3 (95th percentile 126.67 ms)
Run 8: Statistics of Verus

Start at: 2018-06-07 19:11:37
End at: 2018-06-07 19:12:07
Local clock offset: 0.038 ms
Remote clock offset: -0.603 ms

# Below is generated by plot.py at 2018-06-07 22:30:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 386.14 Mbit/s
  95th percentile per-packet one-way delay: 148.927 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 267.02 Mbit/s
  95th percentile per-packet one-way delay: 154.676 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 118.35 Mbit/s
  95th percentile per-packet one-way delay: 132.137 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 124.02 Mbit/s
  95th percentile per-packet one-way delay: 127.287 ms
  Loss rate: 1.17%
Run 8: Report of Verus — Data Link

![Graph](Image)

- Flow 1 ingress (mean 266.39 Mbit/s)
- Flow 1 egress (mean 267.02 Mbit/s)
- Flow 2 ingress (mean 118.74 Mbit/s)
- Flow 2 egress (mean 118.35 Mbit/s)
- Flow 3 ingress (mean 124.78 Mbit/s)
- Flow 3 egress (mean 124.02 Mbit/s)

![Graph](Image)

- Flow 1 (95th percentile 154.68 ms)
- Flow 2 (95th percentile 132.14 ms)
- Flow 3 (95th percentile 127.29 ms)
Run 9: Statistics of Verus

Start at: 2018-06-07 19:34:16
End at: 2018-06-07 19:34:46
Local clock offset: 0.129 ms
Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-06-07 22:32:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 126.840 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 262.99 Mbit/s
95th percentile per-packet one-way delay: 129.365 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 124.449 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 102.78 Mbit/s
95th percentile per-packet one-way delay: 124.696 ms
Loss rate: 0.56%
Run 9: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

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

Flow 1 ingress (mean 262.87 Mbps)  
Flow 1 egress (mean 262.99 Mbps)  
Flow 2 ingress (mean 110.71 Mbps)  
Flow 2 egress (mean 109.47 Mbps)  
Flow 3 ingress (mean 104.32 Mbps)  
Flow 3 egress (mean 102.78 Mbps)  

Flow 1 (95th percentile 129.37 ms)  
Flow 2 (95th percentile 124.45 ms)  
Flow 3 (95th percentile 124.70 ms)
Run 10: Statistics of Verus

Start at: 2018-06-07 19:56:40
End at: 2018-06-07 19:57:10
Local clock offset: 0.259 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-07 22:32:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.35 Mbit/s
95th percentile per-packet one-way delay: 103.800 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 249.89 Mbit/s
95th percentile per-packet one-way delay: 101.044 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 177.20 Mbit/s
95th percentile per-packet one-way delay: 104.988 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 110.443 ms
Loss rate: 0.11%
Run 10: Report of Verus — Data Link

**Throughput** (Mbps):

- **Flow 1 ingress** (mean 250.24 Mbps)
- **Flow 1 egress** (mean 249.89 Mbps)
- **Flow 2 ingress** (mean 168.81 Mbps)
- **Flow 2 egress** (mean 177.20 Mbps)
- **Flow 3 ingress** (mean 89.63 Mbps)
- **Flow 3 egress** (mean 90.70 Mbps)

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

- **Flow 1** (95th percentile 101.04 ms)
- **Flow 2** (95th percentile 104.49 ms)
- **Flow 3** (95th percentile 110.44 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 16:44:58
End at: 2018-06-07 16:45:28
Local clock offset: 0.114 ms
Remote clock offset: -0.891 ms

# Below is generated by plot.py at 2018-06-07 22:36:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 538.19 Mbit/s
  95th percentile per-packet one-way delay: 82.157 ms
  Loss rate: 0.96%
-- Flow 1:
  Average throughput: 291.11 Mbit/s
  95th percentile per-packet one-way delay: 54.636 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 295.06 Mbit/s
  95th percentile per-packet one-way delay: 181.909 ms
  Loss rate: 1.80%
-- Flow 3:
  Average throughput: 156.35 Mbit/s
  95th percentile per-packet one-way delay: 58.181 ms
  Loss rate: 1.21%
Run 1: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 291.12 Mbit/s)
- Flow 1 egress (mean 291.11 Mbit/s)
- Flow 2 ingress (mean 298.89 Mbit/s)
- Flow 2 egress (mean 295.06 Mbit/s)
- Flow 3 ingress (mean 156.65 Mbit/s)
- Flow 3 egress (mean 156.35 Mbit/s)

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

- Flow 1 (95th percentile 54.64 ms)
- Flow 2 (95th percentile 181.91 ms)
- Flow 3 (95th percentile 58.18 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 17:07:20
End at: 2018-06-07 17:07:50
Local clock offset: 0.068 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-07 22:36:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.51 Mbit/s
95th percentile per-packet one-way delay: 58.593 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 322.25 Mbit/s
95th percentile per-packet one-way delay: 55.586 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 288.48 Mbit/s
95th percentile per-packet one-way delay: 72.045 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 176.44 Mbit/s
95th percentile per-packet one-way delay: 55.638 ms
Loss rate: 1.27%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay over time for different flows with mean speeds and 95th percentile delays indicated.](image-url)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 17:30:28
End at: 2018-06-07 17:30:58
Local clock offset: 0.057 ms
Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2018-06-07 22:36:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 519.76 Mbit/s
  95th percentile per-packet one-way delay: 73.652 ms
  Loss rate: 0.71%
-- Flow 1:
  Average throughput: 308.03 Mbit/s
  95th percentile per-packet one-way delay: 104.282 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 223.31 Mbit/s
  95th percentile per-packet one-way delay: 54.609 ms
  Loss rate: 0.86%
-- Flow 3:
  Average throughput: 193.92 Mbit/s
  95th percentile per-packet one-way delay: 55.189 ms
  Loss rate: 1.93%
Run 3: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 308.14 Mbps)
Flow 1 egress (mean 308.03 Mbps)
Flow 2 ingress (mean 224.03 Mbps)
Flow 2 egress (mean 223.31 Mbps)
Flow 3 ingress (mean 195.57 Mbps)
Flow 3 egress (mean 193.92 Mbps)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 104.28 ms)
Flow 2 (95th percentile 54.61 ms)
Flow 3 (95th percentile 55.19 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 17:53:26
End at: 2018-06-07 17:53:56
Local clock offset: 0.072 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-07 22:37:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.20 Mbit/s
95th percentile per-packet one-way delay: 56.515 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 334.62 Mbit/s
95th percentile per-packet one-way delay: 57.488 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 255.58 Mbit/s
95th percentile per-packet one-way delay: 53.634 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 85.29 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 1.34%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 18:16:04
End at: 2018-06-07 18:16:34
Local clock offset: -0.11 ms
Remote clock offset: 0.469 ms

# Below is generated by plot.py at 2018-06-07 22:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 550.36 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 321.29 Mbit/s
95th percentile per-packet one-way delay: 51.681 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 259.14 Mbit/s
95th percentile per-packet one-way delay: 54.930 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 174.29 Mbit/s
95th percentile per-packet one-way delay: 52.039 ms
Loss rate: 1.34%
Run 5: Report of PCC-Vivace — Data Link

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

- **Throughput (Mbps):**
  - Blue dashed line: Flow 1 ingress (mean 321.00 Mbps)
  - Blue solid line: Flow 1 egress (mean 321.29 Mbps)
  - Green dashed line: Flow 2 ingress (mean 259.44 Mbps)
  - Green solid line: Flow 2 egress (mean 259.14 Mbps)
  - Red dashed line: Flow 3 ingress (mean 174.81 Mbps)
  - Red solid line: Flow 3 egress (mean 174.29 Mbps)

- **Packet delay (ms):**
  - Blue line: Flow 1 (95th percentile 51.68 ms)
  - Green line: Flow 2 (95th percentile 54.93 ms)
  - Red line: Flow 3 (95th percentile 52.04 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 18:38:56
End at: 2018-06-07 18:39:26
Local clock offset: -0.2 ms
Remote clock offset: 0.496 ms

# Below is generated by plot.py at 2018-06-07 22:39:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.81 Mbit/s
95th percentile per-packet one-way delay: 54.543 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 332.44 Mbit/s
95th percentile per-packet one-way delay: 54.217 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 267.47 Mbit/s
95th percentile per-packet one-way delay: 54.389 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 210.04 Mbit/s
95th percentile per-packet one-way delay: 55.216 ms
Loss rate: 1.42%
Run 6: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 332.07 Mbit/s)
- Flow 1 egress (mean 332.44 Mbit/s)
- Flow 2 ingress (mean 267.61 Mbit/s)
- Flow 2 egress (mean 267.47 Mbit/s)
- Flow 3 ingress (mean 210.78 Mbit/s)
- Flow 3 egress (mean 210.04 Mbit/s)

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

- Flow 1 (95th percentile 54.22 ms)
- Flow 2 (95th percentile 54.39 ms)
- Flow 3 (95th percentile 55.22 ms)
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 19:02:23
End at: 2018-06-07 19:02:53
Local clock offset: 0.363 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-06-07 22:41:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 592.70 Mbit/s
95th percentile per-packet one-way delay: 56.573 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 360.56 Mbit/s
95th percentile per-packet one-way delay: 57.095 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 265.40 Mbit/s
95th percentile per-packet one-way delay: 56.084 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 170.69 Mbit/s
95th percentile per-packet one-way delay: 53.161 ms
Loss rate: 1.18%
Run 7: Report of PCC-Vivace — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 360.34 Mbps)
  - Flow 1 egress (mean 360.56 Mbps)
  - Flow 2 ingress (mean 265.42 Mbps)
  - Flow 2 egress (mean 265.40 Mbps)
  - Flow 3 ingress (mean 170.90 Mbps)
  - Flow 3 egress (mean 170.69 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 57.09 ms)
  - Flow 2 (95th percentile 56.08 ms)
  - Flow 3 (95th percentile 53.16 ms)
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 19:25:02
End at: 2018-06-07 19:25:32
Local clock offset: 0.281 ms
Remote clock offset: -0.724 ms

# Below is generated by plot.py at 2018-06-07 22:41:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 595.35 Mbit/s
  95th percentile per-packet one-way delay: 55.697 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 337.22 Mbit/s
  95th percentile per-packet one-way delay: 53.033 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 257.74 Mbit/s
  95th percentile per-packet one-way delay: 55.717 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 265.82 Mbit/s
  95th percentile per-packet one-way delay: 56.664 ms
  Loss rate: 1.24%
Run 8: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 337.24 Mbit/s)
- Flow 1 egress (mean 337.22 Mbit/s)
- Flow 2 ingress (mean 257.85 Mbit/s)
- Flow 2 egress (mean 257.74 Mbit/s)
- Flow 3 ingress (mean 266.26 Mbit/s)
- Flow 3 egress (mean 265.62 Mbit/s)

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

- Flow 1 (95th percentile 53.03 ms)
- Flow 2 (95th percentile 55.72 ms)
- Flow 3 (95th percentile 56.66 ms)
Run 9: Statistics of PCC-Vivace

End at: 2018-06-07 19:48:02
Local clock offset: 0.27 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-07 22:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.89 Mbit/s
95th percentile per-packet one-way delay: 55.030 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 355.43 Mbit/s
95th percentile per-packet one-way delay: 55.780 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 254.72 Mbit/s
95th percentile per-packet one-way delay: 54.506 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 50.444 ms
Loss rate: 1.40%
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 20:10:05
End at: 2018-06-07 20:10:35
Local clock offset: 0.055 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.16 Mbit/s
95th percentile per-packet one-way delay: 56.592 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 385.62 Mbit/s
95th percentile per-packet one-way delay: 52.605 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 298.67 Mbit/s
95th percentile per-packet one-way delay: 59.413 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 46.65 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 1.32%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-06-07 16:30:12
End at: 2018-06-07 16:30:42
Local clock offset: -0.128 ms
Remote clock offset: -1.015 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 53.707 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 1.64%
Run 1: Report of WebRTC media — Data Link

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### Throughput (Mbps)

- **Flow 1 ingress** (mean 1.76 Mbps)
- **Flow 1 egress** (mean 1.76 Mbps)
- **Flow 2 ingress** (mean 1.32 Mbps)
- **Flow 2 egress** (mean 1.31 Mbps)
- **Flow 3 ingress** (mean 0.54 Mbps)
- **Flow 3 egress** (mean 0.54 Mbps)

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### Per packet one way delay [ms]

- **Flow 1** (95th percentile 53.71 ms)
- **Flow 2** (95th percentile 50.64 ms)
- **Flow 3** (95th percentile 54.02 ms)

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Run 2: Statistics of WebRTC media

Start at: 2018-06-07 16:52:57
End at: 2018-06-07 16:53:27
Local clock offset: 0.024 ms
Remote clock offset: -0.661 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 54.036 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 50.640 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 54.074 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.493 ms
Loss rate: 1.61%
Run 2: Report of WebRTC media — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 3: Statistics of WebRTC media

Start at: 2018-06-07 17:15:21
End at: 2018-06-07 17:15:51
Local clock offset: -0.172 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 3.802 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 50.232 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 53.755 ms
Loss rate: 1.13%
Run 3: Report of WebRTC media — Data Link

[Graph 1: Throughput (Mbps) over time for different flows]

[Graph 2: Per packet one way delay (ms) over time for different flows]
Run 4: Statistics of WebRTC media

Start at: 2018-06-07 17:38:27
End at: 2018-06-07 17:38:57
Local clock offset: -0.01 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 54.050 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.078 ms
Loss rate: 1.55%
Run 4: Report of WebRTC media — Data Link

![Graph of WebRTC media throughput and delay]

Throughput (Mbps)
- Flow 1 ingress (mean 2.04 Mbps)
- Flow 1 egress (mean 2.04 Mbps)
- Flow 2 ingress (mean 1.32 Mbps)
- Flow 2 egress (mean 1.31 Mbps)
- Flow 3 ingress (mean 0.55 Mbps)
- Flow 3 egress (mean 0.55 Mbps)

Per packet one way delay (ms)
- Flow 1 (95th percentile 50.96 ms)
- Flow 2 (95th percentile 54.05 ms)
- Flow 3 (95th percentile 51.08 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-06-07 18:01:27
End at: 2018-06-07 18:01:57
Local clock offset: -0.231 ms
Remote clock offset: 0.817 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 3.87 Mbit/s
 95th percentile per-packet one-way delay: 53.153 ms
 Loss rate: 0.55%
-- Flow 1:
 Average throughput: 2.03 Mbit/s
 95th percentile per-packet one-way delay: 53.181 ms
 Loss rate: 0.21%
-- Flow 2:
 Average throughput: 1.30 Mbit/s
 95th percentile per-packet one-way delay: 52.663 ms
 Loss rate: 0.75%
-- Flow 3:
 Average throughput: 0.56 Mbit/s
 95th percentile per-packet one-way delay: 50.007 ms
 Loss rate: 1.38%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

Start at: 2018-06-07 18:24:05
End at: 2018-06-07 18:24:35
Local clock offset: -0.132 ms
Remote clock offset: 0.424 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 54.070 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 53.988 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 54.120 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.386 ms
Loss rate: 1.84%
Run 6: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.04 Mbit/s)
- Flow 1 egress (mean 2.04 Mbit/s)
- Flow 2 ingress (mean 1.31 Mbit/s)
- Flow 2 egress (mean 1.30 Mbit/s)
- Flow 3 ingress (mean 0.55 Mbit/s)
- Flow 3 egress (mean 0.54 Mbit/s)
Run 7: Statistics of WebRTC media

End at: 2018-06-07 18:47:29
Local clock offset: 0.26 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.87 Mbit/s
  95th percentile per-packet one-way delay: 54.211 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 2.01 Mbit/s
  95th percentile per-packet one-way delay: 50.760 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 1.32 Mbit/s
  95th percentile per-packet one-way delay: 54.281 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 0.56 Mbit/s
  95th percentile per-packet one-way delay: 50.775 ms
  Loss rate: 1.52%
Run 7: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.01 Mbit/s)
- Flow 1 egress (mean 2.01 Mbit/s)
- Flow 2 ingress (mean 1.32 Mbit/s)
- Flow 2 egress (mean 1.32 Mbit/s)
- Flow 3 ingress (mean 0.56 Mbit/s)
- Flow 3 egress (mean 0.56 Mbit/s)

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

- Flow 1 (95th percentile 50.76 ms)
- Flow 2 (95th percentile 54.28 ms)
- Flow 3 (95th percentile 50.77 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-06-07 19:10:28
End at: 2018-06-07 19:10:58
Local clock offset: -0.309 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.91 Mbit/s
  95th percentile per-packet one-way delay: 53.479 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 2.05 Mbit/s
  95th percentile per-packet one-way delay: 53.508 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 1.34 Mbit/s
  95th percentile per-packet one-way delay: 50.076 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 0.54 Mbit/s
  95th percentile per-packet one-way delay: 53.446 ms
  Loss rate: 1.64%
Run 8: Report of WebRTC media — Data Link

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

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

Flow 1 ingress (mean 2.05 Mbit/s)  Flow 1 egress (mean 2.05 Mbit/s)
Flow 2 ingress (mean 1.34 Mbit/s)  Flow 2 egress (mean 1.34 Mbit/s)
Flow 3 ingress (mean 0.55 Mbit/s)  Flow 3 egress (mean 0.54 Mbit/s)

Flow 1 (95th percentile 53.51 ms)  Flow 2 (95th percentile 50.08 ms)  Flow 3 (95th percentile 53.45 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-07 19:33:08  
End at: 2018-06-07 19:33:38  
Local clock offset: 0.039 ms  
Remote clock offset: -0.741 ms

# Below is generated by plot.py at 2018-06-07 22:41:51  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 3.88 Mbit/s  
  95th percentile per-packet one-way delay: 51.039 ms  
  Loss rate: 0.71%  
-- Flow 1:  
  Average throughput: 2.04 Mbit/s  
  95th percentile per-packet one-way delay: 50.752 ms  
  Loss rate: 0.47%  
-- Flow 2:  
  Average throughput: 1.33 Mbit/s  
  95th percentile per-packet one-way delay: 51.076 ms  
  Loss rate: 0.91%  
-- Flow 3:  
  Average throughput: 0.54 Mbit/s  
  95th percentile per-packet one-way delay: 50.591 ms  
  Loss rate: 1.15%
Run 10: Statistics of WebRTC media

End at: 2018-06-07 19:56:02
Local clock offset: -0.094 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-06-07 22:41:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.90 Mbit/s
  95th percentile per-packet one-way delay: 53.772 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 2.07 Mbit/s
  95th percentile per-packet one-way delay: 53.773 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 1.31 Mbit/s
  95th percentile per-packet one-way delay: 53.777 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 0.54 Mbit/s
  95th percentile per-packet one-way delay: 53.715 ms
  Loss rate: 1.61%
Run 10: Report of WebRTC media — Data Link

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

![Graph 2: Per-packet round trip delay (ms)](image2)