Pantheon Report

Generated at 2018-06-06 06:31:00 (UTC).
Data path: Colombia Ethernet (remote) → AWS Brazil 2 Ethernet (local).
Repeated the test of 16 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 227fddf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f38f1e1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0edcbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b0b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c83869682f0c19f6baf92afc9a596a406d48c1f
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 @ 2bf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
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<th>mean avg tput (Mbit/s)</th>
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<td>QUIC Cubic</td>
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<td>SCReAM</td>
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<td>PCC-Vivace</td>
<td>10</td>
<td>50.35</td>
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</tr>
<tr>
<td>WebRTC media</td>
<td>10</td>
<td>1.74</td>
<td>0.98</td>
<td>0.38</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-06 02:51:52
End at: 2018-06-06 02:52:22
Local clock offset: -3.138 ms
Remote clock offset: 12.965 ms

# Below is generated by plot.py at 2018-06-06 06:12:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 79.90 Mbit/s
  95th percentile per-packet one-way delay: 114.569 ms
  Loss rate: 2.00%
-- Flow 1:
  Average throughput: 47.30 Mbit/s
  95th percentile per-packet one-way delay: 114.359 ms
  Loss rate: 1.27%
-- Flow 2:
  Average throughput: 35.31 Mbit/s
  95th percentile per-packet one-way delay: 113.853 ms
  Loss rate: 2.59%
-- Flow 3:
  Average throughput: 27.88 Mbit/s
  95th percentile per-packet one-way delay: 115.251 ms
  Loss rate: 4.13%
Run 1: Report of TCP BBR — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 47.64 Mbps)
  - Flow 1 egress (mean 47.30 Mbps)
  - Flow 2 ingress (mean 35.93 Mbps)
  - Flow 2 egress (mean 35.31 Mbps)
  - Flow 3 ingress (mean 28.58 Mbps)
  - Flow 3 egress (mean 27.88 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 114.36 ms)
  - Flow 2 (95th percentile 113.85 ms)
  - Flow 3 (95th percentile 115.25 ms)
Run 2: Statistics of TCP BBR

Start at: 2018-06-06 03:11:51
End at: 2018-06-06 03:12:21
Local clock offset: -1.033 ms
Remote clock offset: 4.09 ms

# Below is generated by plot.py at 2018-06-06 06:12:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 79.84 Mbit/s
  95th percentile per-packet one-way delay: 119.077 ms
  Loss rate: 1.80%
-- Flow 1:
  Average throughput: 47.02 Mbit/s
  95th percentile per-packet one-way delay: 119.074 ms
  Loss rate: 1.05%
-- Flow 2:
  Average throughput: 35.95 Mbit/s
  95th percentile per-packet one-way delay: 118.926 ms
  Loss rate: 2.24%
-- Flow 3:
  Average throughput: 27.23 Mbit/s
  95th percentile per-packet one-way delay: 120.264 ms
  Loss rate: 4.44%
Run 2: Report of TCP BBR — Data Link

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

Start at: 2018-06-06 03:31:49
End at: 2018-06-06 03:32:19
Local clock offset: -0.826 ms
Remote clock offset: 3.732 ms

# Below is generated by plot.py at 2018-06-06 06:12:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 78.77 Mbit/s
  95th percentile per-packet one-way delay: 119.433 ms
  Loss rate: 1.89%
-- Flow 1:
  Average throughput: 46.41 Mbit/s
  95th percentile per-packet one-way delay: 118.940 ms
  Loss rate: 1.15%
-- Flow 2:
  Average throughput: 34.88 Mbit/s
  95th percentile per-packet one-way delay: 119.678 ms
  Loss rate: 2.21%
-- Flow 3:
  Average throughput: 28.00 Mbit/s
  95th percentile per-packet one-way delay: 121.283 ms
  Loss rate: 4.73%
Run 3: Report of TCP BBR — Data Link

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

- **Flow 1**: Ingress (mean 46.69 Mbit/s), Egress (mean 46.41 Mbit/s)
- **Flow 2**: Ingress (mean 35.34 Mbit/s), Egress (mean 34.85 Mbit/s)
- **Flow 3**: Ingress (mean 26.85 Mbit/s), Egress (mean 28.00 Mbit/s)
Run 4: Statistics of TCP BBR

Start at: 2018-06-06 03:51:48
End at: 2018-06-06 03:52:18
Local clock offset: -2.544 ms
Remote clock offset: 8.263 ms

# Below is generated by plot.py at 2018-06-06 06:12:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 113.163 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 47.48 Mbit/s
95th percentile per-packet one-way delay: 113.289 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 113.146 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 27.71 Mbit/s
95th percentile per-packet one-way delay: 112.980 ms
Loss rate: 3.92%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2018-06-06 04:11:47
End at: 2018-06-06 04:12:17
Local clock offset: -1.748 ms
Remote clock offset: 9.894 ms

# Below is generated by plot.py at 2018-06-06 06:12:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.80 Mbit/s
95th percentile per-packet one-way delay: 118.555 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 46.75 Mbit/s
95th percentile per-packet one-way delay: 118.009 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 117.889 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 28.44 Mbit/s
95th percentile per-packet one-way delay: 119.118 ms
Loss rate: 4.11%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-06-06 04:31:46  
End at: 2018-06-06 04:32:16  
Local clock offset: -1.745 ms  
Remote clock offset: 13.45 ms

# Below is generated by plot.py at 2018-06-06 06:12:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.65 Mbit/s  
95th percentile per-packet one-way delay: 118.377 ms  
Loss rate: 1.80%  
-- Flow 1:  
Average throughput: 46.62 Mbit/s  
95th percentile per-packet one-way delay: 118.236 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 37.31 Mbit/s  
95th percentile per-packet one-way delay: 118.294 ms  
Loss rate: 2.28%  
-- Flow 3:  
Average throughput: 28.34 Mbit/s  
95th percentile per-packet one-way delay: 118.740 ms  
Loss rate: 4.72%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-06-06 04:51:45
End at: 2018-06-06 04:52:15
Local clock offset: -4.291 ms
Remote clock offset: 5.069 ms

# Below is generated by plot.py at 2018-06-06 06:12:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.77 Mbit/s
95th percentile per-packet one-way delay: 117.175 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 47.05 Mbit/s
95th percentile per-packet one-way delay: 117.171 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 116.321 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 117.831 ms
Loss rate: 3.48%
Run 7: Report of TCP BBR — Data Link

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

![Graph 2: Packet Delay vs Time](image2)
Run 8: Statistics of TCP BBR

Start at: 2018-06-06 05:12:00
End at: 2018-06-06 05:12:30
Local clock offset: -6.27 ms
Remote clock offset: 10.098 ms

# Below is generated by plot.py at 2018-06-06 06:13:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.70 Mbit/s
95th percentile per-packet one-way delay: 115.102 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 46.96 Mbit/s
95th percentile per-packet one-way delay: 114.853 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 114.955 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 115.760 ms
Loss rate: 4.00%
Run 8: Report of TCP BBR — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 47.40 Mbps)
  - Flow 1 egress (mean 46.96 Mbps)
  - Flow 2 ingress (mean 37.31 Mbps)
  - Flow 2 egress (mean 36.65 Mbps)
  - Flow 3 ingress (mean 29.32 Mbps)
  - Flow 3 egress (mean 28.62 Mbps)

- **Per-packet time/delay (ms):**
  - Flow 1 (95th percentile 114.85 ms)
  - Flow 2 (95th percentile 114.95 ms)
  - Flow 3 (95th percentile 115.76 ms)
Run 9: Statistics of TCP BBR

Start at: 2018-06-06 05:32:01
End at: 2018-06-06 05:32:31
Local clock offset: -7.87 ms
Remote clock offset: 9.43 ms

# Below is generated by plot.py at 2018-06-06 06:13:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.53 Mbit/s
95th percentile per-packet one-way delay: 120.178 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 119.856 ms
Loss rate: 1.28%
-- Flow 2:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 120.212 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 120.795 ms
Loss rate: 4.14%
Run 9: Report of TCP BBR — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 48.57 Mbit/s)
Flow 2 ingress (mean 35.42 Mbit/s)
Flow 3 ingress (mean 28.33 Mbit/s)
Flow 1 egress (mean 48.21 Mbit/s)
Flow 2 egress (mean 35.00 Mbit/s)
Flow 3 egress (mean 27.63 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 119.96 ms)
Flow 2 (95th percentile 120.21 ms)
Flow 3 (95th percentile 120.80 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-06-06 05:52:03
End at: 2018-06-06 05:52:33
Local clock offset: -2.053 ms
Remote clock offset: 8.585 ms

# Below is generated by plot.py at 2018-06-06 06:13:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.70 Mbit/s
95th percentile per-packet one-way delay: 116.402 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 116.034 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 116.355 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 26.91 Mbit/s
95th percentile per-packet one-way delay: 117.147 ms
Loss rate: 4.72%
Run 10: Report of TCP BBR — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 1: Statistics of Copa

Start at: 2018-06-06 03:04:24
End at: 2018-06-06 03:04:54
Local clock offset: -2.388 ms
Remote clock offset: 8.642 ms

# Below is generated by plot.py at 2018-06-06 06:14:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.85 Mbit/s
95th percentile per-packet one-way delay: 99.601 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 98.968 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 100.458 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 108.890 ms
Loss rate: 2.55%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-06-06 03:24:21
End at: 2018-06-06 03:24:51
Local clock offset: -1.701 ms
Remote clock offset: 3.178 ms

# Below is generated by plot.py at 2018-06-06 06:14:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.33 Mbit/s
95th percentile per-packet one-way delay: 107.127 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 51.88 Mbit/s
95th percentile per-packet one-way delay: 103.594 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 103.243 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 113.320 ms
Loss rate: 1.90%
Run 2: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 51.77 Mbit/s)
- Flow 1 egress (mean 51.88 Mbit/s)
- Flow 2 ingress (mean 39.38 Mbit/s)
- Flow 2 egress (mean 39.35 Mbit/s)
- Flow 3 ingress (mean 34.38 Mbit/s)
- Flow 3 egress (mean 34.30 Mbit/s)

1. Throughput: The line graph shows the throughput (in Mbit/s) over time for different flows. The throughput peaks and stabilizes at different rates for each flow.
2. Per-packet one-way delay: The bar graph displays the per-packet one-way delay (in ms) for each flow over time. The delay varies significantly between flows.
Run 3: Statistics of Copa

Start at: 2018-06-06 03:44:20
End at: 2018-06-06 03:44:50
Local clock offset: -1.722 ms
Remote clock offset: 7.524 ms

# Below is generated by plot.py at 2018-06-06 06:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 96.565 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 55.68 Mbit/s
95th percentile per-packet one-way delay: 92.246 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 97.331 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 33.57 Mbit/s
95th percentile per-packet one-way delay: 106.393 ms
Loss rate: 1.96%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-06 04:04:20
End at: 2018-06-06 04:04:50
Local clock offset: -1.615 ms
Remote clock offset: 10.994 ms

# Below is generated by plot.py at 2018-06-06 06:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 103.273 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 95.361 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 99.189 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 28.30 Mbit/s
95th percentile per-packet one-way delay: 109.982 ms
Loss rate: 1.46%
Run 4: Report of Copa — Data Link

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

Start at: 2018-06-06 04:24:18
End at: 2018-06-06 04:24:48
Local clock offset: -1.014 ms
Remote clock offset: 12.335 ms

# Below is generated by plot.py at 2018-06-06 06:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.07 Mbit/s
95th percentile per-packet one-way delay: 110.877 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 48.65 Mbit/s
95th percentile per-packet one-way delay: 95.364 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 36.08 Mbit/s
95th percentile per-packet one-way delay: 113.696 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 28.71 Mbit/s
95th percentile per-packet one-way delay: 114.647 ms
Loss rate: 1.52%
Run 5: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 48.53 Mbit/s)
- Flow 1 egress (mean 48.65 Mbit/s)
- Flow 2 ingress (mean 35.92 Mbit/s)
- Flow 2 egress (mean 36.08 Mbit/s)
- Flow 3 ingress (mean 28.87 Mbit/s)
- Flow 3 egress (mean 28.71 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 95.36 ms)
- Flow 2 (95th percentile 113.70 ms)
- Flow 3 (95th percentile 114.65 ms)
Run 6: Statistics of Copa

Start at: 2018-06-06 04:44:17
End at: 2018-06-06 04:44:47
Local clock offset: -2.328 ms
Remote clock offset: 6.714 ms

# Below is generated by plot.py at 2018-06-06 06:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.53 Mbit/s
95th percentile per-packet one-way delay: 104.248 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 50.31 Mbit/s
95th percentile per-packet one-way delay: 94.922 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 36.67 Mbit/s
95th percentile per-packet one-way delay: 103.866 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 113.440 ms
Loss rate: 2.22%
Run 6: Report of Copa — Data Link

Graph 1: Throughput (Mbps) vs Time (s)
- Flow 1 ingress (mean 50.22 Mbps)
- Flow 1 egress (mean 50.31 Mbps)
- Flow 2 ingress (mean 36.67 Mbps)
- Flow 2 egress (mean 36.67 Mbps)
- Flow 3 ingress (mean 30.11 Mbps)
- Flow 3 egress (mean 29.94 Mbps)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 94.92 ms)
- Flow 2 (95th percentile 103.87 ms)
- Flow 3 (95th percentile 113.44 ms)
Run 7: Statistics of Copa

Start at: 2018-06-06 05:04:16
End at: 2018-06-06 05:04:46
Local clock offset: -4.052 ms
Remote clock offset: 3.492 ms

# Below is generated by plot.py at 2018-06-06 06:15:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 86.57 Mbit/s
  95th percentile per-packet one-way delay: 105.836 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 50.26 Mbit/s
  95th percentile per-packet one-way delay: 103.634 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 39.50 Mbit/s
  95th percentile per-packet one-way delay: 112.675 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 30.62 Mbit/s
  95th percentile per-packet one-way delay: 107.992 ms
  Loss rate: 2.16%
Run 7: Report of Copa — Data Link
Run 8: Statistics of Copa

Start at: 2018-06-06 05:24:33
End at: 2018-06-06 05:25:03
Local clock offset: -8.821 ms
Remote clock offset: 12.015 ms

# Below is generated by plot.py at 2018-06-06 06:15:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.30 Mbit/s
95th percentile per-packet one-way delay: 101.234 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 44.60 Mbit/s
95th percentile per-packet one-way delay: 103.768 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 33.18 Mbit/s
95th percentile per-packet one-way delay: 98.578 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 26.34 Mbit/s
95th percentile per-packet one-way delay: 100.793 ms
Loss rate: 2.08%
Run 8: Report of Copa — Data Link

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

Flow 1 ingress (mean 44.58 Mbit/s)  Flow 1 egress (mean 44.60 Mbit/s)
Flow 2 ingress (mean 33.17 Mbit/s)  Flow 2 egress (mean 33.18 Mbit/s)
Flow 3 ingress (mean 26.45 Mbit/s)  Flow 3 egress (mean 26.34 Mbit/s)
Run 9: Statistics of Copa

Start at: 2018-06-06 05:44:36
End at: 2018-06-06 05:45:06
Local clock offset: -3.319 ms
Remote clock offset: 8.101 ms

# Below is generated by plot.py at 2018-06-06 06:16:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.41 Mbit/s
  95th percentile per-packet one-way delay: 114.345 ms
  Loss rate: 0.76%
-- Flow 1:
  Average throughput: 50.33 Mbit/s
  95th percentile per-packet one-way delay: 113.597 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 33.97 Mbit/s
  95th percentile per-packet one-way delay: 114.377 ms
  Loss rate: 0.94%
-- Flow 3:
  Average throughput: 28.95 Mbit/s
  95th percentile per-packet one-way delay: 114.671 ms
  Loss rate: 1.91%
Run 9: Report of Copa — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows with annotations for their mean values and 95th percentile delays.]
Run 10: Statistics of Copa

Start at: 2018-06-06 06:04:35
End at: 2018-06-06 06:05:05
Local clock offset: -1.067 ms
Remote clock offset: 2.915 ms

# Below is generated by plot.py at 2018-06-06 06:16:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.76 Mbit/s
  95th percentile per-packet one-way delay: 113.198 ms
  Loss rate: 0.81%
-- Flow 1:
  Average throughput: 46.51 Mbit/s
  95th percentile per-packet one-way delay: 104.933 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 36.77 Mbit/s
  95th percentile per-packet one-way delay: 114.803 ms
  Loss rate: 0.95%
-- Flow 3:
  Average throughput: 29.85 Mbit/s
  95th percentile per-packet one-way delay: 115.017 ms
  Loss rate: 2.27%
Run 10: Report of Copa — Data Link

![Graph of network performance over time showing throughput in Mb/s and per-packet one-way delay in ms.](image)

Flow 1 ingress (mean 46.45 Mbit/s)  
Flow 1 egress (mean 46.51 Mbit/s)  
Flow 2 ingress (mean 36.79 Mbit/s)  
Flow 2 egress (mean 36.77 Mbit/s)  
Flow 3 ingress (mean 30.03 Mbit/s)  
Flow 3 egress (mean 29.85 Mbit/s)
Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 02:50:37
End at: 2018-06-06 02:51:07
Local clock offset: -2.527 ms
Remote clock offset: 9.796 ms

# Below is generated by plot.py at 2018-06-06 06:16:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.15 Mbit/s
95th percentile per-packet one-way delay: 97.814 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 46.25 Mbit/s
95th percentile per-packet one-way delay: 97.729 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 34.70 Mbit/s
95th percentile per-packet one-way delay: 101.737 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 103.031 ms
Loss rate: 1.96%
Run 1: Report of TCP Cubic — Data Link

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

- **Flow 1 Ingress** (mean 46.14 Mbit/s)
- **Flow 1 Egress** (mean 46.25 Mbit/s)
- **Flow 2 Ingress** (mean 34.65 Mbit/s)
- **Flow 2 Egress** (mean 34.70 Mbit/s)
- **Flow 3 Ingress** (mean 20.94 Mbit/s)
- **Flow 3 Egress** (mean 20.88 Mbit/s)

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

- **Flow 1** (95th percentile 97.73 ms)
- **Flow 2** (95th percentile 101.74 ms)
- **Flow 3** (95th percentile 103.03 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 03:10:37
End at: 2018-06-06 03:11:07
Local clock offset: -1.777 ms
Remote clock offset: 8.142 ms

# Below is generated by plot.py at 2018-06-06 06:16:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 63.39 Mbit/s
  95th percentile per.packet one-way delay: 91.954 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 37.07 Mbit/s
  95th percentile per.packet one-way delay: 91.878 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 27.68 Mbit/s
  95th percentile per.packet one-way delay: 96.476 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 24.11 Mbit/s
  95th percentile per.packet one-way delay: 110.020 ms
  Loss rate: 1.91%
Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 03:30:34
End at: 2018-06-06 03:31:04
Local clock offset: -0.846 ms
Remote clock offset: 7.59 ms

# Below is generated by plot.py at 2018-06-06 06:16:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 92.790 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 92.731 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 96.473 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 108.926 ms
Loss rate: 1.91%
Run 3: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 48.07 Mbit/s)
- Flow 1 egress (mean 48.13 Mbit/s)
- Flow 2 ingress (mean 31.81 Mbit/s)
- Flow 2 egress (mean 31.86 Mbit/s)
- Flow 3 ingress (mean 23.44 Mbit/s)
- Flow 3 egress (mean 23.38 Mbit/s)

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

- Flow 1 (95th percentile 92.73 ms)
- Flow 2 (95th percentile 96.47 ms)
- Flow 3 (95th percentile 108.93 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 03:50:34  
End at: 2018-06-06 03:51:04  
Local clock offset: -1.711 ms  
Remote clock offset: 3.98 ms

# Below is generated by plot.py at 2018-06-06 06:16:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.88 Mbit/s  
95th percentile per-packet one-way delay: 96.908 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 38.20 Mbit/s  
95th percentile per-packet one-way delay: 96.831 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 32.97 Mbit/s  
95th percentile per-packet one-way delay: 103.259 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 23.72 Mbit/s  
95th percentile per-packet one-way delay: 113.483 ms  
Loss rate: 1.90%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 04:10:32
End at: 2018-06-06 04:11:02
Local clock offset: -1.732 ms
Remote clock offset: 13.812 ms

# Below is generated by plot.py at 2018-06-06 06:16:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 76.95 Mbit/s
  95th percentile per-packet one-way delay: 92.293 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 48.00 Mbit/s
  95th percentile per-packet one-way delay: 92.168 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 32.16 Mbit/s
  95th percentile per-packet one-way delay: 95.272 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 23.11 Mbit/s
  95th percentile per-packet one-way delay: 106.412 ms
  Loss rate: 1.98%
Run 5: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 47.94 Mbps)
- Flow 1 egress (mean 48.00 Mbps)
- Flow 2 ingress (mean 32.12 Mbps)
- Flow 2 egress (mean 32.16 Mbps)
- Flow 3 ingress (mean 23.18 Mbps)
- Flow 3 egress (mean 23.11 Mbps)

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

- Flow 1 (95th percentile 92.17 ms)
- Flow 2 (95th percentile 95.27 ms)
- Flow 3 (95th percentile 106.41 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 04:30:31
End at: 2018-06-06 04:31:01
Local clock offset: -0.982 ms
Remote clock offset: 17.704 ms

# Below is generated by plot.py at 2018-06-06 06:16:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.06 Mbit/s
95th percentile per-packet one-way delay: 93.014 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 92.223 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 32.05 Mbit/s
95th percentile per-packet one-way delay: 97.912 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 21.14 Mbit/s
95th percentile per-packet one-way delay: 100.695 ms
Loss rate: 1.96%
Run 6: Report of TCP Cubic — Data Link

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

- **Flow 1 Ingress**: Mean 48.78 Mbit/s
- **Flow 1 Egress**: Mean 48.84 Mbit/s
- **Flow 2 Ingress**: Mean 32.01 Mbit/s
- **Flow 2 Egress**: Mean 32.05 Mbit/s
- **Flow 3 Ingress**: Mean 21.20 Mbit/s
- **Flow 3 Egress**: Mean 21.14 Mbit/s

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

- **Flow 1 (95th percentile)**: 92.22 ms
- **Flow 2 (95th percentile)**: 97.91 ms
- **Flow 3 (95th percentile)**: 100.69 ms
Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 04:50:30
End at: 2018-06-06 04:51:00
Local clock offset: -4.276 ms
Remote clock offset: 4.919 ms

# Below is generated by plot.py at 2018-06-06 06:16:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 74.71 Mbit/s
  95th percentile per-packet one-way delay: 94.871 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 45.75 Mbit/s
  95th percentile per-packet one-way delay: 94.840 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 32.11 Mbit/s
  95th percentile per-packet one-way delay: 96.557 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 23.24 Mbit/s
  95th percentile per-packet one-way delay: 110.074 ms
  Loss rate: 1.87%
Run 7: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 45.63 Mbit/s)
- Flow 1 egress (mean 45.75 Mbit/s)
- Flow 2 ingress (mean 32.06 Mbit/s)
- Flow 2 egress (mean 32.11 Mbit/s)
- Flow 3 ingress (mean 23.29 Mbit/s)
- Flow 3 egress (mean 23.24 Mbit/s)

[Graph showing packet delay over time for different flows]

Legend:
- Flow 1 (95th percentile 94.84 ms)
- Flow 2 (95th percentile 96.56 ms)
- Flow 3 (95th percentile 110.07 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 05:10:45
End at: 2018-06-06 05:11:15
Local clock offset: -5.261 ms
Remote clock offset: 5.824 ms

# Below is generated by plot.py at 2018-06-06 06:16:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 95.539 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 51.73 Mbit/s
95th percentile per-packet one-way delay: 95.462 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 32.03 Mbit/s
95th percentile per-packet one-way delay: 97.375 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 32.74 Mbit/s
95th percentile per-packet one-way delay: 91.470 ms
Loss rate: 2.02%
Run 8: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 51.62 Mbit/s)
- Flow 1 egress (mean 51.73 Mbit/s)
- Flow 2 ingress (mean 31.99 Mbit/s)
- Flow 2 egress (mean 32.03 Mbit/s)
- Flow 3 ingress (mean 32.86 Mbit/s)
- Flow 3 egress (mean 32.74 Mbit/s)
Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 05:30:46
End at: 2018-06-06 05:31:16
Local clock offset: -8.549 ms
Remote clock offset: 9.285 ms

# Below is generated by plot.py at 2018-06-06 06:16:45
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 77.31 Mbit/s
  95th percentile per-packet one-way delay: 97.540 ms
  Loss rate: 0.66%
 -- Flow 1:
  Average throughput: 48.53 Mbit/s
  95th percentile per-packet one-way delay: 97.464 ms
  Loss rate: 0.43%
 -- Flow 2:
  Average throughput: 31.80 Mbit/s
  95th percentile per-packet one-way delay: 100.623 ms
  Loss rate: 0.72%
 -- Flow 3:
  Average throughput: 23.32 Mbit/s
  95th percentile per-packet one-way delay: 111.306 ms
  Loss rate: 1.90%
Run 9: Report of TCP Cubic — Data Link

![Graph of TCP Cubic data link performance](image1)

![Graph of per-packet round-trip delay](image2)
Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 05:50:49
End at: 2018-06-06 05:51:19
Local clock offset: -2.292 ms
Remote clock offset: 5.378 ms

# Below is generated by plot.py at 2018-06-06 06:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.68 Mbit/s
95th percentile per-packet one-way delay: 97.927 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 43.14 Mbit/s
95th percentile per-packet one-way delay: 97.934 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 98.367 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 36.16 Mbit/s
95th percentile per-packet one-way delay: 87.971 ms
Loss rate: 2.00%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2018-06-06 02:59:17
End at: 2018-06-06 02:59:47
Local clock offset: -2.582 ms
Remote clock offset: 0.703 ms

# Below is generated by plot.py at 2018-06-06 06:17:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.09 Mbit/s
  95th percentile per-packet one-way delay: 117.128 ms
  Loss rate: 2.25%
  -- Flow 1:
  Average throughput: 57.76 Mbit/s
  95th percentile per-packet one-way delay: 116.064 ms
  Loss rate: 1.45%
  -- Flow 2:
  Average throughput: 38.70 Mbit/s
  95th percentile per-packet one-way delay: 117.176 ms
  Loss rate: 2.91%
  -- Flow 3:
  Average throughput: 29.46 Mbit/s
  95th percentile per-packet one-way delay: 118.541 ms
  Loss rate: 5.09%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2018-06-06 03:19:16
End at: 2018-06-06 03:19:46
Local clock offset: -0.966 ms
Remote clock offset: 3.455 ms

# Below is generated by plot.py at 2018-06-06 06:17:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.20 Mbit/s
95th percentile per-packet one-way delay: 113.408 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 57.69 Mbit/s
95th percentile per-packet one-way delay: 112.024 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 113.557 ms
Loss rate: 3.94%
-- Flow 3:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 114.942 ms
Loss rate: 4.70%
Run 2: Report of FillP — Data Link

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

- Flow 1 ingress (mean 58.28 Mbps)
- Flow 1 egress (mean 57.69 Mbps)
- Flow 2 ingress (mean 40.28 Mbps)
- Flow 2 egress (mean 39.04 Mbps)
- Flow 3 ingress (mean 30.19 Mbps)
- Flow 3 egress (mean 29.29 Mbps)

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

- Flow 1 (95th percentile 112.02 ms)
- Flow 2 (95th percentile 113.56 ms)
- Flow 3 (95th percentile 114.94 ms)
Run 3: Statistics of FillP

Start at: 2018-06-06 03:39:14
End at: 2018-06-06 03:39:44
Local clock offset: -2.51 ms
Remote clock offset: 4.399 ms

# Below is generated by plot.py at 2018-06-06 06:17:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 111.253 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 58.12 Mbit/s
95th percentile per-packet one-way delay: 110.196 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 39.18 Mbit/s
95th percentile per-packet one-way delay: 111.482 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 29.70 Mbit/s
95th percentile per-packet one-way delay: 112.357 ms
Loss rate: 4.57%
Run 3: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 58.58 Mbps)
  - Flow 1 egress (mean 58.12 Mbps)
  - Flow 2 ingress (mean 39.90 Mbps)
  - Flow 2 egress (mean 39.18 Mbps)
  - Flow 3 ingress (mean 30.57 Mbps)
  - Flow 3 egress (mean 29.70 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 110.20 ms)
  - Flow 2 (95th percentile 111.48 ms)
  - Flow 3 (95th percentile 112.36 ms)
Run 4: Statistics of FillP

Start at: 2018-06-06 03:59:14
End at: 2018-06-06 03:59:44
Local clock offset: -2.439 ms
Remote clock offset: 7.697 ms

# Below is generated by plot.py at 2018-06-06 06:17:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.79 Mbit/s
95th percentile per-packet one-way delay: 108.699 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 106.652 ms
Loss rate: 1.50%
-- Flow 2:
Average throughput: 39.20 Mbit/s
95th percentile per-packet one-way delay: 109.397 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 109.772 ms
Loss rate: 6.04%
Run 4: Report of FillP — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows with mean values indicated.]
Run 5: Statistics of FillP

Start at: 2018-06-06 04:19:12  
End at: 2018-06-06 04:19:42  
Local clock offset: -1.014 ms  
Remote clock offset: 11.605 ms

# Below is generated by plot.py at 2018-06-06 06:17:56  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.79 Mbit/s  
95th percentile per-packet one-way delay: 113.140 ms  
Loss rate: 2.53%
-- Flow 1:
Average throughput: 58.26 Mbit/s  
95th percentile per-packet one-way delay: 111.959 ms  
Loss rate: 1.45%
-- Flow 2:
Average throughput: 38.81 Mbit/s  
95th percentile per-packet one-way delay: 113.670 ms  
Loss rate: 4.14%
-- Flow 3:
Average throughput: 29.81 Mbit/s  
95th percentile per-packet one-way delay: 114.122 ms  
Loss rate: 4.59%
Run 5: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 58.77 Mbps)
  - Flow 1 egress (mean 58.26 Mbps)
  - Flow 2 ingress (mean 40.12 Mbps)
  - Flow 2 egress (mean 38.81 Mbps)
  - Flow 3 ingress (mean 30.68 Mbps)
  - Flow 3 egress (mean 29.81 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 111.96 ms)
  - Flow 2 (95th percentile 113.67 ms)
  - Flow 3 (95th percentile 114.12 ms)
Run 6: Statistics of FillP

Start at: 2018-06-06 04:39:11
End at: 2018-06-06 04:39:41
Local clock offset: -2.571 ms
Remote clock offset: 9.13 ms

# Below is generated by plot.py at 2018-06-06 06:18:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 111.946 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 57.41 Mbit/s
95th percentile per-packet one-way delay: 111.144 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 111.749 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 30.19 Mbit/s
95th percentile per-packet one-way delay: 112.987 ms
Loss rate: 4.18%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Start at: 2018-06-06 04:59:10
End at: 2018-06-06 04:59:40
Local clock offset: -3.775 ms
Remote clock offset: 8.048 ms

# Below is generated by plot.py at 2018-06-06 06:18:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.43 Mbit/s
  95th percentile per-packet one-way delay: 107.938 ms
  Loss rate: 2.50%
  -- Flow 1:
    Average throughput: 57.77 Mbit/s
    95th percentile per-packet one-way delay: 107.179 ms
    Loss rate: 1.53%
  -- Flow 2:
    Average throughput: 39.03 Mbit/s
    95th percentile per-packet one-way delay: 107.676 ms
    Loss rate: 3.62%
  -- Flow 3:
    Average throughput: 29.75 Mbit/s
    95th percentile per-packet one-way delay: 109.212 ms
    Loss rate: 5.11%
Run 7: Report of FillP — Data Link

![Graph 1](Image 1)

![Graph 2](Image 2)
Run 8: Statistics of FillP

Start at: 2018-06-06 05:19:27
End at: 2018-06-06 05:19:57
Local clock offset: -7.448 ms
Remote clock offset: 12.173 ms

# Below is generated by plot.py at 2018-06-06 06:18:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.90 Mbit/s
  95th percentile per-packet one-way delay: 109.191 ms
  Loss rate: 2.39%
-- Flow 1:
  Average throughput: 58.17 Mbit/s
  95th percentile per-packet one-way delay: 108.603 ms
  Loss rate: 1.54%
-- Flow 2:
  Average throughput: 39.09 Mbit/s
  95th percentile per-packet one-way delay: 109.001 ms
  Loss rate: 3.31%
-- Flow 3:
  Average throughput: 29.92 Mbit/s
  95th percentile per-packet one-way delay: 110.356 ms
  Loss rate: 4.85%
Run 8: Report of FillP — Data Link

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

- **Flow 1 ingress** (mean 58.73 Mbps)
- **Flow 1 egress** (mean 58.17 Mbps)
- **Flow 2 ingress** (mean 40.68 Mbps)
- **Flow 2 egress** (mean 39.09 Mbps)
- **Flow 3 ingress** (mean 30.91 Mbps)
- **Flow 3 egress** (mean 29.92 Mbps)

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

- Flow 1 (95th percentile 108.60 ms)
- Flow 2 (95th percentile 109.00 ms)
- Flow 3 (95th percentile 110.36 ms)
Run 9: Statistics of FillP

Start at: 2018-06-06 05:39:29
End at: 2018-06-06 05:39:59
Local clock offset: -5.728 ms
Remote clock offset: 13.61 ms

# Below is generated by plot.py at 2018-06-06 06:19:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.34 Mbit/s
  95th percentile per-packet one-way delay: 109.725 ms
  Loss rate: 2.88%
-- Flow 1:
  Average throughput: 57.77 Mbit/s
  95th percentile per-packet one-way delay: 108.691 ms
  Loss rate: 2.15%
-- Flow 2:
  Average throughput: 38.87 Mbit/s
  95th percentile per-packet one-way delay: 110.138 ms
  Loss rate: 3.54%
-- Flow 3:
  Average throughput: 29.90 Mbit/s
  95th percentile per-packet one-way delay: 110.704 ms
  Loss rate: 5.33%
Run 9: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 58.71 Mbit/s)  Flow 1 egress (mean 57.77 Mbit/s)
Flow 2 ingress (mean 39.94 Mbit/s)  Flow 2 egress (mean 38.87 Mbit/s)
Flow 3 ingress (mean 31.04 Mbit/s)  Flow 3 egress (mean 29.90 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 108.69 ms)  Flow 2 (95th percentile 110.14 ms)  Flow 3 (95th percentile 110.70 ms)
Run 10: Statistics of FillP

Start at: 2018-06-06 05:59:29
End at: 2018-06-06 05:59:59
Local clock offset: -1.395 ms
Remote clock offset: 3.629 ms

# Below is generated by plot.py at 2018-06-06 06:19:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.41 Mbit/s
  95th percentile per-packet one-way delay: 114.386 ms
  Loss rate: 2.30%
-- Flow 1:
  Average throughput: 57.79 Mbit/s
  95th percentile per-packet one-way delay: 113.341 ms
  Loss rate: 1.30%
-- Flow 2:
  Average throughput: 39.00 Mbit/s
  95th percentile per-packet one-way delay: 114.290 ms
  Loss rate: 3.49%
-- Flow 3:
  Average throughput: 29.78 Mbit/s
  95th percentile per-packet one-way delay: 115.698 ms
  Loss rate: 4.88%
Run 10: Report of FillP — Data Link
Run 1: Statistics of Indigo

Start at: 2018-06-06 03:00:32
End at: 2018-06-06 03:01:02
Local clock offset: -1.688 ms
Remote clock offset: 6.08 ms

# Below is generated by plot.py at 2018-06-06 06:19:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.01 Mbit/s
  95th percentile per-packet one-way delay: 117.221 ms
  Loss rate: 1.60%
-- Flow 1:
  Average throughput: 56.12 Mbit/s
  95th percentile per-packet one-way delay: 117.063 ms
  Loss rate: 1.74%
-- Flow 2:
  Average throughput: 38.29 Mbit/s
  95th percentile per-packet one-way delay: 118.629 ms
  Loss rate: 1.12%
-- Flow 3:
  Average throughput: 29.23 Mbit/s
  95th percentile per-packet one-way delay: 109.562 ms
  Loss rate: 2.09%
Run 1: Report of Indigo — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 56.77 Mbps)
  - Flow 1 egress (mean 56.12 Mbps)
  - Flow 2 ingress (mean 38.40 Mbps)
  - Flow 2 egress (mean 38.29 Mbps)
  - Flow 3 ingress (mean 29.35 Mbps)
  - Flow 3 egress (mean 29.23 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 117.06 ms)
  - Flow 2 (95th percentile 118.63 ms)
  - Flow 3 (95th percentile 109.56 ms)
Run 2: Statistics of Indigo

Start at: 2018-06-06 03:20:31
End at: 2018-06-06 03:21:01
Local clock offset: -0.961 ms
Remote clock offset: 7.726 ms

# Below is generated by plot.py at 2018-06-06 06:19:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.66 Mbit/s
95th percentile per-packet one-way delay: 114.320 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 113.814 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 114.989 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 29.27 Mbit/s
95th percentile per-packet one-way delay: 104.297 ms
Loss rate: 1.94%
Run 2: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 58.01 Mbit/s)
- Flow 1 egress (mean 57.40 Mbit/s)
- Flow 2 ingress (mean 38.89 Mbit/s)
- Flow 2 egress (mean 38.79 Mbit/s)
- Flow 3 ingress (mean 29.35 Mbit/s)
- Flow 3 egress (mean 29.27 Mbit/s)
Run 3: Statistics of Indigo

Start at: 2018-06-06 03:40:29
End at: 2018-06-06 03:40:59
Local clock offset: -0.917 ms
Remote clock offset: 7.535 ms

# Below is generated by plot.py at 2018-06-06 06:19:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 112.791 ms
Loss rate: 6.87%
-- Flow 1:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 109.794 ms
Loss rate: 9.79%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 116.298 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 29.55 Mbit/s
95th percentile per-packet one-way delay: 99.520 ms
Loss rate: 2.09%
Run 3: Report of Indigo — Data Link

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

Key:
- Flow 1 ingress (mean 64.40 Mbit/s)
- Flow 1 egress (mean 58.44 Mbit/s)
- Flow 2 ingress (mean 39.35 Mbit/s)
- Flow 2 egress (mean 39.13 Mbit/s)
- Flow 3 ingress (mean 29.88 Mbit/s)
- Flow 3 egress (mean 29.55 Mbit/s)
Run 4: Statistics of Indigo

Start at: 2018-06-06 04:00:29
End at: 2018-06-06 04:00:59
Local clock offset: -1.641 ms
Remote clock offset: 8.647 ms

# Below is generated by plot.py at 2018-06-06 06:19:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.04 Mbit/s
  95th percentile per-packet one-way delay: 114.253 ms
  Loss rate: 1.80%
-- Flow 1:
  Average throughput: 58.49 Mbit/s
  95th percentile per-packet one-way delay: 114.212 ms
  Loss rate: 2.05%
-- Flow 2:
  Average throughput: 39.02 Mbit/s
  95th percentile per-packet one-way delay: 114.732 ms
  Loss rate: 0.99%
-- Flow 3:
  Average throughput: 29.80 Mbit/s
  95th percentile per-packet one-way delay: 115.751 ms
  Loss rate: 2.40%
Run 4: Report of Indigo — Data Link

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

- **Throughput** (Mbps):
  - Flow 1 ingress: mean 59.39 Mbps
  - Flow 1 egress: mean 58.49 Mbps
  - Flow 2 ingress: mean 39.68 Mbps
  - Flow 2 egress: mean 39.02 Mbps
  - Flow 3 ingress: mean 30.02 Mbps
  - Flow 3 egress: mean 29.80 Mbps

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile: 114.21 ms)
  - Flow 2 (95th percentile: 114.73 ms)
  - Flow 3 (95th percentile: 115.75 ms)
Run 5: Statistics of Indigo

Start at: 2018-06-06 04:20:28
End at: 2018-06-06 04:20:58
Local clock offset: -2.626 ms
Remote clock offset: 11.753 ms

# Below is generated by plot.py at 2018-06-06 06:19:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.00 Mbit/s
  95th percentile per-packet one-way delay: 116.694 ms
  Loss rate: 1.57%
-- Flow 1:
  Average throughput: 58.38 Mbit/s
  95th percentile per-packet one-way delay: 116.811 ms
  Loss rate: 1.71%
-- Flow 2:
  Average throughput: 39.22 Mbit/s
  95th percentile per-packet one-way delay: 114.420 ms
  Loss rate: 1.07%
-- Flow 3:
  Average throughput: 29.57 Mbit/s
  95th percentile per-packet one-way delay: 99.713 ms
  Loss rate: 2.02%
Run 5: Report of Indigo — Data Link

![Data Link Throughput Graph]

- **Flow 1 ingress** (mean 59.07 Mbit/s)
- **Flow 1 egress** (mean 58.38 Mbit/s)
- **Flow 2 ingress** (mean 39.32 Mbit/s)
- **Flow 2 egress** (mean 39.22 Mbit/s)
- **Flow 3 ingress** (mean 29.68 Mbit/s)
- **Flow 3 egress** (mean 29.57 Mbit/s)

![Data Link Delay Graph]

- **Flow 1** (95th percentile 116.81 ms)
- **Flow 2** (95th percentile 114.42 ms)
- **Flow 3** (95th percentile 99.71 ms)
Run 6: Statistics of Indigo

Start at: 2018-06-06 04:40:26
End at: 2018-06-06 04:40:56
Local clock offset: -2.746 ms
Remote clock offset: 12.002 ms

# Below is generated by plot.py at 2018-06-06 06:19:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.06 Mbit/s
  95th percentile per-packet one-way delay: 113.978 ms
  Loss rate: 2.30%
-- Flow 1:
  Average throughput: 58.56 Mbit/s
  95th percentile per-packet one-way delay: 113.494 ms
  Loss rate: 2.84%
-- Flow 2:
  Average throughput: 39.01 Mbit/s
  95th percentile per-packet one-way delay: 114.252 ms
  Loss rate: 1.20%
-- Flow 3:
  Average throughput: 29.58 Mbit/s
  95th percentile per-packet one-way delay: 96.084 ms
  Loss rate: 1.93%
Run 7: Statistics of Indigo

Start at: 2018-06-06 05:00:25
End at: 2018-06-06 05:00:55
Local clock offset: -3.802 ms
Remote clock offset: 3.741 ms

# Below is generated by plot.py at 2018-06-06 06:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 116.844 ms
Loss rate: 8.47%
-- Flow 1:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 110.147 ms
Loss rate: 12.20%
-- Flow 2:
Average throughput: 38.97 Mbit/s
95th percentile per-packet one-way delay: 119.525 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 103.550 ms
Loss rate: 2.06%
Run 7: Report of Indigo — Data Link
Run 8: Statistics of Indigo

Start at: 2018-06-06 05:20:42
End at: 2018-06-06 05:21:12
Local clock offset: -6.826 ms
Remote clock offset: 8.898 ms

# Below is generated by plot.py at 2018-06-06 06:20:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.98 Mbit/s
95th percentile per-packet one-way delay: 118.722 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 59.24 Mbit/s
95th percentile per-packet one-way delay: 117.997 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 119.886 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 106.857 ms
Loss rate: 0.20%
Run 8: Report of Indigo — Data Link

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

- **Flow 1 ingress** (mean 60.88 Mbit/s)
- **Flow 1 egress** (mean 59.24 Mbit/s)
- **Flow 2 ingress** (mean 37.60 Mbit/s)
- **Flow 2 egress** (mean 38.40 Mbit/s)
- **Flow 3 ingress** (mean 27.20 Mbit/s)
- **Flow 3 egress** (mean 29.48 Mbit/s)
Run 9: Statistics of Indigo

Start at: 2018-06-06 05:40:45
End at: 2018-06-06 05:41:15
Local clock offset: -5.292 ms
Remote clock offset: 10.136 ms

# Below is generated by plot.py at 2018-06-06 06:20:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.12 Mbit/s
95th percentile per-packet one-way delay: 118.707 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 118.563 ms
Loss rate: 3.02%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 115.224 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 119.698 ms
Loss rate: 2.81%
Run 9: Report of Indigo — Data Link

![Graph showing throughput (Mbps) over time for different flows. The graph is divided into two sections: throughput and per-packet delay. For throughput, the mean values are noted as 59.97 Mbps, 37.77 Mbps, and 29.88 Mbps for flows 1, 2, and 3, respectively. For delay, the 95th percentile values are given as 118.56 ms, 115.22 ms, and 119.70 ms for flows 1, 2, and 3, respectively.]

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Run 10: Statistics of Indigo

Start at: 2018-06-06 06:00:44
End at: 2018-06-06 06:01:14
Local clock offset: -2.097 ms
Remote clock offset: 6.904 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.19 Mbit/s
  95th percentile per-packet one-way delay: 113.461 ms
  Loss rate: 4.20%
-- Flow 1:
  Average throughput: 58.85 Mbit/s
  95th percentile per-packet one-way delay: 109.869 ms
  Loss rate: 5.80%
-- Flow 2:
  Average throughput: 38.86 Mbit/s
  95th percentile per-packet one-way delay: 116.026 ms
  Loss rate: 1.14%
-- Flow 3:
  Average throughput: 29.43 Mbit/s
  95th percentile per-packet one-way delay: 105.965 ms
  Loss rate: 2.16%
Run 10: Report of Indigo — Data Link
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 02:53:08
End at: 2018-06-06 02:53:38
Local clock offset: -3.001 ms
Remote clock offset: 7.855 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 86.188 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 85.558 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 87.270 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 3.45%
Run 1: Report of LEDBAT — Data Link

![Graph showing throughput over time and packet loss per flow with specific data points and flow descriptions.]

- **Throughput (Mbps)**: The graph shows the throughput over time for three flows, with the maximum throughput for Flow 1 (mean 12.23 Mbps) and Flow 2 (mean 8.33 Mbps) at around 20 Mbps.
- **Packet Loss**: The second graph indicates the packet loss per flow over time, with Flow 3 having the highest packet loss at around 95th percentile of 86.82 ms.

---

**Flow Details**:
- **Flow 1**: Ingress (mean 12.31 Mbps), Egress (12.23 Mbps)
- **Flow 2**: Ingress (8.40 Mbps), Egress (8.33 Mbps)
- **Flow 3**: Ingress (3.89 Mbps), Egress (3.82 Mbps)
Run 2: Statistics of LEDBAT

Start at: 2018-06-06 03:13:07
End at: 2018-06-06 03:13:37
Local clock offset: -1.745 ms
Remote clock offset: 8.253 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.59 Mbit/s
95th percentile per-packet one-way delay: 81.344 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 80.488 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 81.901 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 81.864 ms
Loss rate: 3.41%
Run 3: Statistics of LEDBAT

Start at: 2018-06-06 03:33:05
End at: 2018-06-06 03:33:35
Local clock offset: -1.631 ms
Remote clock offset: 7.708 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 83.367 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 83.366 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 83.735 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 81.679 ms
Loss rate: 3.50%
Run 3: Report of LEDBAT — Data Link

---

The graphs above illustrate the throughput and per-packet one-way delay for different flows over time. The throughput is measured in Mbps.

### Throughput Graph
- **Flow 1 Ingress** (mean 12.78 Mbps)
- **Flow 1 Egress** (mean 12.70 Mbps)
- **Flow 2 Ingress** (mean 8.46 Mbps)
- **Flow 2 Egress** (mean 8.38 Mbps)
- **Flow 3 Ingress** (mean 3.94 Mbps)
- **Flow 3 Egress** (mean 3.87 Mbps)

### Per-Packet One-Way Delay Graph
- **Flow 1 (95th percentile 83.37 ms)**
- **Flow 2 (95th percentile 83.73 ms)**
- **Flow 3 (95th percentile 81.68 ms)**

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Run 4: Statistics of LEDBAT

Start at: 2018-06-06 03:53:04
End at: 2018-06-06 03:53:34
Local clock offset: -0.937 ms
Remote clock offset: 7.959 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 82.143 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 82.150 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 82.132 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 82.083 ms
Loss rate: 3.43%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-06-06 04:13:03
End at: 2018-06-06 04:13:33
Local clock offset: -1.755 ms
Remote clock offset: 14.287 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 81.255 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 80.922 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 81.350 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 81.177 ms
Loss rate: 3.41%
Run 6: Statistics of LEDBAT

Start at: 2018-06-06 04:33:02
End at: 2018-06-06 04:33:32
Local clock offset: -2.519 ms
Remote clock offset: 14.149 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 20.19 Mbit/s
  95th percentile per-packet one-way delay: 83.402 ms
  Loss rate: 1.42%
-- Flow 1:
  Average throughput: 13.12 Mbit/s
  95th percentile per-packet one-way delay: 83.365 ms
  Loss rate: 1.10%
-- Flow 2:
  Average throughput: 8.60 Mbit/s
  95th percentile per-packet one-way delay: 83.248 ms
  Loss rate: 1.66%
-- Flow 3:
  Average throughput: 4.20 Mbit/s
  95th percentile per-packet one-way delay: 83.538 ms
  Loss rate: 3.37%
Run 6: Report of LEDBAT — Data Link

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

- **Flow 1 Ingress (mean 13.20 Mbit/s)**
- **Flow 1 Egress (mean 13.12 Mbit/s)**
- **Flow 2 Ingress (mean 8.68 Mbit/s)**
- **Flow 2 Egress (mean 8.60 Mbit/s)**
- **Flow 3 Ingress (mean 4.27 Mbit/s)**
- **Flow 3 Egress (mean 4.20 Mbit/s)**

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

- **Flow 1 (95th percentile 83.36 ms)**
- **Flow 2 (95th percentile 83.25 ms)**
- **Flow 3 (95th percentile 83.54 ms)**

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Run 7: Statistics of LEDBAT

Start at: 2018-06-06 04:53:01
End at: 2018-06-06 04:53:31
Local clock offset: -3.569 ms
Remote clock offset: 8.472 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 82.015 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 82.401 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 81.939 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 80.889 ms
Loss rate: 3.28%
Run 7: Report of LEDBAT — Data Link

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

Throughput (Mbps):
- Flow 1 ingress (mean 13.05 Mbps)
- Flow 1 egress (mean 12.97 Mbps)
- Flow 2 ingress (mean 8.11 Mbps)
- Flow 2 egress (mean 8.04 Mbps)
- Flow 3 ingress (mean 3.84 Mbps)
- Flow 3 egress (mean 3.76 Mbps)

Packet loss (ms):
- Flow 1 (95th percentile 82.40 ms)
- Flow 2 (95th percentile 81.94 ms)
- Flow 3 (95th percentile 81.89 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-06-06 05:13:17
End at: 2018-06-06 05:13:47
Local clock offset: -6.546 ms
Remote clock offset: 6.911 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 85.655 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 85.538 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 85.798 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 85.482 ms
Loss rate: 3.47%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-06-06 05:33:18  
End at: 2018-06-06 05:33:48  
Local clock offset: -7.957 ms  
Remote clock offset: 13.088 ms

# Below is generated by plot.py at 2018-06-06 06:20:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.88 Mbit/s  
95th percentile per-packet one-way delay: 83.140 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 12.85 Mbit/s  
95th percentile per-packet one-way delay: 82.972 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 8.58 Mbit/s  
95th percentile per-packet one-way delay: 83.363 ms  
Loss rate: 1.67%  
-- Flow 3:  
Average throughput: 4.18 Mbit/s  
95th percentile per-packet one-way delay: 83.718 ms  
Loss rate: 3.35%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-06-06 05:53:19
End at: 2018-06-06 05:53:49
Local clock offset: -3.448 ms
Remote clock offset: 4.668 ms

# Below is generated by plot.py at 2018-06-06 06:20:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 19.10 Mbit/s
  95th percentile per-packet one-way delay: 86.086 ms
  Loss rate: 1.45%
-- Flow 1:
  Average throughput: 12.04 Mbit/s
  95th percentile per-packet one-way delay: 85.629 ms
  Loss rate: 1.12%
-- Flow 2:
  Average throughput: 8.60 Mbit/s
  95th percentile per-packet one-way delay: 86.406 ms
  Loss rate: 1.67%
-- Flow 3:
  Average throughput: 4.19 Mbit/s
  95th percentile per-packet one-way delay: 85.977 ms
  Loss rate: 3.37%
Run 10: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 12.11 Mbit/s)
- **Flow 1 egress** (mean 12.04 Mbit/s)
- **Flow 2 ingress** (mean 8.67 Mbit/s)
- **Flow 2 egress** (mean 8.60 Mbit/s)
- **Flow 3 ingress** (mean 4.27 Mbit/s)
- **Flow 3 egress** (mean 4.19 Mbit/s)

![Graph showing per-packet end-to-end delay for different flows.]

- **Flow 1** (95th percentile 85.63 ms)
- **Flow 2** (95th percentile 86.41 ms)
- **Flow 3** (95th percentile 85.98 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 03:01:50  
End at: 2018-06-06 03:02:20  
Local clock offset: -1.63 ms  
Remote clock offset: 4.024 ms  

# Below is generated by plot.py at 2018-06-06 06:20:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.98 Mbit/s  
95th percentile per-packet one-way delay: 110.983 ms  
Loss rate: 2.27%  
-- Flow 1:  
Average throughput: 65.55 Mbit/s  
95th percentile per-packet one-way delay: 110.825 ms  
Loss rate: 2.29%  
-- Flow 2:  
Average throughput: 13.94 Mbit/s  
95th percentile per-packet one-way delay: 89.479 ms  
Loss rate: 2.02%  
-- Flow 3:  
Average throughput: 31.24 Mbit/s  
95th percentile per-packet one-way delay: 113.075 ms  
Loss rate: 2.38%
Run 1: Report of PCC-Allegro — Data Link

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

- **Throughput (Mbit/s):**
  - Flow 1 ingress (mean 66.69 Mbit/s)
  - Flow 1 egress (mean 65.55 Mbit/s)
  - Flow 2 ingress (mean 14.11 Mbit/s)
  - Flow 2 egress (mean 13.94 Mbit/s)
  - Flow 3 ingress (mean 31.42 Mbit/s)
  - Flow 3 egress (mean 31.24 Mbit/s)

- **Packet one-way delay (ms):**
  - Flow 1 (95th percentile 110.83 ms)
  - Flow 2 (95th percentile 89.48 ms)
  - Flow 3 (95th percentile 113.08 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 03:21:48
End at: 2018-06-06 03:22:18
Local clock offset: -0.956 ms
Remote clock offset: 3.679 ms

# Below is generated by plot.py at 2018-06-06 06:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.02 Mbit/s
95th percentile per-packet one-way delay: 115.803 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 54.25 Mbit/s
95th percentile per-packet one-way delay: 112.246 ms
Loss rate: 6.67%
-- Flow 2:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 116.526 ms
Loss rate: 4.36%
-- Flow 3:
Average throughput: 29.25 Mbit/s
95th percentile per-packet one-way delay: 118.082 ms
Loss rate: 4.73%
Run 2: Report of PCC-Allegro — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 03:41:47
End at: 2018-06-06 03:42:17
Local clock offset: -1.703 ms
Remote clock offset: 7.44 ms

# Below is generated by plot.py at 2018-06-06 06:21:11
# Datalink statistics

-- Total of 3 flows:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 112.465 ms
Loss rate: 5.79%

-- Flow 1:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 108.689 ms
Loss rate: 6.60%

-- Flow 2:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 113.344 ms
Loss rate: 4.44%

-- Flow 3:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 114.405 ms
Loss rate: 4.28%
Run 3: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress** (mean 58.82 Mbit/s)
- **Flow 1 egress** (mean 55.26 Mbit/s)
- **Flow 2 ingress** (mean 36.46 Mbit/s)
- **Flow 2 egress** (mean 35.15 Mbit/s)
- **Flow 3 ingress** (mean 30.28 Mbit/s)
- **Flow 3 egress** (mean 29.50 Mbit/s)

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

- **Flow 1 (95th percentile 108.69 ms)**
- **Flow 2 (95th percentile 113.34 ms)**
- **Flow 3 (95th percentile 114.41 ms)**
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 04:01:47
End at: 2018-06-06 04:02:17
Local clock offset: -0.861 ms
Remote clock offset: 9.186 ms

# Below is generated by plot.py at 2018-06-06 06:21:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.01 Mbit/s
  95th percentile per-packet one-way delay: 113.158 ms
  Loss rate: 6.14%
-- Flow 1:
  Average throughput: 54.12 Mbit/s
  95th percentile per-packet one-way delay: 109.082 ms
  Loss rate: 7.18%
-- Flow 2:
  Average throughput: 35.09 Mbit/s
  95th percentile per-packet one-way delay: 113.962 ms
  Loss rate: 4.42%
-- Flow 3:
  Average throughput: 29.53 Mbit/s
  95th percentile per-packet one-way delay: 115.089 ms
  Loss rate: 4.27%
Run 4: Report of PCC-Allegro — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 57.96 Mbit/s)
Flow 1 egress (mean 54.12 Mbit/s)
Flow 2 ingress (mean 36.38 Mbit/s)
Flow 2 egress (mean 35.09 Mbit/s)
Flow 3 ingress (mean 30.31 Mbit/s)
Flow 3 egress (mean 29.53 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 109.08 ms)
Flow 2 (95th percentile 113.96 ms)
Flow 3 (95th percentile 115.09 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 04:21:45
End at: 2018-06-06 04:22:15
Local clock offset: -1.779 ms
Remote clock offset: 11.945 ms

# Below is generated by plot.py at 2018-06-06 06:21:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 115.542 ms
Loss rate: 5.94%
-- Flow 1:
Average throughput: 54.80 Mbit/s
95th percentile per-packet one-way delay: 111.491 ms
Loss rate: 6.61%
-- Flow 2:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 116.329 ms
Loss rate: 4.72%
-- Flow 3:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 117.626 ms
Loss rate: 4.79%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 04:41:44
End at: 2018-06-06 04:42:14
Local clock offset: -2.865 ms
Remote clock offset: 11.191 ms

# Below is generated by plot.py at 2018-06-06 06:21:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.06 Mbit/s
95th percentile per-packet one-way delay: 111.326 ms
Loss rate: 5.95%
-- Flow 1:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 107.950 ms
Loss rate: 6.51%
-- Flow 2:
Average throughput: 34.14 Mbit/s
95th percentile per-packet one-way delay: 112.155 ms
Loss rate: 5.05%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 113.357 ms
Loss rate: 4.78%
Run 6: Report of PCC-Allegro — Data Link

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**Throughput vs. Time**

- **Flow 1 ingress (mean 59.33 Mbit/s)**
- **Flow 1 egress (mean 55.78 Mbit/s)**
- **Flow 2 ingress (mean 35.64 Mbit/s)**
- **Flow 2 egress (mean 34.14 Mbit/s)**
- **Flow 3 ingress (mean 30.48 Mbit/s)**
- **Flow 3 egress (mean 29.53 Mbit/s)**

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**Per-packet one-way delay vs. Time**

- **Flow 1 (95th percentile 107.95 ms)**
- **Flow 2 (95th percentile 112.16 ms)**
- **Flow 3 (95th percentile 113.36 ms)**

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Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 05:01:42
End at: 2018-06-06 05:02:12
Local clock offset: -3.845 ms
Remote clock offset: 7.569 ms

# Below is generated by plot.py at 2018-06-06 06:21:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.96 Mbit/s
  95th percentile per-packet one-way delay: 111.914 ms
  Loss rate: 5.86%
-- Flow 1:
  Average throughput: 55.26 Mbit/s
  95th percentile per-packet one-way delay: 107.773 ms
  Loss rate: 6.60%
-- Flow 2:
  Average throughput: 34.87 Mbit/s
  95th percentile per-packet one-way delay: 113.337 ms
  Loss rate: 4.48%
-- Flow 3:
  Average throughput: 29.42 Mbit/s
  95th percentile per-packet one-way delay: 113.020 ms
  Loss rate: 4.89%
Run 7: Report of PCC-Allegro — Data Link
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 05:22:00
End at: 2018-06-06 05:22:30
Local clock offset: -7.726 ms
Remote clock offset: 12.811 ms

# Below is generated by plot.py at 2018-06-06 06:21:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.99 Mbit/s
  95th percentile per-packet one-way delay: 111.504 ms
  Loss rate: 6.08%
-- Flow 1:
  Average throughput: 55.54 Mbit/s
  95th percentile per-packet one-way delay: 107.899 ms
  Loss rate: 6.81%
-- Flow 2:
  Average throughput: 34.50 Mbit/s
  95th percentile per-packet one-way delay: 112.858 ms
  Loss rate: 4.93%
-- Flow 3:
  Average throughput: 29.35 Mbit/s
  95th percentile per-packet one-way delay: 112.972 ms
  Loss rate: 4.49%
Run 8: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 59.25 Mbps)
- Flow 1 egress (mean 55.54 Mbps)
- Flow 2 ingress (mean 35.97 Mbps)
- Flow 2 egress (mean 34.50 Mbps)
- Flow 3 ingress (mean 30.20 Mbps)
- Flow 3 egress (mean 29.35 Mbps)

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

- Flow 1 (95th percentile 107.90 ms)
- Flow 2 (95th percentile 112.86 ms)
- Flow 3 (95th percentile 112.97 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 05:42:02
End at: 2018-06-06 05:42:32
Local clock offset: -4.063 ms
Remote clock offset: 9.674 ms

# Below is generated by plot.py at 2018-06-06 06:21:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.65 Mbit/s
95th percentile per-packet one-way delay: 117.046 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 55.54 Mbit/s
95th percentile per-packet one-way delay: 112.180 ms
Loss rate: 6.56%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 118.057 ms
Loss rate: 5.27%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 118.881 ms
Loss rate: 4.56%
Run 9: Report of PCC-Allegro — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 06:02:01
End at: 2018-06-06 06:02:31
Local clock offset: -2.09 ms
Remote clock offset: 6.856 ms

# Below is generated by plot.py at 2018-06-06 06:22:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 112.865 ms
Loss rate: 6.30%
-- Flow 1:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 108.426 ms
Loss rate: 7.11%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 113.678 ms
Loss rate: 5.24%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 114.835 ms
Loss rate: 4.18%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 03:03:05
End at: 2018-06-06 03:03:35
Local clock offset: -0.804 ms
Remote clock offset: 5.672 ms

# Below is generated by plot.py at 2018-06-06 06:23:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 89.71 Mbit/s
  95th percentile per-packet one-way delay: 112.892 ms
  Loss rate: 1.69%
-- Flow 1:
  Average throughput: 56.34 Mbit/s
  95th percentile per-packet one-way delay: 110.945 ms
  Loss rate: 1.51%
-- Flow 2:
  Average throughput: 37.19 Mbit/s
  95th percentile per-packet one-way delay: 112.723 ms
  Loss rate: 1.91%
-- Flow 3:
  Average throughput: 26.67 Mbit/s
  95th percentile per-packet one-way delay: 113.998 ms
  Loss rate: 2.22%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 03:23:03
End at: 2018-06-06 03:23:33
Local clock offset: -0.954 ms
Remote clock offset: 3.55 ms

# Below is generated by plot.py at 2018-06-06 06:23:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.63 Mbit/s
95th percentile per-packet one-way delay: 111.860 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 111.203 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 39.85 Mbit/s
95th percentile per-packet one-way delay: 111.975 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 25.95 Mbit/s
95th percentile per-packet one-way delay: 112.704 ms
Loss rate: 2.57%
Run 2: Report of PCC-Expr — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 52.87 Mbps)
  - Flow 1 egress (mean 52.72 Mbps)
  - Flow 2 ingress (mean 39.99 Mbps)
  - Flow 2 egress (mean 39.85 Mbps)
  - Flow 3 ingress (mean 26.14 Mbps)
  - Flow 3 egress (mean 25.96 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 111.20 ms)
  - Flow 2 (95th percentile 111.97 ms)
  - Flow 3 (95th percentile 112.70 ms)
Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 03:43:01
End at: 2018-06-06 03:43:31
Local clock offset: -1.711 ms
Remote clock offset: 8.277 ms

# Below is generated by plot.py at 2018-06-06 06:23:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 107.339 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 105.262 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 40.20 Mbit/s
95th percentile per-packet one-way delay: 107.441 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 26.00 Mbit/s
95th percentile per-packet one-way delay: 107.439 ms
Loss rate: 2.55%
Run 3: Report of PCC-Expr — Data Link

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

Start at: 2018-06-06 04:03:01
End at: 2018-06-06 04:03:31
Local clock offset: -0.853 ms
Remote clock offset: 6.804 ms

# Below is generated by plot.py at 2018-06-06 06:23:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.43 Mbit/s
95th percentile per-packet one-way delay: 110.805 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 110.283 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 111.924 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 28.40 Mbit/s
95th percentile per-packet one-way delay: 112.242 ms
Loss rate: 2.95%
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 54.31 Mbit/s)
- Flow 1 egress (mean 54.21 Mbit/s)
- Flow 2 ingress (mean 39.22 Mbit/s)
- Flow 2 egress (mean 39.12 Mbit/s)
- Flow 3 ingress (mean 28.75 Mbit/s)
- Flow 3 egress (mean 28.40 Mbit/s)
Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 04:22:59
End at: 2018-06-06 04:23:29
Local clock offset: -1.013 ms
Remote clock offset: 12.216 ms

# Below is generated by plot.py at 2018-06-06 06:23:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 88.90 Mbit/s
  95th percentile per-packet one-way delay: 111.295 ms
  Loss rate: 1.05%
-- Flow 1:
  Average throughput: 54.15 Mbit/s
  95th percentile per-packet one-way delay: 108.488 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 38.94 Mbit/s
  95th percentile per-packet one-way delay: 111.715 ms
  Loss rate: 0.88%
-- Flow 3:
  Average throughput: 27.31 Mbit/s
  95th percentile per-packet one-way delay: 110.662 ms
  Loss rate: 2.61%
Run 5: Report of PCC-Expr — Data Link

![Throughput (Mbps) vs Time (s)]

- Flow 1 ingress (mean 54.31 Mbps)
- Flow 1 egress (mean 54.15 Mbps)
- Flow 2 ingress (mean 38.95 Mbps)
- Flow 2 egress (mean 38.94 Mbps)
- Flow 3 ingress (mean 27.55 Mbps)
- Flow 3 egress (mean 27.31 Mbps)

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

- Flow 1 (95th percentile 108.49 ms)
- Flow 2 (95th percentile 111.72 ms)
- Flow 3 (95th percentile 110.66 ms)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 04:42:58
End at: 2018-06-06 04:43:28
Local clock offset: -3.058 ms
Remote clock offset: 7.294 ms

# Below is generated by plot.py at 2018-06-06 06:23:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 89.06 Mbit/s
  95th percentile per-packet one-way delay: 111.671 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 53.76 Mbit/s
  95th percentile per-packet one-way delay: 111.657 ms
  Loss rate: 0.76%
-- Flow 2:
  Average throughput: 40.44 Mbit/s
  95th percentile per-packet one-way delay: 110.967 ms
  Loss rate: 1.30%
-- Flow 3:
  Average throughput: 25.95 Mbit/s
  95th percentile per-packet one-way delay: 112.046 ms
  Loss rate: 2.49%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 05:02:57
End at: 2018-06-06 05:03:27
Local clock offset: -3.108 ms
Remote clock offset: 7.491 ms

# Below is generated by plot.py at 2018-06-06 06:24:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 88.99 Mbit/s
  95th percentile per-packet one-way delay: 108.921 ms
  Loss rate: 1.19%
-- Flow 1:
  Average throughput: 55.39 Mbit/s
  95th percentile per-packet one-way delay: 108.676 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 37.86 Mbit/s
  95th percentile per-packet one-way delay: 109.018 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 26.00 Mbit/s
  95th percentile per-packet one-way delay: 109.035 ms
  Loss rate: 2.48%
Run 7: Report of PCC-Expr — Data Link

![Graph of Throughput and Per-packet one-way delay]
Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 05:23:14
End at: 2018-06-06 05:23:44
Local clock offset: -7.866 ms
Remote clock offset: 11.908 ms

# Below is generated by plot.py at 2018-06-06 06:24:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.95 Mbit/s
95th percentile per-packet one-way delay: 109.961 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 57.11 Mbit/s
95th percentile per-packet one-way delay: 109.446 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 110.036 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 26.02 Mbit/s
95th percentile per-packet one-way delay: 110.336 ms
Loss rate: 2.50%
Run 8: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress** (mean 57.50 Mbit/s)
- **Flow 1 egress** (mean 57.11 Mbit/s)
- **Flow 2 ingress** (mean 36.89 Mbit/s)
- **Flow 2 egress** (mean 36.70 Mbit/s)
- **Flow 3 ingress** (mean 26.20 Mbit/s)
- **Flow 3 egress** (mean 26.02 Mbit/s)

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

- **Flow 1** (95th percentile 109.45 ms)
- **Flow 2** (95th percentile 110.04 ms)
- **Flow 3** (95th percentile 110.34 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 05:43:17
End at: 2018-06-06 05:43:47
Local clock offset: -3.644 ms
Remote clock offset: 9.004 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 88.71 Mbit/s
  95th percentile per-packet one-way delay: 113.041 ms
  Loss rate: 1.08%
-- Flow 1:
  Average throughput: 54.47 Mbit/s
  95th percentile per-packet one-way delay: 112.564 ms
  Loss rate: 0.64%
-- Flow 2:
  Average throughput: 38.94 Mbit/s
  95th percentile per-packet one-way delay: 113.278 ms
  Loss rate: 1.53%
-- Flow 3:
  Average throughput: 25.79 Mbit/s
  95th percentile per-packet one-way delay: 113.513 ms
  Loss rate: 2.46%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 06:03:16
End at: 2018-06-06 06:03:46
Local clock offset: -1.258 ms
Remote clock offset: 6.641 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 109.753 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 55.29 Mbit/s
95th percentile per-packet one-way delay: 108.274 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 110.661 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 110.560 ms
Loss rate: 2.21%
Run 10: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 03:08:09
End at: 2018-06-06 03:08:39
Local clock offset: -0.913 ms
Remote clock offset: 8.147 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 103.629 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 101.371 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 103.353 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 14.85 Mbit/s
95th percentile per-packet one-way delay: 113.404 ms
Loss rate: 5.13%
Run 1: Report of QUIC Cubic — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 31.74 Mbit/s) — Flow 1 egress (mean 31.75 Mbit/s)
Flow 2 ingress (mean 24.17 Mbit/s) — Flow 2 egress (mean 24.11 Mbit/s)
Flow 3 ingress (mean 15.39 Mbit/s) — Flow 3 egress (mean 14.85 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 101.37 ms) — Flow 2 (95th percentile 103.35 ms) — Flow 3 (95th percentile 113.40 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 03:28:07
End at: 2018-06-06 03:28:37
Local clock offset: -1.641 ms
Remote clock offset: 3.534 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.92 Mbit/s
  95th percentile per-packet one-way delay: 107.101 ms
  Loss rate: 0.89%
-- Flow 1:
  Average throughput: 34.76 Mbit/s
  95th percentile per-packet one-way delay: 98.455 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 21.87 Mbit/s
  95th percentile per-packet one-way delay: 107.589 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 14.21 Mbit/s
  95th percentile per-packet one-way delay: 117.444 ms
  Loss rate: 2.12%
Run 2: Report of QUIC Cubic — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 34.76 Mb/s)
Flow 1 egress (mean 34.76 Mb/s)
Flow 2 ingress (mean 21.98 Mb/s)
Flow 2 egress (mean 21.87 Mb/s)
Flow 3 ingress (mean 14.27 Mb/s)
Flow 3 egress (mean 14.21 Mb/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 98.45 ms)
Flow 2 (95th percentile 107.59 ms)
Flow 3 (95th percentile 117.44 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 03:48:06
End at: 2018-06-06 03:48:36
Local clock offset: -1.789 ms
Remote clock offset: 4.346 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.70 Mbit/s
95th percentile per-packet one-way delay: 106.714 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 28.70 Mbit/s
95th percentile per-packet one-way delay: 106.309 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 106.804 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 116.460 ms
Loss rate: 2.89%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 04:08:04
End at: 2018-06-06 04:08:34
Local clock offset: -1.717 ms
Remote clock offset: 9.225 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 105.856 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 105.234 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 105.907 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 116.810 ms
Loss rate: 2.37%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 04:28:03
End at: 2018-06-06 04:28:33
Local clock offset: -1.021 ms
Remote clock offset: 16.916 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 50.93 Mbit/s
  95th percentile per-packet one-way delay: 106.902 ms
  Loss rate: 1.14%
-- Flow 1:
  Average throughput: 29.02 Mbit/s
  95th percentile per-packet one-way delay: 102.772 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 21.04 Mbit/s
  95th percentile per-packet one-way delay: 112.921 ms
  Loss rate: 1.39%
-- Flow 3:
  Average throughput: 24.35 Mbit/s
  95th percentile per-packet one-way delay: 113.498 ms
  Loss rate: 2.41%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 04:48:03
End at: 2018-06-06 04:48:33
Local clock offset: -3.404 ms
Remote clock offset: 9.269 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.43 Mbit/s
95th percentile per-packet one-way delay: 102.915 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 101.781 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 23.87 Mbit/s
95th percentile per-packet one-way delay: 103.094 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 111.076 ms
Loss rate: 2.27%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 05:08:15
End at: 2018-06-06 05:08:45
Local clock offset: -4.602 ms
Remote clock offset: 7.847 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.89 Mbit/s
  95th percentile per-packet one-way delay: 103.668 ms
  Loss rate: 1.07%
-- Flow 1:
  Average throughput: 28.29 Mbit/s
  95th percentile per-packet one-way delay: 100.080 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 24.86 Mbit/s
  95th percentile per-packet one-way delay: 103.534 ms
  Loss rate: 1.19%
-- Flow 3:
  Average throughput: 24.75 Mbit/s
  95th percentile per-packet one-way delay: 113.422 ms
  Loss rate: 2.20%
Run 7: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](Image)
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 05:28:18
End at: 2018-06-06 05:28:48
Local clock offset: -9.098 ms
Remote clock offset: 12.608 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.57 Mbit/s
  95th percentile per-packet one-way delay: 103.639 ms
  Loss rate: 0.81%
-- Flow 1:
  Average throughput: 30.90 Mbit/s
  95th percentile per-packet one-way delay: 98.809 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 25.67 Mbit/s
  95th percentile per-packet one-way delay: 103.762 ms
  Loss rate: 1.06%
-- Flow 3:
  Average throughput: 14.18 Mbit/s
  95th percentile per-packet one-way delay: 114.176 ms
  Loss rate: 1.56%
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 05:48:21
End at: 2018-06-06 05:48:51
Local clock offset: -2.548 ms
Remote clock offset: 9.864 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 54.50 Mbit/s
  95th percentile per-packet one-way delay: 104.551 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 32.24 Mbit/s
  95th percentile per-packet one-way delay: 97.208 ms
  Loss rate: 0.62%
-- Flow 2:
  Average throughput: 24.52 Mbit/s
  95th percentile per-packet one-way delay: 104.316 ms
  Loss rate: 1.11%
-- Flow 3:
  Average throughput: 18.34 Mbit/s
  95th percentile per-packet one-way delay: 114.749 ms
  Loss rate: 3.49%
Run 9: Report of QUIC Cubic — Data Link

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**Graph 1:**
- **X-axis:** Time (s)
- **Y-axis:** Throughput (Mbps)
- **Legend:**
  - Flow 1 ingress (mean 32.26 Mbps/s)
  - Flow 1 egress (mean 32.24 Mbps/s)
  - Flow 2 ingress (mean 24.59 Mbps/s)
  - Flow 2 egress (mean 24.52 Mbps/s)
  - Flow 3 ingress (mean 18.68 Mbps/s)
  - Flow 3 egress (mean 18.34 Mbps/s)

**Graph 2:**
- **X-axis:** Time (s)
- **Y-axis:** Per-packet one-way delay (ms)
- **Legend:**
  - Flow 1 (95th percentile 97.21 ms)
  - Flow 2 (95th percentile 104.32 ms)
  - Flow 3 (95th percentile 114.75 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 06:08:20
End at: 2018-06-06 06:08:50
Local clock offset: -2.242 ms
Remote clock offset: 6.21 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.26 Mbit/s
95th percentile per-packet one-way delay: 102.808 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 32.14 Mbit/s
95th percentile per-packet one-way delay: 100.500 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 102.625 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 113.123 ms
Loss rate: 4.36%
Run 10: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 32.18 Mbit/s)
- Flow 1 egress (mean 32.14 Mbit/s)
- Flow 2 ingress (mean 25.38 Mbit/s)
- Flow 2 egress (mean 25.31 Mbit/s)
- Flow 3 ingress (mean 19.88 Mbit/s)
- Flow 3 egress (mean 19.34 Mbit/s)
Run 1: Statistics of SCReAM

Start at: 2018-06-06 02:55:39
End at: 2018-06-06 02:56:09
Local clock offset: -2.022 ms
Remote clock offset: 9.329 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 82.955 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 82.218 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 82.986 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 82.810 ms
  Loss rate: 1.84%
Run 1: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps) over time]

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

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Run 2: Statistics of SCReAM

Start at: 2018-06-06 03:15:38
End at: 2018-06-06 03:16:08
Local clock offset: -1.747 ms
Remote clock offset: 7.244 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 81.408 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 80.056 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 81.424 ms
  Loss rate: 1.03%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 80.407 ms
  Loss rate: 1.84%
Run 2: Report of SCReAM — Data Link

![Graph of Throughput vs Time](image1)

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

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

- Flow 1 (95th percentile 80.06 ms)
- Flow 2 (95th percentile 81.42 ms)
- Flow 3 (95th percentile 80.41 ms)
Run 3: Statistics of SCReAM

Start at: 2018-06-06 03:35:36
End at: 2018-06-06 03:36:06
Local clock offset: -1.604 ms
Remote clock offset: 3.861 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 84.411 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.841 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.662 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 84.427 ms
Loss rate: 1.46%
Run 3: Report of SCReAM — Data Link

![Data Link Graph]

![Packet Delivery Graph]
Run 4: Statistics of SCReAM

Start at: 2018-06-06 03:55:36
End at: 2018-06-06 03:56:06
Local clock offset: -0.975 ms
Remote clock offset: 8.235 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.116 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.487 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.244 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.135 ms
Loss rate: 1.84%
Run 4: Report of SCReAM — Data Link

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

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

- **Per-packet core and delay (ms):**
  - Flow 1 (95th percentile 80.49 ms)
  - Flow 2 (95th percentile 80.24 ms)
  - Flow 3 (95th percentile 81.14 ms)
Run 5: Statistics of SCReAM

Start at: 2018-06-06 04:15:34
End at: 2018-06-06 04:16:04
Local clock offset: -2.54 ms
Remote clock offset: 11.258 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.33 Mbit/s
  95th percentile per-packet one-way delay: 83.720 ms
  Loss rate: 0.99%
-- Flow 1:
  Average throughput: 0.11 Mbit/s
  95th percentile per-packet one-way delay: 82.707 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 82.854 ms
  Loss rate: 1.03%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 83.742 ms
  Loss rate: 1.84%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-06-06 04:35:33
End at: 2018-06-06 04:36:03
Local clock offset: -1.299 ms
Remote clock offset: 15.708 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics

-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 81.013 ms
  Loss rate: 0.91%

-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 80.650 ms
  Loss rate: 0.51%

-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 80.195 ms
  Loss rate: 1.03%

-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 81.058 ms
  Loss rate: 1.84%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-06-06 04:55:31
End at: 2018-06-06 04:56:01
Local clock offset: -4.427 ms
Remote clock offset: 4.568 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 83.057 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 82.359 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 83.071 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 82.897 ms
  Loss rate: 1.84%
Run 7: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one way delay (ms)]
Run 8: Statistics of SCReAM

Start at: 2018-06-06 05:15:48
End at: 2018-06-06 05:16:18
Local clock offset: -6.156 ms
Remote clock offset: 11.289 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.855 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.843 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.492 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.882 ms
Loss rate: 1.84%
Run 8: Report of SCReAM — Data Link

![Data Link Throughput and Delay Graphs]

- Throughput (Mbps)
- Time (s)
- Delay (ms)

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

- **Flow 1** (95th percentile 81.84 ms)
- **Flow 2** (95th percentile 81.49 ms)
- **Flow 3** (95th percentile 81.88 ms)
Run 9: Statistics of SCReAM

Start at: 2018-06-06 05:35:50
End at: 2018-06-06 05:36:20
Local clock offset: -7.467 ms
Remote clock offset: 13.436 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 81.581 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.608 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.464 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.458 ms
Loss rate: 1.84%
Run 9: Report of SCReAM — Data Link

![Graph showing throughput and packet end-to-end delay over time for different flows](image1)

![Graph showing packet inter-arrival time over time for different flows](image2)
Run 10: Statistics of SCReAM

Start at: 2018-06-06 05:55:51
End at: 2018-06-06 05:56:21
Local clock offset: -1.669 ms
Remote clock offset: 7.679 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.026 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.038 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.541 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.568 ms
Loss rate: 1.50%
Run 10: Report of SCReAM — Data Link

![Graph showing throughput and packet inter-arrival time over time for different flows.]

- Throughput: Blue line for Flow 1 ingress (mean 0.22 Mbit/s), Green line for Flow 2 ingress (mean 0.22 Mbit/s), Red line for Flow 3 ingress (mean 0.22 Mbit/s).
- Packet inter-arrival time: Blue line for Flow 1 (95th percentile 83.04 ms), Green line for Flow 2 (95th percentile 82.54 ms), Red line for Flow 3 (95th percentile 82.57 ms).
Run 1: Statistics of Sprout

Start at: 2018-06-06 02:56:50
End at: 2018-06-06 02:57:20
Local clock offset: -1.148 ms
Remote clock offset: 10.132 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 83.450 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.532 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 83.325 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 83.974 ms
Loss rate: 1.23%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-06-06 03:16:48
End at: 2018-06-06 03:17:18
Local clock offset: -2.522 ms
Remote clock offset: 4.075 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
# Total of 3 flows:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 84.323 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 84.300 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 83.778 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 84.732 ms
Loss rate: 1.20%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-06-06 03:36:47
End at: 2018-06-06 03:37:17
Local clock offset: -2.474 ms
Remote clock offset: 3.953 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 83.962 ms
Loss rate: 0.66%
-- Flow 1:
 Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 83.588 ms
 Loss rate: 0.39%
-- Flow 2:
 Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 84.309 ms
 Loss rate: 0.83%
-- Flow 3:
 Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.337 ms
 Loss rate: 1.12%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-06-06 03:56:46
End at: 2018-06-06 03:57:16
Local clock offset: -1.675 ms
Remote clock offset: 3.938 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 85.308 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 85.810 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 85.211 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 84.708 ms
Loss rate: 1.74%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-06-06 04:16:45
End at: 2018-06-06 04:17:15
Local clock offset: -1.009 ms
Remote clock offset: 14.647 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.79 Mbit/s
  95th percentile per-packet one-way delay: 82.675 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 0.34 Mbit/s
  95th percentile per-packet one-way delay: 81.672 ms
  Loss rate: 1.35%
-- Flow 2:
  Average throughput: 0.28 Mbit/s
  95th percentile per-packet one-way delay: 81.940 ms
  Loss rate: 0.85%
-- Flow 3:
  Average throughput: 0.83 Mbit/s
  95th percentile per-packet one-way delay: 83.492 ms
  Loss rate: 0.18%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-06-06 04:36:44
End at: 2018-06-06 04:37:14
Local clock offset: -2.994 ms
Remote clock offset: 14.822 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 80.011 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 80.101 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 80.014 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 79.051 ms
Loss rate: 0.44%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-06-06 04:56:42
End at: 2018-06-06 04:57:12
Local clock offset: -3.725 ms
Remote clock offset: 4.096 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 85.595 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 84.145 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 85.944 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 85.447 ms
Loss rate: 2.17%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-06-06 05:16:59
End at: 2018-06-06 05:17:29
Local clock offset: -6.319 ms
Remote clock offset: 11.595 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 82.734 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 83.047 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 82.442 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 82.139 ms
Loss rate: 2.76%
Run 8: Report of Sprout — Data Link

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

Key:
- Flow 1 ingress (mean 0.38 Mbit/s)
- Flow 1 egress (mean 0.39 Mbit/s)
- Flow 2 ingress (mean 0.25 Mbit/s)
- Flow 2 egress (mean 0.25 Mbit/s)
- Flow 3 ingress (mean 0.38 Mbit/s)
- Flow 3 egress (mean 0.38 Mbit/s)
Run 9: Statistics of Sprout

Start at: 2018-06-06 05:37:01
End at: 2018-06-06 05:37:31
Local clock offset: -6.917 ms
Remote clock offset: 9.888 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.17 Mbit/s
  95th percentile per-packet one-way delay: 86.950 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 0.66 Mbit/s
  95th percentile per-packet one-way delay: 86.942 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 0.59 Mbit/s
  95th percentile per-packet one-way delay: 87.155 ms
  Loss rate: 0.41%
-- Flow 3:
  Average throughput: 0.36 Mbit/s
  95th percentile per-packet one-way delay: 85.773 ms
  Loss rate: 1.66%
Run 9: Report of Sprout — Data Link
Run 10: Statistics of Sprout

Start at: 2018-06-06 05:57:02
End at: 2018-06-06 05:57:32
Local clock offset: -3.12 ms
Remote clock offset: 7.38 ms

# Below is generated by plot.py at 2018-06-06 06:25:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 81.542 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 81.380 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 81.695 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 81.497 ms
Loss rate: 0.52%
Run 10: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 0.27 Mbps)
- Flow 1 egress (mean 0.27 Mbps)
- Flow 2 ingress (mean 0.34 Mbps)
- Flow 2 egress (mean 0.34 Mbps)
- Flow 3 ingress (mean 0.45 Mbps)
- Flow 3 egress (mean 0.45 Mbps)

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

- Flow 1 (95th percentile 81.38 ms)
- Flow 2 (95th percentile 81.69 ms)
- Flow 3 (95th percentile 81.50 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 02:54:20
End at: 2018-06-06 02:54:51
Local clock offset: -1.361 ms
Remote clock offset: 7.481 ms

# Below is generated by plot.py at 2018-06-06 06:26:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.03 Mbit/s
  95th percentile per-packet one-way delay: 114.621 ms
  Loss rate: 0.82%
-- Flow 1:
  Average throughput: 49.88 Mbit/s
  95th percentile per-packet one-way delay: 114.399 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 36.62 Mbit/s
  95th percentile per-packet one-way delay: 113.941 ms
  Loss rate: 0.99%
-- Flow 3:
  Average throughput: 29.81 Mbit/s
  95th percentile per-packet one-way delay: 115.736 ms
  Loss rate: 2.05%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 03:14:19
End at: 2018-06-06 03:14:49
Local clock offset: -1.751 ms
Remote clock offset: 4.186 ms

# Below is generated by plot.py at 2018-06-06 06:26:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.29 Mbit/s
95th percentile per-packet one-way delay: 112.605 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 49.13 Mbit/s
95th percentile per-packet one-way delay: 112.654 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 112.194 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 112.781 ms
Loss rate: 3.43%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 03:34:17
End at: 2018-06-06 03:34:47
Local clock offset: -1.577 ms
Remote clock offset: 7.887 ms

# Below is generated by plot.py at 2018-06-06 06:26:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.20 Mbit/s
  95th percentile per-packet one-way delay: 109.608 ms
  Loss rate: 0.80%
-- Flow 1:
  Average throughput: 49.70 Mbit/s
  95th percentile per-packet one-way delay: 109.362 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 37.20 Mbit/s
  95th percentile per-packet one-way delay: 109.106 ms
  Loss rate: 0.93%
-- Flow 3:
  Average throughput: 29.75 Mbit/s
  95th percentile per-packet one-way delay: 110.484 ms
  Loss rate: 2.27%
Run 3: Report of TaoVA-100x — Data Link

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Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 03:54:17
End at: 2018-06-06 03:54:47
Local clock offset: ~0.928 ms
Remote clock offset: 4.295 ms

# Below is generated by plot.py at 2018-06-06 06:26:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 113.229 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 112.833 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 37.30 Mbit/s
95th percentile per-packet one-way delay: 113.519 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 113.314 ms
Loss rate: 2.29%
Run 4: Report of TaoVA-100x — Data Link

![Graphs showing network performance metrics over time. The top graph tracks throughput (Mbps) over time with different colors representing different flows. The bottom graph tracks per-packet one-way delay (ms) over time, also with different colors for different flows.]
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 04:14:15
End at: 2018-06-06 04:14:45
Local clock offset: -0.999 ms
Remote clock offset: 10.439 ms

# Below is generated by plot.py at 2018-06-06 06:27:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 114.370 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 50.74 Mbit/s
95th percentile per-packet one-way delay: 113.963 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 37.83 Mbit/s
95th percentile per-packet one-way delay: 114.799 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 114.407 ms
Loss rate: 2.12%
Run 5: Report of TaoVA-100x — Data Link

![Graph of data link throughput and per-packet delay over time for different flows.](image-url)
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 04:34:14
End at: 2018-06-06 04:34:44
Local clock offset: -2.613 ms
Remote clock offset: 16.582 ms

# Below is generated by plot.py at 2018-06-06 06:27:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.84 Mbit/s
  95th percentile per-packet one-way delay: 107.661 ms
  Loss rate: 0.78%
-- Flow 1:
  Average throughput: 50.86 Mbit/s
  95th percentile per-packet one-way delay: 107.272 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 37.74 Mbit/s
  95th percentile per-packet one-way delay: 107.224 ms
  Loss rate: 0.79%
-- Flow 3:
  Average throughput: 30.13 Mbit/s
  95th percentile per-packet one-way delay: 108.562 ms
  Loss rate: 2.35%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 04:54:13
End at: 2018-06-06 04:54:43
Local clock offset: -2.836 ms
Remote clock offset: 7.877 ms

# Below is generated by plot.py at 2018-06-06 06:27:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.31 Mbit/s
95th percentile per-packet one-way delay: 110.426 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 46.30 Mbit/s
95th percentile per-packet one-way delay: 110.699 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 37.67 Mbit/s
95th percentile per-packet one-way delay: 110.240 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 110.092 ms
Loss rate: 2.27%
Run 7: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 46.27 Mbit/s)
- Flow 1 egress (mean 46.30 Mbit/s)
- Flow 2 ingress (mean 37.70 Mbit/s)
- Flow 2 egress (mean 37.67 Mbit/s)
- Flow 3 ingress (mean 30.44 Mbit/s)
- Flow 3 egress (mean 30.29 Mbit/s)

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

- Flow 1 (95th percentile 110.70 ms)
- Flow 2 (95th percentile 110.24 ms)
- Flow 3 (95th percentile 110.09 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 05:14:29
End at: 2018-06-06 05:14:59
Local clock offset: -6.726 ms
Remote clock offset: 10.95 ms

# Below is generated by plot.py at 2018-06-06 06:27:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.93 Mbit/s
95th percentile per-packet one-way delay: 109.872 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 51.00 Mbit/s
95th percentile per-packet one-way delay: 109.813 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 37.54 Mbit/s
95th percentile per-packet one-way delay: 109.550 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 30.38 Mbit/s
95th percentile per-packet one-way delay: 110.144 ms
Loss rate: 2.30%
Run 8: Report of TaoVA-100x — Data Link

![Graph showing network performance metrics over time for different data flows. The graphs depict throughput and per-packet end-to-end delay for three data flows labeled Flow 1, Flow 2, and Flow 3, each with distinct colors and with 95th percentile delay values indicated.]
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 05:34:30
End at: 2018-06-06 05:35:00
Local clock offset: -8.438 ms
Remote clock offset: 9.706 ms

# Below is generated by plot.py at 2018-06-06 06:28:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 113.812 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 113.722 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 113.678 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 114.044 ms
Loss rate: 2.31%
Run 9: Report of TaoVA-100x — Data Link

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

- **Throughput Graph:**
  - Flow 1 ingress (mean 50.39 Mbit/s)
  - Flow 1 egress (mean 50.46 Mbit/s)
  - Flow 2 ingress (mean 37.89 Mbit/s)
  - Flow 2 egress (mean 37.87 Mbit/s)
  - Flow 3 ingress (mean 30.40 Mbit/s)
  - Flow 3 egress (mean 30.25 Mbit/s)

- **Delay Graph:**
  - Flow 1 (95th percentile 113.72 ms)
  - Flow 2 (95th percentile 113.68 ms)
  - Flow 3 (95th percentile 114.04 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 05:54:32
End at: 2018-06-06 05:55:02
Local clock offset: -2.548 ms
Remote clock offset: 8.009 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 110.210 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 109.838 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 110.324 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 110.446 ms
Loss rate: 2.23%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 02:49:23
End at: 2018-06-06 02:49:53
Local clock offset: -2.72 ms
Remote clock offset: 11.361 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 95.276 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 36.31 Mbit/s
95th percentile per-packet one-way delay: 95.183 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 96.580 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 13.26 Mbit/s
95th percentile per-packet one-way delay: 104.413 ms
Loss rate: 2.66%
Run 1: Report of TCP Vegas — Data Link

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

- Flow 1: Ingress (mean 35.25 Mbit/s) and Egress (mean 36.31 Mbit/s)
- Flow 2: Ingress (mean 23.68 Mbit/s) and Egress (mean 23.63 Mbit/s)
- Flow 3: Ingress (mean 13.39 Mbit/s) and Egress (mean 13.26 Mbit/s)

The graphs illustrate the performance metrics for each flow, indicating variations in throughput and delays over time.}
Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 03:09:23
End at: 2018-06-06 03:09:53
Local clock offset: -2.532 ms
Remote clock offset: 7.86 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 91.925 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 33.78 Mbit/s
95th percentile per-packet one-way delay: 91.503 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 24.28 Mbit/s
95th percentile per-packet one-way delay: 89.283 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 109.877 ms
Loss rate: 1.96%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 03:29:21
End at: 2018-06-06 03:29:51
Local clock offset: -0.865 ms
Remote clock offset: 7.914 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 95.034 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 34.29 Mbit/s
95th percentile per-packet one-way delay: 91.883 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 21.96 Mbit/s
95th percentile per-packet one-way delay: 102.666 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 108.441 ms
Loss rate: 1.94%
Run 3: Report of TCP Vegas — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 03:49:20
End at: 2018-06-06 03:49:50
Local clock offset: -1.789 ms
Remote clock offset: 7.871 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.77 Mbit/s
95th percentile per-packet one-way delay: 91.539 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 33.92 Mbit/s
95th percentile per-packet one-way delay: 91.175 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 94.206 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 19.31 Mbit/s
95th percentile per-packet one-way delay: 111.548 ms
Loss rate: 1.89%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 04:09:18
End at: 2018-06-06 04:09:48
Local clock offset: -0.953 ms
Remote clock offset: 13.118 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 92.866 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 90.278 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 93.816 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 112.719 ms
Loss rate: 1.92%
Run 5: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 29.14 Mbit/s)
- Flow 1 egress (mean 29.15 Mbit/s)
- Flow 2 ingress (mean 35.94 Mbit/s)
- Flow 2 egress (mean 35.92 Mbit/s)
- Flow 3 ingress (mean 19.10 Mbit/s)
- Flow 3 egress (mean 19.05 Mbit/s)

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

- Flow 1 (95th percentile 90.28 ms)
- Flow 2 (95th percentile 93.82 ms)
- Flow 3 (95th percentile 112.72 ms)
Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 04:29:17
End at: 2018-06-06 04:29:47
Local clock offset: -1.772 ms
Remote clock offset: 16.684 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.09 Mbit/s
  95th percentile per-packet one-way delay: 93.188 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 32.26 Mbit/s
  95th percentile per-packet one-way delay: 91.834 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 24.97 Mbit/s
  95th percentile per-packet one-way delay: 98.273 ms
  Loss rate: 0.47%
-- Flow 3:
  Average throughput: 12.98 Mbit/s
  95th percentile per-packet one-way delay: 113.035 ms
  Loss rate: 1.95%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 04:49:16
End at: 2018-06-06 04:49:46
Local clock offset: -3.406 ms
Remote clock offset: 8.587 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.51 Mbit/s
95th percentile per-packet one-way delay: 92.804 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 89.464 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 28.81 Mbit/s
95th percentile per-packet one-way delay: 93.477 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 111.581 ms
Loss rate: 1.91%
Run 7: Report of TCP Vegas — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 29.14 Mbps)
  - Flow 1 egress (mean 29.15 Mbps)
  - Flow 2 ingress (mean 28.75 Mbps)
  - Flow 2 egress (mean 28.81 Mbps)
  - Flow 3 ingress (mean 19.01 Mbps)
  - Flow 3 egress (mean 16.97 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 89.46 ms)
  - Flow 2 (95th percentile 93.48 ms)
  - Flow 3 (95th percentile 111.58 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 05:09:30
End at: 2018-06-06 05:10:00
Local clock offset: -4.945 ms
Remote clock offset: 8.693 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 93.767 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 92.803 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 91.823 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 19.76 Mbit/s
95th percentile per-packet one-way delay: 112.276 ms
Loss rate: 1.90%
Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 05:29:32
End at: 2018-06-06 05:30:02
Local clock offset: -8.412 ms
Remote clock offset: 9.159 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 97.617 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 34.10 Mbit/s
95th percentile per-packet one-way delay: 94.366 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 21.90 Mbit/s
95th percentile per-packet one-way delay: 99.306 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 109.321 ms
Loss rate: 1.89%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 05:49:35
End at: 2018-06-06 05:50:05
Local clock offset: -2.378 ms
Remote clock offset: 5.789 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.17 Mbit/s
95th percentile per-packet one-way delay: 98.069 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 94.499 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 99.559 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 109.764 ms
Loss rate: 1.89%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-06-06 03:06:54
End at: 2018-06-06 03:07:24
Local clock offset: -0.888 ms
Remote clock offset: 4.663 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.82 Mbit/s
95th percentile per-packet one-way delay: 118.052 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 115.031 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 118.395 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 118.895 ms
Loss rate: 0.80%
Run 1: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 33.99 Mbit/s) - Light blue dotted line
- Flow 1 egress (mean 34.03 Mbit/s) - Light blue solid line
- Flow 2 ingress (mean 31.06 Mbit/s) - Green dotted line
- Flow 2 egress (mean 31.06 Mbit/s) - Green solid line
- Flow 3 ingress (mean 15.67 Mbit/s) - Red dotted line
- Flow 3 egress (mean 15.82 Mbit/s) - Red solid line

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

Legend:
- Flow 1 (95th percentile 115.03 ms) - Blue dotted line
- Flow 2 (95th percentile 118.39 ms) - Green dotted line
- Flow 3 (95th percentile 118.89 ms) - Red dotted line

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Run 2: Statistics of Verus

Start at: 2018-06-06 03:26:52
End at: 2018-06-06 03:27:22
Local clock offset: -1.669 ms
Remote clock offset: 3.349 ms

# Below is generated by plot.py at 2018-06-06 06:28:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 114.452 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 108.749 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 31.68 Mbit/s
95th percentile per-packet one-way delay: 116.675 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 19.17 Mbit/s
95th percentile per-packet one-way delay: 117.993 ms
Loss rate: 0.50%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-06-06 03:46:50  
End at: 2018-06-06 03:47:20  
Local clock offset: -0.952 ms  
Remote clock offset: 8.271 ms

# Below is generated by plot.py at 2018-06-06 06:29:12  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 69.23 Mbit/s  
95th percentile per-packet one-way delay: 114.374 ms  
Loss rate: 1.09%

-- Flow 1:
Average throughput: 37.18 Mbit/s  
95th percentile per-packet one-way delay: 111.105 ms  
Loss rate: 0.67%

-- Flow 2:
Average throughput: 37.37 Mbit/s  
95th percentile per-packet one-way delay: 114.817 ms  
Loss rate: 1.12%

-- Flow 3:
Average throughput: 22.04 Mbit/s  
95th percentile per-packet one-way delay: 114.992 ms  
Loss rate: 3.13%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-06-06 04:06:49
End at: 2018-06-06 04:07:19
Local clock offset: -2.505 ms
Remote clock offset: 8.664 ms

# Below is generated by plot.py at 2018-06-06 06:29:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 115.270 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 106.046 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 23.34 Mbit/s
95th percentile per-packet one-way delay: 117.218 ms
Loss rate: 2.22%
-- Flow 3:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 118.309 ms
Loss rate: 0.27%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-06 04:26:48
End at: 2018-06-06 04:27:18
Local clock offset: -1.78 ms
Remote clock offset: 13.19 ms

# Below is generated by plot.py at 2018-06-06 06:29:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.02 Mbit/s
95th percentile per-packet one-way delay: 117.611 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 115.058 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 25.14 Mbit/s
95th percentile per-packet one-way delay: 117.584 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 37.99 Mbit/s
95th percentile per-packet one-way delay: 117.836 ms
Loss rate: 1.63%
Run 5: Report of Verus — Data Link

![Graph showing network performance metrics over time.](image-url)
Run 6: Statistics of Verus

Start at: 2018-06-06 04:46:47
End at: 2018-06-06 04:47:17
Local clock offset: -4.012 ms
Remote clock offset: 6.038 ms

# Below is generated by plot.py at 2018-06-06 06:29:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.30 Mbit/s
95th percentile per-packet one-way delay: 117.344 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 114.387 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 117.551 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 25.61 Mbit/s
95th percentile per-packet one-way delay: 117.979 ms
Loss rate: 3.35%
Run 6: Report of Verus — Data Link

![Diagram of network throughput and delay over time for different flows.](image-url)
Run 7: Statistics of Verus

Start at: 2018-06-06 05:06:55
End at: 2018-06-06 05:07:25
Local clock offset: -4.237 ms
Remote clock offset: 7.406 ms

# Below is generated by plot.py at 2018-06-06 06:29:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 65.28 Mbit/s
  95th percentile per-packet one-way delay: 113.634 ms
  Loss rate: 1.18%
-- Flow 1:
  Average throughput: 38.99 Mbit/s
  95th percentile per-packet one-way delay: 109.544 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 27.51 Mbit/s
  95th percentile per-packet one-way delay: 113.799 ms
  Loss rate: 1.71%
-- Flow 3:
  Average throughput: 24.45 Mbit/s
  95th percentile per-packet one-way delay: 115.907 ms
  Loss rate: 3.25%
Run 7: Report of Verus — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 38.96 Mbit/s) — Flow 1 egress (mean 38.99 Mbit/s)
Flow 2 ingress (mean 27.75 Mbit/s) — Flow 2 egress (mean 27.51 Mbit/s)
Flow 3 ingress (mean 24.82 Mbit/s) — Flow 3 egress (mean 24.45 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 109.54 ms) — Flow 2 (95th percentile 113.80 ms) — Flow 3 (95th percentile 115.91 ms)
Run 8: Statistics of Verus

Start at: 2018-06-06 05:27:03
End at: 2018-06-06 05:27:33
Local clock offset: -8.999 ms
Remote clock offset: 12.369 ms

# Below is generated by plot.py at 2018-06-06 06:29:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.13 Mbit/s
95th percentile per-packet one-way delay: 114.613 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 42.24 Mbit/s
95th percentile per-packet one-way delay: 109.588 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 26.23 Mbit/s
95th percentile per-packet one-way delay: 115.142 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 19.89 Mbit/s
95th percentile per-packet one-way delay: 115.752 ms
Loss rate: 0.27%
Run 8: Report of Verus — Data Link

The graphs depict the throughput and per-packet one-way delay over time for three flows labeled as Flow 1, Flow 2, and Flow 3.

Throughput (Mbps):
- Flow 1 ingress (mean 42.28 Mbps)
- Flow 1 egress (mean 42.24 Mbps)
- Flow 2 ingress (mean 26.39 Mbps)
- Flow 2 egress (mean 26.23 Mbps)
- Flow 3 ingress (mean 19.81 Mbps)
- Flow 3 egress (mean 19.89 Mbps)

Per-packet one-way delay (ms):
- Flow 1 (95th percentile 109.59 ms)
- Flow 2 (95th percentile 115.14 ms)
- Flow 3 (95th percentile 115.75 ms)
Run 9: Statistics of Verus

Start at: 2018-06-06 05:47:05
End at: 2018-06-06 05:47:35
Local clock offset: -2.787 ms
Remote clock offset: 6.901 ms

# Below is generated by plot.py at 2018-06-06 06:29:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.02 Mbit/s
95th percentile per-packet one-way delay: 117.745 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 34.74 Mbit/s
95th percentile per-packet one-way delay: 109.380 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 34.80 Mbit/s
95th percentile per-packet one-way delay: 118.778 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 120.191 ms
Loss rate: 2.19%
Run 9: Report of Verus — Data Link

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Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 34.61 Mbit/s)  Flow 1 egress (mean 34.74 Mbit/s)
Flow 2 ingress (mean 35.22 Mbit/s)  Flow 2 egress (mean 34.80 Mbit/s)
Flow 3 ingress (mean 25.50 Mbit/s)  Flow 3 egress (mean 25.27 Mbit/s)

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Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 109.38 ms)  Flow 2 (95th percentile 118.78 ms)  Flow 3 (95th percentile 120.19 ms)
Run 10: Statistics of Verus

Start at: 2018-06-06 06:07:04
End at: 2018-06-06 06:07:34
Local clock offset: -1.654 ms
Remote clock offset: 2.716 ms

# Below is generated by plot.py at 2018-06-06 06:29:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 65.27 Mbit/s
  95th percentile per-packet one-way delay: 119.073 ms
  Loss rate: 1.04%
-- Flow 1:
  Average throughput: 39.90 Mbit/s
  95th percentile per-packet one-way delay: 116.708 ms
  Loss rate: 0.92%
-- Flow 2:
  Average throughput: 29.67 Mbit/s
  95th percentile per-packet one-way delay: 119.263 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 17.84 Mbit/s
  95th percentile per-packet one-way delay: 119.709 ms
  Loss rate: 3.33%
Run 10: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 02:58:01
End at: 2018-06-06 02:58:31
Local clock offset: -1.849 ms
Remote clock offset: 3.8 ms

# Below is generated by plot.py at 2018-06-06 06:30:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.28 Mbit/s
  95th percentile per-packet one-way delay: 116.155 ms
  Loss rate: 3.09%
-- Flow 1:
  Average throughput: 48.31 Mbit/s
  95th percentile per-packet one-way delay: 113.296 ms
  Loss rate: 3.28%
-- Flow 2:
  Average throughput: 31.66 Mbit/s
  95th percentile per-packet one-way delay: 117.467 ms
  Loss rate: 2.46%
-- Flow 3:
  Average throughput: 24.40 Mbit/s
  95th percentile per-packet one-way delay: 119.905 ms
  Loss rate: 3.57%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 03:17:59
End at: 2018-06-06 03:18:29
Local clock offset: -0.982 ms
Remote clock offset: 7.469 ms

# Below is generated by plot.py at 2018-06-06 06:30:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 78.72 Mbit/s
  95th percentile per-packet one-way delay: 109.419 ms
  Loss rate: 4.93%
-- Flow 1:
  Average throughput: 51.85 Mbit/s
  95th percentile per-packet one-way delay: 106.488 ms
  Loss rate: 6.13%
-- Flow 2:
  Average throughput: 29.43 Mbit/s
  95th percentile per-packet one-way delay: 112.052 ms
  Loss rate: 2.40%
-- Flow 3:
  Average throughput: 22.48 Mbit/s
  95th percentile per-packet one-way delay: 114.687 ms
  Loss rate: 2.89%
Run 2: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 54.92 Mbit/s)
- Flow 1 egress (mean 51.85 Mbit/s)
- Flow 2 ingress (mean 29.90 Mbit/s)
- Flow 2 egress (mean 29.43 Mbit/s)
- Flow 3 ingress (mean 22.75 Mbit/s)
- Flow 3 egress (mean 22.48 Mbit/s)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 03:37:57
End at: 2018-06-06 03:38:27
Local clock offset: -2.491 ms
Remote clock offset: 4.38 ms

# Below is generated by plot.py at 2018-06-06 06:30:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.08 Mbit/s
95th percentile per-packet one-way delay: 111.680 ms
Loss rate: 3.15%
-- Flow 1:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 109.029 ms
Loss rate: 3.68%
-- Flow 2:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 114.154 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 22.39 Mbit/s
95th percentile per-packet one-way delay: 116.293 ms
Loss rate: 2.79%
Run 3: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 51.53 Mbit/s)**
- **Flow 1 egress (mean 49.92 Mbit/s)**
- **Flow 2 ingress (mean 28.71 Mbit/s)**
- **Flow 2 egress (mean 26.42 Mbit/s)**
- **Flow 3 ingress (mean 22.63 Mbit/s)**
- **Flow 3 egress (mean 22.39 Mbit/s)**

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

- **Flow 1 (95th percentile 109.03 ms)**
- **Flow 2 (95th percentile 114.15 ms)**
- **Flow 3 (95th percentile 116.29 ms)**

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Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 03:57:57
End at: 2018-06-06 03:58:27
Local clock offset: -1.668 ms
Remote clock offset: 7.743 ms

# Below is generated by plot.py at 2018-06-06 06:30:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.25 Mbit/s
95th percentile per-packet one-way delay: 111.592 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 48.77 Mbit/s
95th percentile per-packet one-way delay: 108.947 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 29.42 Mbit/s
95th percentile per-packet one-way delay: 111.822 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 113.476 ms
Loss rate: 3.39%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 04:17:56
End at: 2018-06-06 04:18:26
Local clock offset: -1.017 ms
Remote clock offset: 11.339 ms

# Below is generated by plot.py at 2018-06-06 06:30:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.06 Mbit/s
95th percentile per-packet one-way delay: 115.159 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 51.66 Mbit/s
95th percentile per-packet one-way delay: 112.917 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 115.805 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 23.73 Mbit/s
95th percentile per-packet one-way delay: 118.618 ms
Loss rate: 2.50%
Run 5: Report of PCC-Vivace — Data Link

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

- **Flow 1**: Ingress (mean 53.65 Mbit/s), Egress (mean 51.66 Mbit/s)
- **Flow 2**: Ingress (mean 31.61 Mbit/s), Egress (mean 31.34 Mbit/s)
- **Flow 3**: Ingress (mean 23.91 Mbit/s), Egress (mean 23.73 Mbit/s)

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

- **Flow 1**: 95th percentile 112.92 ms
- **Flow 2**: 95th percentile 115.81 ms
- **Flow 3**: 95th percentile 118.62 ms
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 04:37:54
End at: 2018-06-06 04:38:24
Local clock offset: -2.42 ms
Remote clock offset: 13.976 ms

# Below is generated by plot.py at 2018-06-06 06:30:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.04 Mbit/s
  95th percentile per-packet one-way delay: 110.443 ms
  Loss rate: 3.28%
-- Flow 1:
  Average throughput: 51.39 Mbit/s
  95th percentile per-packet one-way delay: 107.212 ms
  Loss rate: 3.76%
-- Flow 2:
  Average throughput: 31.65 Mbit/s
  95th percentile per-packet one-way delay: 110.389 ms
  Loss rate: 2.28%
-- Flow 3:
  Average throughput: 23.45 Mbit/s
  95th percentile per-packet one-way delay: 112.503 ms
  Loss rate: 2.71%
Run 6: Report of PCC-Vivace — Data Link

![Graph of throughput and delay vs. time for different flows, with annotations for mean throughput and 95th percentile delay.]

- Flow 1 ingress (mean 53.08 Mbit/s)
- Flow 1 egress (mean 51.39 Mbit/s)
- Flow 2 ingress (mean 32.12 Mbit/s)
- Flow 2 egress (mean 31.65 Mbit/s)
- Flow 3 ingress (mean 23.68 Mbit/s)
- Flow 3 egress (mean 23.45 Mbit/s)

![Graph of per-packet one-way delay vs. time for different flows, with annotations for 95th percentile delay.]

- Flow 1 (95th percentile 107.21 ms)
- Flow 2 (95th percentile 110.39 ms)
- Flow 3 (95th percentile 112.50 ms)
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 04:57:53
End at: 2018-06-06 04:58:23
Local clock offset: -3.738 ms
Remote clock offset: 4.342 ms

# Below is generated by plot.py at 2018-06-06 06:30:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.17 Mbit/s
  95th percentile per-packet one-way delay: 113.204 ms
  Loss rate: 4.29%
-- Flow 1:
  Average throughput: 50.99 Mbit/s
  95th percentile per-packet one-way delay: 108.386 ms
  Loss rate: 3.86%
-- Flow 2:
  Average throughput: 32.53 Mbit/s
  95th percentile per-packet one-way delay: 115.279 ms
  Loss rate: 5.85%
-- Flow 3:
  Average throughput: 23.27 Mbit/s
  95th percentile per-packet one-way delay: 116.962 ms
  Loss rate: 2.61%
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 05:18:10
End at: 2018-06-06 05:18:40
Local clock offset: -6.486 ms
Remote clock offset: 8.484 ms

# Below is generated by plot.py at 2018-06-06 06:30:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.67 Mbit/s
95th percentile per-packet one-way delay: 115.000 ms
Loss rate: 5.85%
-- Flow 1:
Average throughput: 52.09 Mbit/s
95th percentile per-packet one-way delay: 111.291 ms
Loss rate: 6.52%
-- Flow 2:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 117.014 ms
Loss rate: 5.38%
-- Flow 3:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 117.961 ms
Loss rate: 2.54%
Run 8: Report of PCC-Vivace — Data Link

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

![Graph 2: Per-packet one-way delay (ms) vs Time (s)]
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 05:38:12
End at: 2018-06-06 05:38:42
Local clock offset: -5.565 ms
Remote clock offset: 13.46 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 113.067 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 110.696 ms
Loss rate: 3.63%
-- Flow 2:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 113.832 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 115.361 ms
Loss rate: 2.67%
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 05:58:12
End at: 2018-06-06 05:58:42
Local clock offset: -3.091 ms
Remote clock offset: 7.3 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.69 Mbit/s
95th percentile per-packet one-way delay: 111.486 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 46.63 Mbit/s
95th percentile per-packet one-way delay: 105.310 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 32.21 Mbit/s
95th percentile per-packet one-way delay: 112.164 ms
Loss rate: 5.15%
-- Flow 3:
Average throughput: 23.59 Mbit/s
95th percentile per-packet one-way delay: 113.631 ms
Loss rate: 2.55%
Run 10: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 03:05:43
End at: 2018-06-06 03:06:13
Local clock offset: -0.836 ms
Remote clock offset: 8.772 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 82.174 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 82.129 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 82.298 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 81.052 ms
Loss rate: 1.81%
Run 1: Report of WebRTC media — Data Link

---

**Throughput (Mbps) over Time (s)**

- **Flow 1 ingress** (mean 1.73 Mbps)
- **Flow 1 egress** (mean 1.74 Mbps)
- **Flow 2 ingress** (mean 0.99 Mbps)
- **Flow 2 egress** (mean 0.99 Mbps)
- **Flow 3 ingress** (mean 0.39 Mbps)
- **Flow 3 egress** (mean 0.38 Mbps)

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

- **Flow 1 (95th percentile 82.13 ms)**
- **Flow 2 (95th percentile 82.30 ms)**
- **Flow 3 (95th percentile 81.05 ms)**
Run 2: Statistics of WebRTC media

Start at: 2018-06-06 03:25:40
End at: 2018-06-06 03:26:10
Local clock offset: -0.92 ms
Remote clock offset: 7.24 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.09 Mbit/s
  95th percentile per-packet one-way delay: 81.640 ms
  Loss rate: 0.70%
-- Flow 1:
  Average throughput: 1.75 Mbit/s
  95th percentile per-packet one-way delay: 81.565 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 0.96 Mbit/s
  95th percentile per-packet one-way delay: 81.713 ms
  Loss rate: 0.72%
-- Flow 3:
  Average throughput: 0.40 Mbit/s
  95th percentile per-packet one-way delay: 81.344 ms
  Loss rate: 1.73%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2018-06-06 03:45:39
End at: 2018-06-06 03:46:09
Local clock offset: -0.937 ms
Remote clock offset: 4.323 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 85.708 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 85.739 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 85.658 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 85.673 ms
Loss rate: 1.86%
Run 3: Report of WebRTC media — Data Link

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

Start at: 2018-06-06 04:05:38
End at: 2018-06-06 04:06:08
Local clock offset: -1.657 ms
Remote clock offset: 7.729 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.01 Mbit/s
  95th percentile per-packet one-way delay: 85.460 ms
  Loss rate: 0.86%
-- Flow 1:
  Average throughput: 1.73 Mbit/s
  95th percentile per-packet one-way delay: 84.730 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 0.99 Mbit/s
  95th percentile per-packet one-way delay: 85.655 ms
  Loss rate: 1.04%
-- Flow 3:
  Average throughput: 0.31 Mbit/s
  95th percentile per-packet one-way delay: 85.824 ms
  Loss rate: 3.21%
Run 4: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 1.73 Mbps)
- Flow 1 egress (mean 1.73 Mbps)
- Flow 2 ingress (mean 1.00 Mbps)
- Flow 2 egress (mean 0.99 Mbps)
- Flow 3 ingress (mean 0.31 Mbps)
- Flow 3 egress (mean 0.31 Mbps)

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

- Flow 1 (95th percentile 84.73 ms)
- Flow 2 (95th percentile 85.66 ms)
- Flow 3 (95th percentile 85.82 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-06-06 04:25:37
End at: 2018-06-06 04:26:07
Local clock offset: -1.019 ms
Remote clock offset: 12.638 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 85.935 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 85.504 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 86.108 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 85.864 ms
Loss rate: 1.78%
Run 5: Report of WebRTC media — Data Link

![Graph of WebRTC media data link]

The graphs above show the throughput and per-packet one-way delay for three flows. The throughput plots illustrate the mean ingress and egress speeds for each flow, while the delay plots display the 95th percentile one-way delays. The data indicates variations in performance across different time intervals, reflecting the dynamic nature of network conditions.
Run 6: Statistics of WebRTC media

Start at: 2018-06-06 04:45:36
End at: 2018-06-06 04:46:06
Local clock offset: -3.178 ms
Remote clock offset: 10.171 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.07 Mbit/s
  95th percentile per-packet one-way delay: 81.195 ms
  Loss rate: 0.71%
-- Flow 1:
  Average throughput: 1.72 Mbit/s
  95th percentile per-packet one-way delay: 81.447 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 0.98 Mbit/s
  95th percentile per-packet one-way delay: 81.040 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 0.39 Mbit/s
  95th percentile per-packet one-way delay: 80.678 ms
  Loss rate: 1.82%
Run 6: Report of WebRTC media — Data Link

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

**Throughput (Mbps)**

- Flow 1 ingress (mean 1.72 Mbps)
- Flow 1 egress (mean 1.72 Mbps)
- Flow 2 ingress (mean 0.98 Mbps)
- Flow 2 egress (mean 0.98 Mbps)
- Flow 3 ingress (mean 0.39 Mbps)
- Flow 3 egress (mean 0.39 Mbps)

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

- Flow 1 (95th percentile 81.45 ms)
- Flow 2 (95th percentile 81.04 ms)
- Flow 3 (95th percentile 80.66 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-06-06 05:05:35
End at: 2018-06-06 05:06:05
Local clock offset: -3.751 ms
Remote clock offset: 7.413 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.09 Mbit/s
  95th percentile per-packet one-way delay: 82.576 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 1.75 Mbit/s
  95th percentile per-packet one-way delay: 81.929 ms
  Loss rate: 0.24%
-- Flow 2:
  Average throughput: 0.95 Mbit/s
  95th percentile per-packet one-way delay: 83.058 ms
  Loss rate: 0.81%
-- Flow 3:
  Average throughput: 0.39 Mbit/s
  95th percentile per-packet one-way delay: 82.981 ms
  Loss rate: 1.78%
Run 7: Report of WebRTC media — Data Link

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**Throughput (Mbps)**

- Flow 1 ingress (mean 1.75 Mbit/s)
- Flow 1 egress (mean 1.75 Mbit/s)
- Flow 2 ingress (mean 0.95 Mbit/s)
- Flow 2 egress (mean 0.95 Mbit/s)
- Flow 3 ingress (mean 0.40 Mbit/s)
- Flow 3 egress (mean 0.39 Mbit/s)

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

- Flow 1 (95th percentile 81.93 ms)
- Flow 2 (95th percentile 83.06 ms)
- Flow 3 (95th percentile 82.98 ms)

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Run 8: Statistics of WebRTC media

Start at: 2018-06-06 05:25:51
End at: 2018-06-06 05:26:21
Local clock offset: -7.35 ms
Remote clock offset: 8.688 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.08 Mbit/s
  95th percentile per-packet one-way delay: 87.113 ms
  Loss rate: 0.72%
-- Flow 1:
  Average throughput: 1.73 Mbit/s
  95th percentile per-packet one-way delay: 87.053 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 0.98 Mbit/s
  95th percentile per-packet one-way delay: 87.030 ms
  Loss rate: 1.03%
-- Flow 3:
  Average throughput: 0.39 Mbit/s
  95th percentile per-packet one-way delay: 87.479 ms
  Loss rate: 1.10%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

Start at: 2018-06-06 05:45:54
End at: 2018-06-06 05:46:24
Local clock offset: -3.79 ms
Remote clock offset: 10.726 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.02 Mbit/s
  95th percentile per-packet one-way delay: 82.125 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 1.71 Mbit/s
  95th percentile per-packet one-way delay: 81.932 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 0.98 Mbit/s
  95th percentile per-packet one-way delay: 82.233 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 0.35 Mbit/s
  95th percentile per-packet one-way delay: 82.437 ms
  Loss rate: 1.86%
Run 9: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.71 Mbit/s)  Flow 1 egress (mean 1.71 Mbit/s)
Flow 2 ingress (mean 0.98 Mbit/s)  Flow 2 egress (mean 0.96 Mbit/s)
Flow 3 ingress (mean 0.36 Mbit/s)  Flow 3 egress (mean 0.35 Mbit/s)

Per packet round trip delay (ms)

Time (s)

Flow 1 (95th percentile 81.93 ms)  Flow 2 (95th percentile 82.23 ms)  Flow 3 (95th percentile 82.44 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-06-06 06:05:53
End at: 2018-06-06 06:06:23
Local clock offset: -2.486 ms
Remote clock offset: 6.42 ms

# Below is generated by plot.py at 2018-06-06 06:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 81.699 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 81.469 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 81.698 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 82.291 ms
Loss rate: 1.77%
Run 10: Report of WebRTC media — Data Link

The first graph illustrates the throughput (Mbps) over time (s) for five different flows:
- Flow 1 ingress (mean 1.74 Mbps)
- Flow 1 egress (mean 1.75 Mbps)
- Flow 2 ingress (mean 0.98 Mbps)
- Flow 2 egress (mean 0.96 Mbps)
- Flow 3 ingress (mean 0.39 Mbps)
- Flow 3 egress (mean 0.39 Mbps)

The second graph shows the per-packet one-way delay (ms) for the same flows.

The graphs display the performance metrics over a 35-second period.