Pantheon Report

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

Git summary:
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eeab4a906ce6bb7cf3c
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc955fa0d66d18b623c091a55feca872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f6613e8ac08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a8273a86b42f1bca8143ec978f3c8f42
third_party/scream-reproduce @ f099118d1421a3131bf11ff1964974e1da3b8b2
third_party/sprout @ c838669682f0c19f6ba9f2a9c9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2b29562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
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<th>mean avg tput (Mbit/s)</th>
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<th>mean loss rate (%)</th>
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<td>PCC-Expr</td>
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<td>203.92</td>
<td>183.68</td>
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<td>QUIC Cubic</td>
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<td>57.87</td>
<td>33.66</td>
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<td>Sprout</td>
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<td>139.22</td>
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<td>Verus</td>
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<td>PCC-Vivace</td>
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<td>WebRTC media</td>
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<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

End at: 2018-05-26 14:21:34
Local clock offset: 0.263 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-05-26 18:34:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.47 Mbit/s
95th percentile per-packet one-way delay: 79.661 ms
Loss rate: 0.59%

-- Flow 1:
Average throughput: 209.05 Mbit/s
95th percentile per-packet one-way delay: 78.144 ms
Loss rate: 0.39%

-- Flow 2:
Average throughput: 195.27 Mbit/s
95th percentile per-packet one-way delay: 80.254 ms
Loss rate: 0.63%

-- Flow 3:
Average throughput: 171.55 Mbit/s
95th percentile per-packet one-way delay: 81.617 ms
Loss rate: 1.28%
Run 1: Report of TCP BBR — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 209.16 Mbps)
- Flow 1 egress (mean 209.05 Mbps)
- Flow 2 ingress (mean 195.50 Mbps)
- Flow 2 egress (mean 195.27 Mbps)
- Flow 3 ingress (mean 171.92 Mbps)
- Flow 3 egress (mean 171.55 Mbps)

**Packet one-way delay (ms)**
- Flow 1 (95th percentile 78.14 ms)
- Flow 2 (95th percentile 80.25 ms)
- Flow 3 (95th percentile 81.62 ms)
Run 2: Statistics of TCP BBR

Start at: 2018-05-26 14:44:08
End at: 2018-05-26 14:44:38
Local clock offset: -0.048 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2018-05-26 18:34:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.25 Mbit/s
95th percentile per-packet one-way delay: 68.323 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 209.93 Mbit/s
95th percentile per-packet one-way delay: 66.898 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 207.01 Mbit/s
95th percentile per-packet one-way delay: 68.441 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 189.63 Mbit/s
95th percentile per-packet one-way delay: 71.433 ms
Loss rate: 1.19%
Run 2: Report of TCP BBR — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 210.02 Mbps)
  - Flow 1 egress (mean 209.93 Mbps)
  - Flow 2 ingress (mean 207.13 Mbps)
  - Flow 2 egress (mean 207.01 Mbps)
  - Flow 3 ingress (mean 189.99 Mbps)
  - Flow 3 egress (mean 189.63 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 66.90 ms)
  - Flow 2 (95th percentile 68.44 ms)
  - Flow 3 (95th percentile 71.43 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-05-26 15:07:14
End at: 2018-05-26 15:07:44
Local clock offset: 0.172 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-05-26 18:34:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 391.12 Mbit/s
  95th percentile per-packet one-way delay: 80.544 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 200.39 Mbit/s
  95th percentile per-packet one-way delay: 78.696 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 198.16 Mbit/s
  95th percentile per-packet one-way delay: 80.594 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 178.71 Mbit/s
  95th percentile per-packet one-way delay: 83.334 ms
  Loss rate: 1.37%
Run 3: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 200.42 Mbit/s) - Flow 1 egress (mean 200.39 Mbit/s)
- Flow 2 ingress (mean 198.21 Mbit/s) - Flow 2 egress (mean 198.16 Mbit/s)
- Flow 3 ingress (mean 179.33 Mbit/s) - Flow 3 egress (mean 178.71 Mbit/s)

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

- Flow 1 (95th percentile 78.70 ms) - Flow 2 (95th percentile 80.59 ms) - Flow 3 (95th percentile 83.33 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-05-26 15:30:25
End at: 2018-05-26 15:30:55
Local clock offset: -0.032 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-05-26 18:34:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.52 Mbit/s
95th percentile per-packet one-way delay: 80.474 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 212.90 Mbit/s
95th percentile per-packet one-way delay: 80.282 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 202.69 Mbit/s
95th percentile per-packet one-way delay: 81.051 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 175.00 Mbit/s
95th percentile per-packet one-way delay: 77.927 ms
Loss rate: 1.29%
Run 5: Statistics of TCP BBR

Start at: 2018-05-26 15:54:09
End at: 2018-05-26 15:54:39
Local clock offset: -0.106 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-05-26 18:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 412.27 Mbit/s
95th percentile per-packet one-way delay: 74.626 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 215.43 Mbit/s
95th percentile per-packet one-way delay: 71.676 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 202.52 Mbit/s
95th percentile per-packet one-way delay: 74.890 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 188.53 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 1.13%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-05-26 16:17:08
End at: 2018-05-26 16:17:38
Local clock offset: -0.23 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-05-26 18:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.86 Mbit/s
95th percentile per-packet one-way delay: 74.397 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 212.21 Mbit/s
95th percentile per-packet one-way delay: 73.244 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 202.30 Mbit/s
95th percentile per-packet one-way delay: 74.286 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 197.18 Mbit/s
95th percentile per-packet one-way delay: 76.415 ms
Loss rate: 1.17%
Run 6: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 212.26 Mbps)
- Flow 1 egress (mean 212.21 Mbps)
- Flow 2 ingress (mean 202.44 Mbps)
- Flow 2 egress (mean 202.30 Mbps)
- Flow 3 ingress (mean 197.42 Mbps)
- Flow 3 egress (mean 197.18 Mbps)

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

- Flow 1 (95th percentile 73.24 ms)
- Flow 2 (95th percentile 74.29 ms)
- Flow 3 (95th percentile 76.42 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-05-26 16:40:18
End at: 2018-05-26 16:40:48
Local clock offset: 0.192 ms
Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-05-26 18:34:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 403.33 Mbit/s
95th percentile per-packet one-way delay: 72.780 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 206.68 Mbit/s
95th percentile per-packet one-way delay: 71.785 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 201.17 Mbit/s
95th percentile per-packet one-way delay: 73.142 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 190.72 Mbit/s
95th percentile per-packet one-way delay: 73.788 ms
Loss rate: 1.20%
Run 7: Report of TCP BBR — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 206.80 Mbps)
  - Flow 1 egress (mean 206.68 Mbps)
  - Flow 2 ingress (mean 201.23 Mbps)
  - Flow 2 egress (mean 201.17 Mbps)
  - Flow 3 ingress (mean 190.95 Mbps)
  - Flow 3 egress (mean 190.72 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 71.78 ms)
  - Flow 2 (95th percentile 73.14 ms)
  - Flow 3 (95th percentile 73.79 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-05-26 17:02:54
End at: 2018-05-26 17:03:24
Local clock offset: 0.184 ms
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2018-05-26 18:34:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 424.03 Mbit/s
  95th percentile per-packet one-way delay: 63.132 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 218.05 Mbit/s
  95th percentile per-packet one-way delay: 61.588 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 211.36 Mbit/s
  95th percentile per-packet one-way delay: 63.347 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 198.30 Mbit/s
  95th percentile per-packet one-way delay: 65.415 ms
  Loss rate: 1.19%
Run 9: Statistics of TCP BBR

Start at: 2018-05-26 17:26:11
End at: 2018-05-26 17:26:41
Local clock offset: -0.398 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 433.64 Mbit/s
  95th percentile per-packet one-way delay: 60.576 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 220.78 Mbit/s
  95th percentile per-packet one-way delay: 58.947 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 216.96 Mbit/s
  95th percentile per-packet one-way delay: 61.087 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 207.83 Mbit/s
  95th percentile per-packet one-way delay: 62.673 ms
  Loss rate: 1.18%
Run 9: Report of TCP BBR — Data Link

![Diagram 1: Throughput over Time](image)
- Flow 1 ingress (mean 220.81 Mbit/s)
- Flow 1 egress (mean 220.78 Mbit/s)
- Flow 2 ingress (mean 217.02 Mbit/s)
- Flow 2 egress (mean 216.96 Mbit/s)
- Flow 3 ingress (mean 208.09 Mbit/s)
- Flow 3 egress (mean 207.83 Mbit/s)

![Diagram 2: Per-packet one way delay](image)
- Flow 1 (95th percentile 58.95 ms)
- Flow 2 (95th percentile 61.09 ms)
- Flow 3 (95th percentile 62.67 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-05-26 17:49:51
End at: 2018-05-26 17:50:21
Local clock offset: 0.189 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.18 Mbit/s
95th percentile per-packet one-way delay: 66.506 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 216.12 Mbit/s
95th percentile per-packet one-way delay: 65.507 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 205.65 Mbit/s
95th percentile per-packet one-way delay: 67.016 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 207.04 Mbit/s
95th percentile per-packet one-way delay: 67.477 ms
Loss rate: 1.14%
Run 10: Report of TCP BBR — Data Link

![Graph showing network throughput and packet loss over time for different network flows.](image-url)
Run 1: Statistics of Copa

Start at: 2018-05-26 14:36:50
End at: 2018-05-26 14:37:20
Local clock offset: 0.183 ms
Remote clock offset: 0.114 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 186.57 Mbit/s
95th percentile per-packet one-way delay: 61.920 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.18 Mbit/s
95th percentile per-packet one-way delay: 53.755 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 54.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 153.98 Mbit/s
95th percentile per-packet one-way delay: 110.816 ms
Loss rate: 1.27%
Run 1: Report of Copa — Data Link

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

- Flow 1 ingress (mean 93.44 Mbit/s)
- Flow 1 egress (mean 93.18 Mbit/s)
- Flow 2 ingress (mean 67.47 Mbit/s)
- Flow 2 egress (mean 67.46 Mbit/s)
- Flow 3 ingress (mean 154.40 Mbit/s)
- Flow 3 egress (mean 153.98 Mbit/s)

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

- Flow 1 (95th percentile 53.76 ms)
- Flow 2 (95th percentile 54.13 ms)
- Flow 3 (95th percentile 110.82 ms)
Run 2: Statistics of Copa

Start at: 2018-05-26 15:00:02
End at: 2018-05-26 15:00:32
Local clock offset: -0.031 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.32 Mbit/s
95th percentile per-packet one-way delay: 57.714 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 59.602 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 142.99 Mbit/s
95th percentile per-packet one-way delay: 58.867 ms
Loss rate: 1.48%
Run 2: Report of Copa — Data Link

![Graph showing throughput and per-packet round-trip delays for Flow 1, Flow 2, and Flow 3.]

- Flow 1 ingress (mean 96.33 Mbit/s)
- Flow 1 egress (mean 96.24 Mbit/s)
- Flow 2 ingress (mean 55.28 Mbit/s)
- Flow 2 egress (mean 55.18 Mbit/s)
- Flow 3 ingress (mean 143.66 Mbit/s)
- Flow 3 egress (mean 142.99 Mbit/s)

![Graph showing per-packet round-trip delays for Flow 1, Flow 2, and Flow 3.]

- Flow 1 (95th percentile 59.60 ms)
- Flow 2 (95th percentile 53.65 ms)
- Flow 3 (95th percentile 58.87 ms)
Run 3: Statistics of Copa

End at: 2018-05-26 15:23:44
Local clock offset: 0.157 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.09 Mbit/s
95th percentile per-packet one-way delay: 61.423 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 55.12 Mbit/s
95th percentile per-packet one-way delay: 54.441 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 210.41 Mbit/s
95th percentile per-packet one-way delay: 63.461 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 1.02%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-05-26 15:46:51
End at: 2018-05-26 15:47:21
Local clock offset: 0.244 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 212.43 Mbit/s
  95th percentile per-packet one-way delay: 55.611 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 127.45 Mbit/s
  95th percentile per-packet one-way delay: 54.359 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 101.36 Mbit/s
  95th percentile per-packet one-way delay: 57.977 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 53.58 Mbit/s
  95th percentile per-packet one-way delay: 54.043 ms
  Loss rate: 1.00%
Run 4: Report of Copa — Data Link

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

**Legend:**
- Light blue dashed line: Flow 1 ingress (mean 127.04 Mbit/s)
- Dark blue solid line: Flow 1 egress (mean 127.45 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 101.75 Mbit/s)
- Dark green solid line: Flow 2 egress (mean 101.36 Mbit/s)
- Light green dashed line: Flow 3 ingress (mean 53.31 Mbit/s)
- Dark green solid line: Flow 3 egress (mean 53.58 Mbit/s)

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

**Legend:**
- Blue circle: Flow 1 (95th percentile 54.36 ms)
- Green circle: Flow 2 (95th percentile 57.98 ms)
- Red circle: Flow 3 (95th percentile 54.04 ms)
Run 5: Statistics of Copa

Start at: 2018-05-26 16:10:10
End at: 2018-05-26 16:10:40
Local clock offset: -0.024 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-05-26 18:42:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 191.10 Mbit/s
  95th percentile per-packet one-way delay: 57.550 ms
  Loss rate: 0.31%
-- Flow 1:
  Average throughput: 138.07 Mbit/s
  95th percentile per-packet one-way delay: 59.819 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 53.61 Mbit/s
  95th percentile per-packet one-way delay: 53.806 ms
  Loss rate: 0.39%
-- Flow 3:
  Average throughput: 53.80 Mbit/s
  95th percentile per-packet one-way delay: 54.328 ms
  Loss rate: 1.68%
Run 5: Report of Copa — Data Link

![Graph showing network traffic and delay over time]

- Flow 1 ingress (mean 137.49 Mbit/s)
- Flow 1 egress (mean 138.07 Mbit/s)
- Flow 2 ingress (mean 53.52 Mbit/s)
- Flow 2 egress (mean 53.61 Mbit/s)
- Flow 3 ingress (mean 54.13 Mbit/s)
- Flow 3 egress (mean 53.80 Mbit/s)

- Flow 1 (95th percentile 59.82 ms)
- Flow 2 (95th percentile 53.81 ms)
- Flow 3 (95th percentile 54.33 ms)
Run 6: Statistics of Copa

Start at: 2018-05-26 16:33:09
End at: 2018-05-26 16:33:39
Local clock offset: 0.098 ms
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2018-05-26 18:43:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 265.84 Mbit/s
  95th percentile per-packet one-way delay: 61.580 ms
  Loss rate: 0.46%

-- Flow 1:
  Average throughput: 144.13 Mbit/s
  95th percentile per-packet one-way delay: 63.470 ms
  Loss rate: 0.10%

-- Flow 2:
  Average throughput: 114.13 Mbit/s
  95th percentile per-packet one-way delay: 58.846 ms
  Loss rate: 0.29%

-- Flow 3:
  Average throughput: 138.74 Mbit/s
  95th percentile per-packet one-way delay: 54.071 ms
  Loss rate: 1.83%
Run 6: Report of Copa — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows. The graphs display multiple lines representing various flows with their respective means and 95th percentiles.]
Run 7: Statistics of Copa

End at: 2018-05-26 16:56:29
Local clock offset: -0.072 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-05-26 18:46:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 57.640 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 54.075 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 186.36 Mbit/s
95th percentile per-packet one-way delay: 57.773 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 66.848 ms
Loss rate: 0.14%
Run 7: Report of Copa — Data Link

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

- Flow 1 ingress (mean 48.67 Mbit/s)
- Flow 1 egress (mean 48.72 Mbit/s)
- Flow 2 ingress (mean 185.90 Mbit/s)
- Flow 2 egress (mean 186.36 Mbit/s)
- Flow 3 ingress (mean 91.73 Mbit/s)
- Flow 3 egress (mean 92.54 Mbit/s)
Run 8: Statistics of Copa

Start at: 2018-05-26 17:18:50
End at: 2018-05-26 17:19:20
Local clock offset: 0.066 ms
Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2018-05-26 18:51:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.96 Mbit/s
95th percentile per-packet one-way delay: 62.358 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 204.66 Mbit/s
95th percentile per-packet one-way delay: 64.671 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 110.05 Mbit/s
95th percentile per-packet one-way delay: 54.375 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 118.45 Mbit/s
95th percentile per-packet one-way delay: 56.928 ms
Loss rate: 1.22%
Run 8: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 204.49 Mbit/s)**
- **Flow 1 egress (mean 204.66 Mbit/s)**
- **Flow 2 ingress (mean 110.68 Mbit/s)**
- **Flow 2 egress (mean 110.05 Mbit/s)**
- **Flow 3 ingress (mean 118.69 Mbit/s)**
- **Flow 3 egress (mean 118.45 Mbit/s)**

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

- **Flow 1 (95th percentile 64.67 ms)**
- **Flow 2 (95th percentile 54.38 ms)**
- **Flow 3 (95th percentile 56.93 ms)**
Run 9: Statistics of Copa

Start at: 2018-05-26 17:42:25
End at: 2018-05-26 17:42:55
Local clock offset: 0.163 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-05-26 18:51:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 313.24 Mbit/s
  95th percentile per-packet one-way delay: 62.118 ms
  Loss rate: 0.46%
  -- Flow 1:
    Average throughput: 203.42 Mbit/s
    95th percentile per-packet one-way delay: 61.513 ms
    Loss rate: 0.35%
  -- Flow 2:
    Average throughput: 118.29 Mbit/s
    95th percentile per-packet one-way delay: 63.395 ms
    Loss rate: 0.74%
  -- Flow 3:
    Average throughput: 94.39 Mbit/s
    95th percentile per-packet one-way delay: 66.128 ms
    Loss rate: 0.50%
Run 9: Report of Copa — Data Link

![Graph showing throughput and packet delay over time]

- Flow 1 ingress (mean 203.45 Mbit/s)
- Flow 1 egress (mean 203.42 Mbit/s)
- Flow 2 ingress (mean 118.57 Mbit/s)
- Flow 2 egress (mean 118.29 Mbit/s)
- Flow 3 ingress (mean 93.90 Mbit/s)
- Flow 3 egress (mean 94.39 Mbit/s)
Run 10: Statistics of Copa

Start at: 2018-05-26 18:05:52
End at: 2018-05-26 18:06:22
Local clock offset: 0.36 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-05-26 18:51:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 282.72 Mbit/s
  95th percentile per-packet one-way delay: 58.836 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 180.33 Mbit/s
  95th percentile per-packet one-way delay: 55.222 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 44.99 Mbit/s
  95th percentile per-packet one-way delay: 54.168 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 219.52 Mbit/s
  95th percentile per-packet one-way delay: 64.562 ms
  Loss rate: 1.18%
Run 10: Report of Copa — Data Link

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

- Flow 1 ingress (mean 180.31 Mbit/s)
- Flow 1 egress (mean 180.33 Mbit/s)
- Flow 2 ingress (mean 45.00 Mbit/s)
- Flow 2 egress (mean 44.99 Mbit/s)
- Flow 3 ingress (mean 219.88 Mbit/s)
- Flow 3 egress (mean 219.52 Mbit/s)

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

- Flow 1 (95th percentile 55.22 ms)
- Flow 2 (95th percentile 54.17 ms)
- Flow 3 (95th percentile 64.56 ms)
Run 1: Statistics of TCP Cubic

Start at: 2018-05-26 14:30:23
End at: 2018-05-26 14:30:53
Local clock offset: 0.207 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-26 18:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.55 Mbit/s
95th percentile per-packet one-way delay: 68.960 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 226.12 Mbit/s
95th percentile per-packet one-way delay: 68.364 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 70.372 ms
Loss rate: 2.39%
-- Flow 3:
Average throughput: 204.75 Mbit/s
95th percentile per-packet one-way delay: 69.137 ms
Loss rate: 1.21%
Run 1: Report of TCP Cubic — Data Link

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

Flow 1 ingress (mean 226.21 Mbit/s)  Flow 1 egress (mean 226.12 Mbit/s)
Flow 2 ingress (mean 49.34 Mbit/s)  Flow 2 egress (mean 48.40 Mbit/s)
Flow 3 ingress (mean 205.16 Mbit/s)  Flow 3 egress (mean 204.75 Mbit/s)
Run 2: Statistics of TCP Cubic

End at: 2018-05-26 14:53:54
Local clock offset: -0.175 ms
Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-05-26 18:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.16 Mbit/s
95th percentile per-packet one-way delay: 61.371 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 222.34 Mbit/s
95th percentile per-packet one-way delay: 61.421 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 50.68 Mbit/s
95th percentile per-packet one-way delay: 61.181 ms
Loss rate: 2.25%
-- Flow 3:
Average throughput: 191.11 Mbit/s
95th percentile per-packet one-way delay: 61.316 ms
Loss rate: 0.65%
Run 2: Report of TCP Cubic — Data Link

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**Throughput (Mbps)**

![Throughput Graph]

- **Flow 1 ingress (mean 222.21 Mbps)**
- **Flow 1 egress (mean 222.34 Mbps)**
- **Flow 2 ingress (mean 51.57 Mbps)**
- **Flow 2 egress (mean 50.66 Mbps)**
- **Flow 3 ingress (mean 190.34 Mbps)**
- **Flow 3 egress (mean 191.11 Mbps)**

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

![Per-packet Delay Graph]

- **Flow 1 (95th percentile 61.42 ms)**
- **Flow 2 (95th percentile 61.18 ms)**
- **Flow 3 (95th percentile 61.32 ms)**

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Run 3: Statistics of TCP Cubic

End at: 2018-05-26 15:17:02
Local clock offset: -0.314 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-26 18:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.06 Mbit/s
95th percentile per-packet one-way delay: 78.967 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 155.67 Mbit/s
95th percentile per-packet one-way delay: 77.369 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 208.74 Mbit/s
95th percentile per-packet one-way delay: 80.374 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 184.24 Mbit/s
95th percentile per-packet one-way delay: 79.007 ms
Loss rate: 1.34%
Run 3: Report of TCP Cubic — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 136.03 Mbps)
- Flow 1 egress (mean 155.67 Mbps)
- Flow 2 ingress (mean 209.58 Mbps)
- Flow 2 egress (mean 208.74 Mbps)
- Flow 3 ingress (mean 184.84 Mbps)
- Flow 3 egress (mean 184.24 Mbps)

**Per-packet one way delay (ms):**
- Flow 1 (95th percentile 77.37 ms)
- Flow 2 (95th percentile 80.37 ms)
- Flow 3 (95th percentile 79.01 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-05-26 15:40:17
End at: 2018-05-26 15:40:47
Local clock offset: -0.116 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-05-26 18:51:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 289.25 Mbit/s
95th percentile per-packet one-way delay: 57.024 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 167.54 Mbit/s
95th percentile per-packet one-way delay: 56.979 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 120.81 Mbit/s
95th percentile per-packet one-way delay: 56.548 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 125.73 Mbit/s
95th percentile per-packet one-way delay: 57.638 ms
Loss rate: 1.16%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-05-26 16:03:37
End at: 2018-05-26 16:04:07
Local clock offset: -0.448 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-05-26 18:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.98 Mbit/s
95th percentile per-packet one-way delay: 61.802 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 227.46 Mbit/s
95th percentile per-packet one-way delay: 62.528 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 135.38 Mbit/s
95th percentile per-packet one-way delay: 59.242 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 207.65 Mbit/s
95th percentile per-packet one-way delay: 61.884 ms
Loss rate: 1.13%
Run 5: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows, with legends indicating mean throughput and 95th percentile delay for each flow.]
Run 6: Statistics of TCP Cubic

Start at: 2018-05-26 16:26:38
End at: 2018-05-26 16:27:08
Local clock offset: -0.019 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2018-05-26 18:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.81 Mbit/s
95th percentile per-packet one-way delay: 57.635 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 144.17 Mbit/s
95th percentile per-packet one-way delay: 56.617 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 58.543 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 211.42 Mbit/s
95th percentile per-packet one-way delay: 59.343 ms
Loss rate: 1.17%
Run 6: Report of TCP Cubic — Data Link

- Flow 1 ingress (mean 144.16 Mbps)  
- Flow 1 egress (mean 144.17 Mbps)  
- Flow 2 ingress (mean 52.08 Mbps)  
- Flow 2 egress (mean 51.12 Mbps)  
- Flow 3 ingress (mean 211.68 Mbps)  
- Flow 3 egress (mean 211.42 Mbps)

- Flow 1 (95th percentile 56.62 ms)  
- Flow 2 (95th percentile 58.54 ms)  
- Flow 3 (95th percentile 59.34 ms)
Run 7: Statistics of TCP Cubic

End at: 2018-05-26 16:49:58
Local clock offset: 0.019 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2018-05-26 18:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.67 Mbit/s
95th percentile per-packet one-way delay: 59.045 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 162.74 Mbit/s
95th percentile per-packet one-way delay: 60.161 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 221.71 Mbit/s
95th percentile per-packet one-way delay: 57.847 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 57.698 ms
Loss rate: 4.04%
Run 7: Report of TCP Cubic — Data Link
Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 17:12:24
End at: 2018-05-26 17:12:54
Local clock offset: 0.041 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-05-26 18:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.44 Mbit/s
95th percentile per-packet one-way delay: 57.284 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 57.041 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 53.15 Mbit/s
95th percentile per-packet one-way delay: 57.831 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 56.058 ms
Loss rate: 3.87%
Run 8: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 168.75 Mbit/s)
- Flow 1 egress (mean 168.48 Mbit/s)
- Flow 2 ingress (mean 53.92 Mbit/s)
- Flow 2 egress (mean 53.15 Mbit/s)
- Flow 3 ingress (mean 5.35 Mbit/s)
- Flow 3 egress (mean 5.20 Mbit/s)

Legend for delay:
- Flow 1 (95th percentile 57.04 ms)
- Flow 2 (95th percentile 57.83 ms)
- Flow 3 (95th percentile 56.06 ms)
Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 17:35:52  
End at: 2018-05-26 17:36:22  
Local clock offset: -0.115 ms  
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2018-05-26 18:55:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 340.36 Mbit/s  
95th percentile per-packet one-way delay: 65.593 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 193.39 Mbit/s  
95th percentile per-packet one-way delay: 64.425 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 119.93 Mbit/s  
95th percentile per-packet one-way delay: 66.202 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 204.06 Mbit/s  
95th percentile per-packet one-way delay: 66.741 ms  
Loss rate: 1.24%
Run 9: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 193.60 Mbps)
  - Flow 1 egress (mean 193.39 Mbps)
  - Flow 2 ingress (mean 120.20 Mbps)
  - Flow 2 egress (mean 119.93 Mbps)
  - Flow 3 ingress (mean 204.49 Mbps)
  - Flow 3 egress (mean 204.06 Mbps)

- **Per-packet one way delay (ms):**
  - Flow 1 (95th percentile 64.42 ms)
  - Flow 2 (95th percentile 66.20 ms)
  - Flow 3 (95th percentile 66.74 ms)
Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 17:59:18
End at: 2018-05-26 17:59:48
Local clock offset: 0.038 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-05-26 18:55:56
# Datalink statistics
   -- Total of 3 flows:
      Average throughput: 283.89 Mbit/s
      95th percentile per-packet one-way delay: 58.480 ms
      Loss rate: 0.57%
   -- Flow 1:
      Average throughput: 167.67 Mbit/s
      95th percentile per-packet one-way delay: 59.848 ms
      Loss rate: 0.47%
   -- Flow 2:
      Average throughput: 172.40 Mbit/s
      95th percentile per-packet one-way delay: 55.276 ms
      Loss rate: 0.66%
   -- Flow 3:
      Average throughput: 4.85 Mbit/s
      95th percentile per-packet one-way delay: 55.208 ms
      Loss rate: 4.19%
Run 10: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 167.89 Mbit/s)
- Flow 1 egress (mean 167.67 Mbit/s)
- Flow 2 ingress (mean 172.64 Mbit/s)
- Flow 2 egress (mean 172.40 Mbit/s)
- Flow 3 ingress (mean 5.01 Mbit/s)
- Flow 3 egress (mean 4.85 Mbit/s)

Flow 1 (95th percentile 59.85 ms)
Flow 2 (95th percentile 55.28 ms)
Flow 3 (95th percentile 55.21 ms)
Run 1: Statistics of FillP

Start at: 2018-05-26 14:34:48
End at: 2018-05-26 14:35:18
Local clock offset: 0.098 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2018-05-26 19:20:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1310.14 Mbit/s
  95th percentile per-packet one-way delay: 193.941 ms
  Loss rate: 5.47%
-- Flow 1:
  Average throughput: 706.36 Mbit/s
  95th percentile per-packet one-way delay: 213.083 ms
  Loss rate: 4.28%
-- Flow 2:
  Average throughput: 599.46 Mbit/s
  95th percentile per-packet one-way delay: 179.158 ms
  Loss rate: 7.80%
-- Flow 3:
  Average throughput: 623.86 Mbit/s
  95th percentile per-packet one-way delay: 133.487 ms
  Loss rate: 4.87%
Run 1: Report of FillP — Data Link

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Graph 1: Throughput (Mbps/s) vs Time (s)
- Blue dashed line: Flow 1 Ingress (mean 735.51 Mbps/s)
- Green dashed line: Flow 1 Egress (mean 706.36 Mbps/s)
- Blue solid line: Flow 2 Ingress (mean 646.74 Mbps/s)
- Green solid line: Flow 2 Egress (mean 599.46 Mbps/s)
- Red dashed line: Flow 3 Ingress (mean 649.08 Mbps/s)
- Red solid line: Flow 3 Egress (mean 623.86 Mbps/s)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Blue line: Flow 1 (95th percentile 213.08 ms)
- Green line: Flow 2 (95th percentile 179.16 ms)
- Red line: Flow 3 (95th percentile 133.49 ms)
Run 2: Statistics of FillP

End at: 2018-05-26 14:58:23
Local clock offset: 0.37 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2018-05-26 19:24:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1459.92 Mbit/s
95th percentile per-packet one-way delay: 158.889 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 766.65 Mbit/s
95th percentile per-packet one-way delay: 171.904 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 720.66 Mbit/s
95th percentile per-packet one-way delay: 125.088 ms
Loss rate: 2.85%
-- Flow 3:
Average throughput: 651.47 Mbit/s
95th percentile per-packet one-way delay: 127.760 ms
Loss rate: 2.55%
Run 2: Report of FillP — Data Link

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

- **Flow 1 Ingress (mean 788.03 Mb/s)**
- **Flow 1 Egress (mean 766.65 Mb/s)**
- **Flow 2 Ingress (mean 738.14 Mb/s)**
- **Flow 2 Egress (mean 720.66 Mb/s)**
- **Flow 3 Ingress (mean 661.68 Mb/s)**
- **Flow 3 Egress (mean 651.47 Mb/s)**
Run 3: Statistics of FillP

End at: 2018-05-26 15:21:34
Local clock offset: -0.003 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-05-26 19:25:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1486.94 Mbit/s
95th percentile per-packet one-way delay: 137.849 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 789.44 Mbit/s
95th percentile per-packet one-way delay: 139.271 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 726.50 Mbit/s
95th percentile per-packet one-way delay: 141.510 ms
Loss rate: 3.23%
-- Flow 3:
Average throughput: 654.28 Mbit/s
95th percentile per-packet one-way delay: 79.418 ms
Loss rate: 1.22%
Run 3: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 803.16 Mbit/s)
- Flow 1 Egress (mean 789.48 Mbit/s)
- Flow 2 Ingress (mean 746.67 Mbit/s)
- Flow 2 Egress (mean 736.50 Mbit/s)
- Flow 3 Ingress (mean 655.24 Mbit/s)
- Flow 3 Egress (mean 654.28 Mbit/s)

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

- Flow 1 (95th percentile 139.27 ms)
- Flow 2 (95th percentile 141.51 ms)
- Flow 3 (95th percentile 79.42 ms)
Run 4: Statistics of FillP

Start at: 2018-05-26 15:44:44
End at: 2018-05-26 15:45:14
Local clock offset: 0.06 ms
Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2018-05-26 19:25:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1428.90 Mbit/s
95th percentile per-packet one-way delay: 173.911 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 729.93 Mbit/s
95th percentile per-packet one-way delay: 197.233 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 731.23 Mbit/s
95th percentile per-packet one-way delay: 145.396 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 646.78 Mbit/s
95th percentile per-packet one-way delay: 126.767 ms
Loss rate: 2.51%
Run 4: Report of FillP — Data Link

![Graph showing network performance metrics over time.

- Throughput (Mbps):
  - Flow 1 ingress (mean 746.42 Mbps)
  - Flow 1 egress (mean 729.93 Mbps)
  - Flow 2 ingress (mean 747.10 Mbps)
  - Flow 2 egress (mean 731.23 Mbps)
  - Flow 3 ingress (mean 656.46 Mbps)
  - Flow 3 egress (mean 646.78 Mbps)

- Packet error rate (ms):
  - Flow 1 (95th percentile 197.23 ms)
  - Flow 2 (95th percentile 145.40 ms)
  - Flow 3 (95th percentile 126.77 ms)
Run 5: Statistics of FillP

Start at: 2018-05-26 16:08:02
End at: 2018-05-26 16:08:32
Local clock offset: -0.274 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-05-26 19:26:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1447.18 Mbit/s
95th percentile per-packet one-way delay: 133.826 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 756.16 Mbit/s
95th percentile per-packet one-way delay: 128.477 ms
Loss rate: 3.31%
-- Flow 2:
Average throughput: 701.12 Mbit/s
95th percentile per-packet one-way delay: 181.560 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 684.84 Mbit/s
95th percentile per-packet one-way delay: 119.142 ms
Loss rate: 2.01%
Run 5: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 779.28 Mbit/s) vs. Egress (mean 756.16 Mbit/s)
- Flow 2 Ingress (mean 718.24 Mbit/s) vs. Egress (mean 702.12 Mbit/s)
- Flow 3 Ingress (mean 691.68 Mbit/s) vs. Egress (mean 684.84 Mbit/s)
Run 6: Statistics of FillP

Start at: 2018-05-26 16:31:05
End at: 2018-05-26 16:31:35
Local clock offset: -0.162 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-05-26 19:26:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1372.99 Mbit/s
  95th percentile per-packet one-way delay: 194.470 ms
  Loss rate: 2.85%
-- Flow 1:
  Average throughput: 713.41 Mbit/s
  95th percentile per-packet one-way delay: 206.828 ms
  Loss rate: 2.43%
-- Flow 2:
  Average throughput: 678.42 Mbit/s
  95th percentile per-packet one-way delay: 133.924 ms
  Loss rate: 4.25%
-- Flow 3:
  Average throughput: 635.43 Mbit/s
  95th percentile per-packet one-way delay: 102.375 ms
  Loss rate: 1.22%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FILLP

Start at: 2018-05-26 16:53:51
End at: 2018-05-26 16:54:21
Local clock offset: 0.014 ms
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2018-05-26 19:28:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1435.20 Mbit/s
95th percentile per-packet one-way delay: 128.234 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 777.03 Mbit/s
95th percentile per-packet one-way delay: 121.557 ms
Loss rate: 2.92%
-- Flow 2:
Average throughput: 685.11 Mbit/s
95th percentile per-packet one-way delay: 135.173 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 617.53 Mbit/s
95th percentile per-packet one-way delay: 127.301 ms
Loss rate: 3.47%
Run 7: Report of FillP — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 Ingress (mean 797.72 Mbps/s)  Flow 1 Egress (mean 777.03 Mbps/s)
Flow 2 Ingress (mean 718.96 Mbps/s)  Flow 2 Egress (mean 685.11 Mbps/s)
Flow 3 Ingress (mean 633.02 Mbps/s)  Flow 3 Egress (mean 617.53 Mbps/s)

Packet error rate delay (ms)

Time (s)

Flow 1 (95th percentile 121.56 ms)  Flow 2 (95th percentile 135.17 ms)  Flow 3 (95th percentile 127.30 ms)
Run 8: Statistics of FillP

Start at: 2018-05-26 17:16:44
End at: 2018-05-26 17:17:14
Local clock offset: -0.145 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2018-05-26 19:28:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1342.00 Mbit/s
95th percentile per-packet one-way delay: 145.434 ms
Loss rate: 5.97%
-- Flow 1:
Average throughput: 718.13 Mbit/s
95th percentile per-packet one-way delay: 143.050 ms
Loss rate: 5.21%
-- Flow 2:
Average throughput: 671.35 Mbit/s
95th percentile per-packet one-way delay: 136.184 ms
Loss rate: 6.37%
-- Flow 3:
Average throughput: 539.47 Mbit/s
95th percentile per-packet one-way delay: 165.653 ms
Loss rate: 7.99%
Run 8: Report of FillP — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 Ingress (mean 754.88 Mbps)
- Flow 1 Egress (mean 718.13 Mbps)
- Flow 2 Ingress (mean 713.36 Mbps)
- Flow 2 Egress (mean 671.35 Mbps)
- Flow 3 Ingress (mean 580.04 Mbps)
- Flow 3 Egress (mean 539.47 Mbps)

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

- Flow 1 (95th percentile 143.05 ms)
- Flow 2 (95th percentile 136.18 ms)
- Flow 3 (95th percentile 165.65 ms)
Run 9: Statistics of FillP

Start at: 2018-05-26 17:40:17
End at: 2018-05-26 17:40:47
Local clock offset: 0.242 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-26 19:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1445.46 Mbit/s
95th percentile per-packet one-way delay: 130.465 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 742.87 Mbit/s
95th percentile per-packet one-way delay: 137.060 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 744.90 Mbit/s
95th percentile per-packet one-way delay: 121.069 ms
Loss rate: 2.83%
-- Flow 3:
Average throughput: 630.69 Mbit/s
95th percentile per-packet one-way delay: 128.033 ms
Loss rate: 3.56%
Run 9: Report of FillP — Data Link

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

- **Flow 1 Ingress (mean 771.82 Mbps)**
- **Flow 1 Egress (mean 742.87 Mbps)**
- **Flow 2 Ingress (mean 762.67 Mbps)**
- **Flow 2 Egress (mean 744.90 Mbps)**
- **Flow 3 Ingress (mean 647.19 Mbps)**
- **Flow 3 Egress (mean 630.69 Mbps)**

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

- **Flow 1 (95th percentile 137.06 ms)**
- **Flow 2 (95th percentile 121.07 ms)**
- **Flow 3 (95th percentile 128.03 ms)**
Run 10: Statistics of FillP

Start at: 2018-05-26 18:03:43
End at: 2018-05-26 18:04:13
Local clock offset: 0.209 ms
Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1452.91 Mbit/s
95th percentile per-packet one-way delay: 129.316 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 796.72 Mbit/s
95th percentile per-packet one-way delay: 120.291 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 668.31 Mbit/s
95th percentile per-packet one-way delay: 136.756 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 643.73 Mbit/s
95th percentile per-packet one-way delay: 127.567 ms
Loss rate: 3.34%
Run 10: Report of FillP — Data Link

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

- Flow 1 ingo (mean 815.95 Mbps)
- Flow 1 egress (mean 796.72 Mbps)
- Flow 2 ingo (mean 688.86 Mbps)
- Flow 2 egress (mean 688.33 Mbps)
- Flow 3 ingo (mean 658.83 Mbps)
- Flow 3 egress (mean 643.73 Mbps)

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

- Flow 1 (95th percentile 120.29 ms)
- Flow 2 (95th percentile 136.76 ms)
- Flow 3 (95th percentile 127.57 ms)
Run 1: Statistics of Indigo

Start at: 2018-05-26 14:19:30
End at: 2018-05-26 14:20:00
Local clock offset: -0.003 ms
Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.01 Mbit/s
95th percentile per-packet one-way delay: 60.448 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 217.06 Mbit/s
95th percentile per-packet one-way delay: 59.363 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 178.70 Mbit/s
95th percentile per-packet one-way delay: 60.692 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 157.52 Mbit/s
95th percentile per-packet one-way delay: 62.172 ms
Loss rate: 1.25%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

End at: 2018-05-26 14:43:02
Local clock offset: 0.124 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.07 Mbit/s
95th percentile per-packet one-way delay: 59.348 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 233.47 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 204.94 Mbit/s
95th percentile per-packet one-way delay: 59.605 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 155.43 Mbit/s
95th percentile per-packet one-way delay: 61.183 ms
Loss rate: 1.16%
Run 2: Report of Indigo — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 233.33 Mbit/s)
Flow 1 egress (mean 233.47 Mbit/s)
Flow 2 ingress (mean 204.98 Mbit/s)
Flow 2 egress (mean 204.94 Mbit/s)
Flow 3 ingress (mean 155.63 Mbit/s)
Flow 3 egress (mean 155.43 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 58.10 ms)
Flow 2 (95th percentile 59.60 ms)
Flow 3 (95th percentile 61.18 ms)
Run 3: Statistics of Indigo

Start at: 2018-05-26 15:05:39
End at: 2018-05-26 15:06:09
Local clock offset: 0.281 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
  95th percentile per-packet one-way delay: 57.540 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 225.23 Mbit/s
  95th percentile per-packet one-way delay: 56.786 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 192.45 Mbit/s
  95th percentile per-packet one-way delay: 57.776 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 159.98 Mbit/s
  95th percentile per-packet one-way delay: 58.562 ms
  Loss rate: 1.19%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

End at: 2018-05-26 15:29:20
Local clock offset: -0.099 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 392.37 Mbit/s
  95th percentile per-packet one-way delay: 56.901 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 215.81 Mbit/s
  95th percentile per-packet one-way delay: 56.509 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 191.71 Mbit/s
  95th percentile per-packet one-way delay: 57.034 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 152.40 Mbit/s
  95th percentile per-packet one-way delay: 57.707 ms
  Loss rate: 1.19%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2018-05-26 15:52:34
End at: 2018-05-26 15:53:04
Local clock offset: -0.169 ms
Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 412.74 Mbit/s
95th percentile per-packet one-way delay: 58.886 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 227.98 Mbit/s
95th percentile per-packet one-way delay: 57.943 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 201.84 Mbit/s
95th percentile per-packet one-way delay: 59.294 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 156.84 Mbit/s
95th percentile per-packet one-way delay: 59.794 ms
Loss rate: 1.25%
Run 5: Report of Indigo — Data Link
Run 6: Statistics of Indigo

Start at: 2018-05-26 16:15:35
End at: 2018-05-26 16:16:05
Local clock offset: -0.172 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 373.55 Mbit/s
  95th percentile per-packet one-way delay: 55.333 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 198.67 Mbit/s
  95th percentile per-packet one-way delay: 54.731 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 175.11 Mbit/s
  95th percentile per-packet one-way delay: 55.266 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 175.38 Mbit/s
  95th percentile per-packet one-way delay: 57.494 ms
  Loss rate: 1.21%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-05-26 16:38:41
End at: 2018-05-26 16:39:11
Local clock offset: -0.175 ms
Remote clock offset: -0.452 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 448.74 Mbit/s
95th percentile per-packet one-way delay: 53.521 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 236.04 Mbit/s
95th percentile per-packet one-way delay: 52.830 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 236.13 Mbit/s
95th percentile per-packet one-way delay: 54.091 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 174.72 Mbit/s
95th percentile per-packet one-way delay: 54.499 ms
Loss rate: 1.25%
Run 7: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 235.99 Mbit/s)
- Flow 1 egress (mean 236.04 Mbit/s)
- Flow 2 ingress (mean 236.01 Mbit/s)
- Flow 2 egress (mean 236.13 Mbit/s)
- Flow 3 ingress (mean 175.09 Mbit/s)
- Flow 3 egress (mean 174.72 Mbit/s)

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

- Flow 1 (95th percentile 52.83 ms)
- Flow 2 (95th percentile 54.09 ms)
- Flow 3 (95th percentile 54.50 ms)
Run 8: Statistics of Indigo

Start at: 2018-05-26 17:01:15
End at: 2018-05-26 17:01:45
Local clock offset: 0.01 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 418.29 Mbit/s
  95th percentile per-packet one-way delay: 55.043 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 227.64 Mbit/s
  95th percentile per-packet one-way delay: 54.500 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 206.55 Mbit/s
  95th percentile per-packet one-way delay: 55.326 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 166.30 Mbit/s
  95th percentile per-packet one-way delay: 55.985 ms
  Loss rate: 1.25%
Run 8: Report of Indigo — Data Link
Run 9: Statistics of Indigo

Start at: 2018-05-26 17:24:37
End at: 2018-05-26 17:25:07
Local clock offset: -0.288 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 397.59 Mbit/s
95th percentile per-packet one-way delay: 54.297 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 210.69 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 200.16 Mbit/s
95th percentile per-packet one-way delay: 54.509 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 166.04 Mbit/s
95th percentile per-packet one-way delay: 55.237 ms
Loss rate: 1.18%
Run 9: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 210.70 Mbit/s)
- Flow 1 egress (mean 210.69 Mbit/s)
- Flow 2 ingress (mean 200.20 Mbit/s)
- Flow 2 egress (mean 200.16 Mbit/s)
- Flow 3 ingress (mean 166.28 Mbit/s)
- Flow 3 egress (mean 166.04 Mbit/s)
Run 10: Statistics of Indigo

Start at: 2018-05-26 17:48:15
End at: 2018-05-26 17:48:45
Local clock offset: 0.139 ms
Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2018-05-26 19:59:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.70 Mbit/s
95th percentile per-packet one-way delay: 53.437 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 222.80 Mbit/s
95th percentile per-packet one-way delay: 53.015 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 198.30 Mbit/s
95th percentile per-packet one-way delay: 53.748 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 176.52 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 1.21%
Run 10: Report of Indigo — Data Link

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

- **Flow 1** (ingress mean 222.80 Mbps, egress mean 222.80 Mbps)
- **Flow 2** (ingress mean 198.43 Mbps, egress mean 198.39 Mbps)
- **Flow 3** (ingress mean 176.81 Mbps, egress mean 176.52 Mbps)

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

- **Flow 1** (95th percentile 53.02 ms)
- **Flow 2** (95th percentile 53.75 ms)
- **Flow 3** (95th percentile 53.74 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-05-26 14:25:14
End at: 2018-05-26 14:25:44
Local clock offset: -0.058 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 51.487 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 51.540 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 51.370 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 51.427 ms
Loss rate: 2.46%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

End at: 2018-05-26 14:48:45
Local clock offset: 0.399 ms
Remote clock offset: 0.526 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.07 Mbit/s
95th percentile per-packet one-way delay: 51.319 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 51.032 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 20.80 Mbit/s
95th percentile per-packet one-way delay: 51.365 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 51.086 ms
Loss rate: 2.82%
Run 2: Report of LEDBAT — Data Link

[Graphs showing data link performance metrics]
Run 3: Statistics of LEDBAT

Start at: 2018-05-26 15:11:24
End at: 2018-05-26 15:11:54
Local clock offset: -0.173 ms
Remote clock offset: 0.384 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.71 Mbit/s
95th percentile per-packet one-way delay: 51.489 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 51.534 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 23.23 Mbit/s
95th percentile per-packet one-way delay: 51.522 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 50.736 ms
Loss rate: 2.15%
Run 4: Statistics of LEDBAT

Start at: 2018-05-26 15:34:37
End at: 2018-05-26 15:35:07
Local clock offset: 0.046 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 49.92 Mbit/s
 95th percentile per-packet one-way delay: 51.822 ms
 Loss rate: 0.85%
-- Flow 1:
 Average throughput: 31.83 Mbit/s
 95th percentile per-packet one-way delay: 51.899 ms
 Loss rate: 0.70%
-- Flow 2:
 Average throughput: 21.69 Mbit/s
 95th percentile per-packet one-way delay: 51.489 ms
 Loss rate: 0.85%
-- Flow 3:
 Average throughput: 11.13 Mbit/s
 95th percentile per-packet one-way delay: 52.123 ms
 Loss rate: 2.09%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-05-26 15:58:21
End at: 2018-05-26 15:58:51
Local clock offset: 0.159 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.81 Mbit/s
  95th percentile per-packet one-way delay: 51.980 ms
  Loss rate: 0.83%
-- Flow 1:
  Average throughput: 32.26 Mbit/s
  95th percentile per-packet one-way delay: 52.116 ms
  Loss rate: 0.70%
-- Flow 2:
  Average throughput: 20.91 Mbit/s
  95th percentile per-packet one-way delay: 51.703 ms
  Loss rate: 0.79%
-- Flow 3:
  Average throughput: 11.16 Mbit/s
  95th percentile per-packet one-way delay: 51.618 ms
  Loss rate: 2.08%
Run 5: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 32.37 Mbit/s)**
- **Flow 1 egress (mean 32.26 Mbit/s)**
- **Flow 2 ingress (mean 20.97 Mbit/s)**
- **Flow 2 egress (mean 20.91 Mbit/s)**
- **Flow 3 ingress (mean 11.28 Mbit/s)**
- **Flow 3 egress (mean 11.16 Mbit/s)**

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

- **Flow 1 (95th percentile 52.12 ms)**
- **Flow 2 (95th percentile 51.70 ms)**
- **Flow 3 (95th percentile 51.62 ms)**
Run 6: Statistics of LEDBAT

Start at: 2018-05-26 16:21:18
Local clock offset: -0.153 ms
Remote clock offset: 0.393 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.72 Mbit/s
  95th percentile per.packet one-way delay: 51.414 ms
  Loss rate: 0.88%
-- Flow 1:
  Average throughput: 34.57 Mbit/s
  95th percentile per.packet one-way delay: 51.548 ms
  Loss rate: 0.68%
-- Flow 2:
  Average throughput: 22.15 Mbit/s
  95th percentile per.packet one-way delay: 51.204 ms
  Loss rate: 1.04%
-- Flow 3:
  Average throughput: 10.48 Mbit/s
  95th percentile per.packet one-way delay: 50.982 ms
  Loss rate: 2.14%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-05-26 16:44:28
End at: 2018-05-26 16:44:58
Local clock offset: 0.249 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 51.630 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 33.67 Mbit/s
95th percentile per-packet one-way delay: 51.615 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 17.21 Mbit/s
95th percentile per-packet one-way delay: 51.349 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 11.10 Mbit/s
95th percentile per-packet one-way delay: 52.646 ms
Loss rate: 2.08%
Run 7: Report of LEDBAT — Data Link

Throughput (Mbps) vs Time (s)

- Flow 1 ingress (mean 33.79 Mbps)
- Flow 1 egress (mean 33.67 Mbps)
- Flow 2 ingress (mean 17.30 Mbps)
- Flow 2 egress (mean 17.21 Mbps)
- Flow 3 ingress (mean 11.21 Mbps)
- Flow 3 egress (mean 11.10 Mbps)

Delay (ms) vs Time (s)

- Flow 1 (95th percentile 51.62 ms)
- Flow 2 (95th percentile 51.35 ms)
- Flow 3 (95th percentile 52.65 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-05-26 17:07:04
End at: 2018-05-26 17:07:34
Local clock offset: -0.102 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 51.780 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 21.58 Mbit/s
95th percentile per-packet one-way delay: 52.124 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 51.538 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 2.11%
Run 8: Report of LEDBAT — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 21.70 Mbps)
- Flow 1 egress (mean 21.58 Mbps)
- Flow 2 ingress (mean 22.45 Mbps)
- Flow 2 egress (mean 22.34 Mbps)
- Flow 3 ingress (mean 10.84 Mbps)
- Flow 3 egress (mean 10.72 Mbps)

**Per packet one way delay (ms):**
- Flow 1 (95th percentile 52.12 ms)
- Flow 2 (95th percentile 51.54 ms)
- Flow 3 (95th percentile 50.91 ms)
Run 9: Statistics of LEDBAT

Start at: 2018-05-26 17:30:23
End at: 2018-05-26 17:30:53
Local clock offset: 0.12 ms
Remote clock offset: -0.291 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 46.38 Mbit/s
  95th percentile per-packet one-way delay: 52.505 ms
  Loss rate: 0.93%
-- Flow 1:
  Average throughput: 32.63 Mbit/s
  95th percentile per-packet one-way delay: 52.643 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 15.21 Mbit/s
  95th percentile per-packet one-way delay: 52.151 ms
  Loss rate: 1.25%
-- Flow 3:
  Average throughput: 11.15 Mbit/s
  95th percentile per-packet one-way delay: 51.810 ms
  Loss rate: 2.09%
Run 9: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 32.75 Mbit/s)
- Flow 1 egress (mean 32.63 Mbit/s)
- Flow 2 ingress (mean 15.32 Mbit/s)
- Flow 2 egress (mean 15.21 Mbit/s)
- Flow 3 ingress (mean 11.27 Mbit/s)
- Flow 3 egress (mean 11.15 Mbit/s)
Run 10: Statistics of LEDBAT

Start at: 2018-05-26 17:53:57
End at: 2018-05-26 17:54:27
Local clock offset: 0.018 ms
Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.08 Mbit/s
  95th percentile per-packet one-way delay: 51.450 ms
  Loss rate: 0.78%
  -- Flow 1:
  Average throughput: 34.15 Mbit/s
  95th percentile per-packet one-way delay: 51.391 ms
  Loss rate: 0.54%
  -- Flow 2:
  Average throughput: 23.16 Mbit/s
  95th percentile per-packet one-way delay: 51.648 ms
  Loss rate: 1.02%
  -- Flow 3:
  Average throughput: 10.90 Mbit/s
  95th percentile per-packet one-way delay: 51.330 ms
  Loss rate: 2.10%
Run 10: Report of LEDBAT — Data Link

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

![Graph 2: Per packet one way delay](image2)
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-26 14:26:25
End at: 2018-05-26 14:26:55
Local clock offset: -0.304 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.89 Mbit/s
95th percentile per-packet one-way delay: 176.644 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 472.23 Mbit/s
95th percentile per-packet one-way delay: 176.621 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 176.943 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 175.638 ms
Loss rate: 1.81%
Run 1: Report of PCC-Allegro — Data Link

Throughput (Mbps) vs. Time (s)

Flow 1 ingress (mean 478.37 Mbps)  Flow 1 egress (mean 472.23 Mbps)
Flow 2 ingress (mean 64.54 Mbps)   Flow 2 egress (mean 63.78 Mbps)
Flow 3 ingress (mean 4.43 Mbps)    Flow 3 egress (mean 4.39 Mbps)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 176.62 ms)  Flow 2 (95th percentile 176.94 ms)  Flow 3 (95th percentile 175.64 ms)
Run 2: Statistics of PCC-Allegro

End at: 2018-05-26 14:49:54
Local clock offset: 0.215 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.39 Mbit/s
95th percentile per-packet one-way delay: 169.821 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 472.99 Mbit/s
95th percentile per-packet one-way delay: 169.833 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 67.83 Mbit/s
95th percentile per-packet one-way delay: 169.742 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 162.556 ms
Loss rate: 1.17%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-26 15:12:35
End at: 2018-05-26 15:13:05
Local clock offset: -0.033 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 553.20 Mbit/s
  95th percentile per-packet one-way delay: 167.764 ms
  Loss rate: 2.07%
-- Flow 1:
  Average throughput: 501.96 Mbit/s
  95th percentile per-packet one-way delay: 167.768 ms
  Loss rate: 2.02%
-- Flow 2:
  Average throughput: 68.02 Mbit/s
  95th percentile per-packet one-way delay: 167.806 ms
  Loss rate: 2.54%
-- Flow 3:
  Average throughput: 18.66 Mbit/s
  95th percentile per-packet one-way delay: 150.687 ms
  Loss rate: 2.79%
Run 3: Report of PCC-Allegro — Data Link

[Graph showing throughput and packet delay over time for different flow rates.]
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-26 15:35:49
End at: 2018-05-26 15:36:19
Local clock offset: 0.093 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.08 Mbit/s
95th percentile per-packet one-way delay: 175.955 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 511.16 Mbit/s
95th percentile per-packet one-way delay: 176.140 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 173.848 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 65.90 Mbit/s
95th percentile per-packet one-way delay: 125.713 ms
Loss rate: 1.13%
Run 4: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet mean delay over time for different flows.](image-url)
Run 5: Statistics of PCC-Allegro

End at: 2018-05-26 16:00:02
Local clock offset: 0.2 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 576.41 Mbit/s
  95th percentile per-packet one-way delay: 162.501 ms
  Loss rate: 1.01%
-- Flow 1:
  Average throughput: 511.77 Mbit/s
  95th percentile per-packet one-way delay: 162.419 ms
  Loss rate: 0.96%
-- Flow 2:
  Average throughput: 68.18 Mbit/s
  95th percentile per-packet one-way delay: 162.589 ms
  Loss rate: 1.20%
-- Flow 3:
  Average throughput: 59.31 Mbit/s
  95th percentile per-packet one-way delay: 163.055 ms
  Loss rate: 2.06%
Run 5: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 514.84 Mbit/s)
- Flow 1 egress (mean 511.77 Mbit/s)
- Flow 2 ingress (mean 68.05 Mbit/s)
- Flow 2 egress (mean 68.18 Mbit/s)
- Flow 3 ingress (mean 59.91 Mbit/s)
- Flow 3 egress (mean 59.31 Mbit/s)
Run 6: Statistics of PCC-Allegro

End at: 2018-05-26 16:23:00
Local clock offset: -0.015 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-05-26 19:59:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 546.71 Mbit/s
95th percentile per-packet one-way delay: 172.074 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 525.56 Mbit/s
95th percentile per-packet one-way delay: 172.068 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 172.209 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 172.172 ms
Loss rate: 2.65%
Run 6: Report of PCC-Allegro — Data Link

[Graph showing throughput and packet delay over time for different flows.]
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-26 16:45:39
End at: 2018-05-26 16:46:09
Local clock offset: 0.001 ms
Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2018-05-26 20:00:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 549.21 Mbit/s
  95th percentile per-packet one-way delay: 152.629 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 483.20 Mbit/s
  95th percentile per-packet one-way delay: 152.777 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 82.45 Mbit/s
  95th percentile per-packet one-way delay: 151.569 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 34.58 Mbit/s
  95th percentile per-packet one-way delay: 101.692 ms
  Loss rate: 1.49%
Run 7: Report of PCC-Allegro — Data Link

![Graph of Throughput (Mbps)](image1)

- **Flow 1 ingress (mean 484.32 Mbit/s)**
- **Flow 1 egress (mean 483.20 Mbit/s)**
- **Flow 2 ingress (mean 82.58 Mbit/s)**
- **Flow 2 egress (mean 82.45 Mbit/s)**
- **Flow 3 ingress (mean 34.74 Mbit/s)**
- **Flow 3 egress (mean 34.58 Mbit/s)**

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

- **Flow 1 (95th percentile 152.78 ms)**
- **Flow 2 (95th percentile 151.57 ms)**
- **Flow 3 (95th percentile 101.69 ms)**
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 17:08:15
End at: 2018-05-26 17:08:45
Local clock offset: 0.014 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-05-26 20:01:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 601.24 Mbit/s
95th percentile per-packet one-way delay: 161.085 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 568.07 Mbit/s
95th percentile per-packet one-way delay: 161.087 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 33.94 Mbit/s
95th percentile per-packet one-way delay: 161.027 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 161.214 ms
Loss rate: 2.10%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-26 17:31:34
End at: 2018-05-26 17:32:04
Local clock offset: -0.325 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-05-26 20:02:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 586.72 Mbit/s
  95th percentile per-packet one-way delay: 169.700 ms
  Loss rate: 2.49%
-- Flow 1:
  Average throughput: 466.03 Mbit/s
  95th percentile per-packet one-way delay: 169.597 ms
  Loss rate: 2.32%
-- Flow 2:
  Average throughput: 152.21 Mbit/s
  95th percentile per-packet one-way delay: 169.780 ms
  Loss rate: 2.72%
-- Flow 3:
  Average throughput: 60.15 Mbit/s
  95th percentile per-packet one-way delay: 170.356 ms
  Loss rate: 5.15%
Run 9: Report of PCC-Allegro — Data Link

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

**Throughput (Mbps)**
- **Flow 1 ingress (mean 475.46 Mbps)**
- **Flow 1 egress (mean 466.03 Mbps)**
- **Flow 2 ingress (mean 135.61 Mbps)**
- **Flow 2 egress (mean 132.21 Mbps)**
- **Flow 3 ingress (mean 62.77 Mbps)**
- **Flow 3 egress (mean 60.15 Mbps)**

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

**Per-packet one-way delay (ms)**
- **Flow 1 (95th percentile 169.60 ms)**
- **Flow 2 (95th percentile 169.78 ms)**
- **Flow 3 (95th percentile 170.36 ms)**
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 17:55:09
End at: 2018-05-26 17:55:39
Local clock offset: 0.268 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2018-05-26 20:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 592.71 Mbit/s
95th percentile per-packet one-way delay: 164.763 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 550.83 Mbit/s
95th percentile per-packet one-way delay: 164.724 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 164.721 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 60.78 Mbit/s
95th percentile per-packet one-way delay: 165.108 ms
Loss rate: 2.17%
Run 10: Report of PCC-Allegro — Data Link

[Graph showing network throughput and delay over time for different flows, with annotations for each curve indicating mean throughput and delay metrics.]
Run 1: Statistics of PCC-Expr

End at: 2018-05-26 14:40:02  
Local clock offset: -0.062 ms  
Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2018-05-26 20:13:25
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 515.55 Mbit/s
  95th percentile per-packet one-way delay: 245.190 ms
  Loss rate: 17.58%
  -- Flow 1:
  Average throughput: 296.43 Mbit/s
  95th percentile per-packet one-way delay: 178.280 ms
  Loss rate: 9.16%
  -- Flow 2:
  Average throughput: 328.33 Mbit/s
  95th percentile per-packet one-way delay: 278.298 ms
  Loss rate: 26.80%
  -- Flow 3:
  Average throughput: 3.36 Mbit/s
  95th percentile per-packet one-way delay: 177.700 ms
  Loss rate: 19.21%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-05-26 15:02:45  
End at: 2018-05-26 15:03:15  
Local clock offset: 0.066 ms  
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-05-26 20:13:25  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 401.95 Mbit/s  
  95th percentile per-packet one-way delay: 73.342 ms  
  Loss rate: 0.43%  
-- Flow 1:  
  Average throughput: 289.54 Mbit/s  
  95th percentile per-packet one-way delay: 115.136 ms  
  Loss rate: 0.27%  
-- Flow 2:  
  Average throughput: 141.57 Mbit/s  
  95th percentile per-packet one-way delay: 53.466 ms  
  Loss rate: 0.75%  
-- Flow 3:  
  Average throughput: 56.19 Mbit/s  
  95th percentile per-packet one-way delay: 53.676 ms  
  Loss rate: 1.21%
Run 2: Report of PCC-Expr — Data Link

[Graph showing throughput and per-packet one-way delay over time for different data flows: Flow 1 ingress (mean 289.35 Mbit/s), Flow 1 egress (mean 289.54 Mbit/s), Flow 2 ingress (mean 141.90 Mbit/s), Flow 2 egress (mean 141.57 Mbit/s), Flow 3 ingress (mean 56.28 Mbit/s), Flow 3 egress (mean 56.19 Mbit/s).]
Run 3: Statistics of PCC-Expr

Start at: 2018-05-26 15:26:04
End at: 2018-05-26 15:26:34
Local clock offset: 0.029 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-05-26 20:13:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 326.28 Mbit/s
  95th percentile per-packet one-way delay: 189.479 ms
  Loss rate: 2.77%
-- Flow 1:
  Average throughput: 92.64 Mbit/s
  95th percentile per-packet one-way delay: 57.391 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 288.99 Mbit/s
  95th percentile per-packet one-way delay: 203.308 ms
  Loss rate: 4.07%
-- Flow 3:
  Average throughput: 127.25 Mbit/s
  95th percentile per-packet one-way delay: 68.225 ms
  Loss rate: 1.80%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

End at: 2018-05-26 15:50:09
Local clock offset: 0.114 ms
Remote clock offset: 0.084 ms

# Below is generated by plot.py at 2018-05-26 20:17:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 489.85 Mbit/s
  95th percentile per-packet one-way delay: 191.783 ms
  Loss rate: 5.10%
-- Flow 1:
  Average throughput: 330.97 Mbit/s
  95th percentile per-packet one-way delay: 201.561 ms
  Loss rate: 6.08%
-- Flow 2:
  Average throughput: 193.90 Mbit/s
  95th percentile per-packet one-way delay: 174.143 ms
  Loss rate: 3.44%
-- Flow 3:
  Average throughput: 92.01 Mbit/s
  95th percentile per-packet one-way delay: 80.053 ms
  Loss rate: 1.10%
Run 4: Report of PCC-Expr — Data Link

![Graph showing throughput and delay for different flows]

- **Throughput**: Flow 1 ingress (mean 351.19 Mbit/s), Flow 1 egress (mean 330.97 Mbit/s), Flow 2 ingress (mean 199.77 Mbit/s), Flow 2 egress (mean 193.90 Mbit/s), Flow 3 ingress (mean 92.07 Mbit/s), Flow 3 egress (mean 92.01 Mbit/s)

- **Delay**: Flow 1 (95th percentile 201.56 ms), Flow 2 (95th percentile 174.14 ms), Flow 3 (95th percentile 80.05 ms)
Run 5: Statistics of PCC-Expr

Start at: 2018-05-26 16:12:57
Local clock offset: -0.072 ms
Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2018-05-26 20:17:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.02 Mbit/s
95th percentile per-packet one-way delay: 94.310 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 133.01 Mbit/s
95th percentile per-packet one-way delay: 169.355 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 53.655 ms
Loss rate: 1.13%
Run 5: Report of PCC-Expr — Data Link

[Graph showing throughput and packet one-way delay over time for different flows.]
Run 6: Statistics of PCC-Expr

Start at: 2018-05-26 16:36:00
End at: 2018-05-26 16:36:30
Local clock offset: 0.093 ms
Remote clock offset: -0.439 ms

# Below is generated by plot.py at 2018-05-26 20:17:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.90 Mbit/s
95th percentile per-packet one-way delay: 179.446 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 103.24 Mbit/s
95th percentile per-packet one-way delay: 54.366 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 109.30 Mbit/s
95th percentile per-packet one-way delay: 63.112 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 271.75 Mbit/s
95th percentile per-packet one-way delay: 250.952 ms
Loss rate: 5.40%
Run 6: Report of PCC-Expr — Data Link

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

Start at: 2018-05-26 16:58:40
End at: 2018-05-26 16:59:10
Local clock offset: 0.218 ms
Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2018-05-26 20:17:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 185.67 Mbit/s
95th percentile per-packet one-way delay: 54.081 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 100.45 Mbit/s
95th percentile per-packet one-way delay: 54.043 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 54.111 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 75.24 Mbit/s
95th percentile per-packet one-way delay: 54.117 ms
Loss rate: 1.33%
Run 7: Report of PCC-Expr — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 100.41 Mbps)
- Flow 1 egress (mean 100.46 Mbps)
- Flow 2 ingress (mean 91.18 Mbps)
- Flow 2 egress (mean 91.25 Mbps)
- Flow 3 ingress (mean 75.64 Mbps)
- Flow 3 egress (mean 75.24 Mbps)

**Per packet one-way delay (ms):**
- Flow 1 (95th percentile 54.04 ms)
- Flow 2 (95th percentile 54.11 ms)
- Flow 3 (95th percentile 54.12 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-05-26 17:21:51
End at: 2018-05-26 17:22:21
Local clock offset: -0.085 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-05-26 20:17:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.31 Mbit/s
95th percentile per-packet one-way delay: 60.991 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 99.68 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 226.41 Mbit/s
95th percentile per-packet one-way delay: 81.289 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 150.52 Mbit/s
95th percentile per-packet one-way delay: 55.220 ms
Loss rate: 1.66%
Run 8: Report of PCC-Expr — Data Link

Graph 1: Time (s) vs. Throughput (Mb/s)

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

Legend:
- Flow 1 ingress (mean 99.63 Mb/s)
- Flow 1 egress (mean 99.68 Mb/s)
- Flow 2 ingress (mean 226.51 Mb/s)
- Flow 2 egress (mean 226.41 Mb/s)
- Flow 3 ingress (mean 151.43 Mb/s)
- Flow 3 egress (mean 150.52 Mb/s)

Flow 1 (95th percentile 53.64 ms)
Flow 2 (95th percentile 81.29 ms)
Flow 3 (95th percentile 55.22 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 17:45:19
End at: 2018-05-26 17:45:49
Local clock offset: 0.014 ms
Remote clock offset: 0.365 ms

# Below is generated by plot.py at 2018-05-26 20:24:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 437.08 Mbit/s
95th percentile per-packet one-way delay: 204.204 ms
Loss rate: 6.85%
-- Flow 1:
Average throughput: 327.88 Mbit/s
95th percentile per-packet one-way delay: 230.336 ms
Loss rate: 8.45%
-- Flow 2:
Average throughput: 114.26 Mbit/s
95th percentile per-packet one-way delay: 168.415 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 101.74 Mbit/s
95th percentile per-packet one-way delay: 50.760 ms
Loss rate: 1.26%
Run 9: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 356.92 Mbps)
- Flow 1 egress (mean 327.88 Mbps)
- Flow 2 ingress (mean 115.88 Mbps)
- Flow 2 egress (mean 114.26 Mbps)
- Flow 3 ingress (mean 101.97 Mbps)
- Flow 3 egress (mean 101.74 Mbps)

![Graph 2: End-to-end delay (ms)]

- Flow 1 (95th percentile 230.34 ms)
- Flow 2 (95th percentile 168.41 ms)
- Flow 3 (95th percentile 50.76 ms)
Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 18:08:50
End at: 2018-05-26 18:09:20
Local clock offset: 0.012 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.25 Mbit/s
95th percentile per-packet one-way delay: 142.152 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 295.63 Mbit/s
95th percentile per-packet one-way delay: 135.746 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 209.82 Mbit/s
95th percentile per-packet one-way delay: 191.460 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 89.41 Mbit/s
95th percentile per-packet one-way delay: 51.757 ms
Loss rate: 1.10%
Run 10: Report of PCC-Expr — Data Link

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

Throughput (Mbps): 0 to 400
Time (s): 0 to 30

- **Flow 1 ingress** (mean 296.57 Mbps)
- **Flow 1 egress** (mean 295.63 Mbps)
- **Flow 2 ingress** (mean 210.69 Mbps)
- **Flow 2 egress** (mean 209.82 Mbps)
- **Flow 3 ingress** (mean 89.47 Mbps)
- **Flow 3 egress** (mean 89.41 Mbps)

Delay (ms): 50 to 250
Time (s): 0 to 30

- **Flow 1** (95th percentile 135.75 ms)
- **Flow 2** (95th percentile 191.46 ms)
- **Flow 3** (95th percentile 51.76 ms)
Run 1: Statistics of QUIC Cubic

End at: 2018-05-26 14:32:18
Local clock offset: 0.055 ms
Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 54.59 Mbit/s
95th percentile per-packet one-way delay: 53.554 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 53.817 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 53.724 ms
Loss rate: 0.90%
Run 1: Report of QUIC Cubic — Data Link

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

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

Start at: 2018-05-26 14:54:48
Local clock offset: -0.283 ms
Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 53.190 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 60.38 Mbit/s
95th percentile per-packet one-way delay: 49.616 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 49.713 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 16.97 Mbit/s
95th percentile per-packet one-way delay: 53.324 ms
Loss rate: 0.35%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 60.46 Mbit/s)
- Flow 1 egress (mean 60.38 Mbit/s)
- Flow 2 ingress (mean 28.17 Mbit/s)
- Flow 2 egress (mean 27.96 Mbit/s)
- Flow 3 ingress (mean 16.85 Mbit/s)
- Flow 3 egress (mean 16.97 Mbit/s)

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

- Flow 1 (95th percentile 49.62 ms)
- Flow 2 (95th percentile 49.71 ms)
- Flow 3 (95th percentile 53.32 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-26 15:17:59
End at: 2018-05-26 15:18:29
Local clock offset: 0.089 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.14 Mbit/s
95th percentile per-packet one-way delay: 53.447 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 53.440 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 53.468 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 21.40 Mbit/s
95th percentile per-packet one-way delay: 53.407 ms
Loss rate: 0.43%
Run 3: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 61.59 Mbit/s)
- Flow 1 egress (mean 61.55 Mbit/s)
- Flow 2 ingress (mean 34.26 Mbit/s)
- Flow 2 egress (mean 33.97 Mbit/s)
- Flow 3 ingress (mean 21.26 Mbit/s)
- Flow 3 egress (mean 21.40 Mbit/s)

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

- Flow 1 (95th percentile 53.44 ms)
- Flow 2 (95th percentile 53.47 ms)
- Flow 3 (95th percentile 53.41 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-26 15:41:40
End at: 2018-05-26 15:42:10
Local clock offset: -0.14 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.78 Mbit/s
95th percentile per-packet one-way delay: 53.548 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 50.063 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 22.22 Mbit/s
95th percentile per-packet one-way delay: 50.227 ms
Loss rate: 0.70%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-26 16:05:05
End at: 2018-05-26 16:05:35
Local clock offset: -0.269 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.84 Mbit/s
  95th percentile per-packet one-way delay: 53.438 ms
  Loss rate: 0.71%
-- Flow 1:
  Average throughput: 55.70 Mbit/s
  95th percentile per-packet one-way delay: 53.403 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 30.38 Mbit/s
  95th percentile per-packet one-way delay: 53.455 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 21.21 Mbit/s
  95th percentile per-packet one-way delay: 53.527 ms
  Loss rate: 2.45%
Run 5: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 55.78 Mb/s)
- Flow 1 egress (mean 55.70 Mb/s)
- Flow 2 ingress (mean 30.43 Mb/s)
- Flow 2 egress (mean 30.38 Mb/s)
- Flow 3 ingress (mean 21.52 Mb/s)
- Flow 3 egress (mean 21.21 Mb/s)

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

- Flow 1 (95th percentile 53.40 ms)
- Flow 2 (95th percentile 53.45 ms)
- Flow 3 (95th percentile 53.53 ms)
Run 6: Statistics of QUIC Cubic

End at: 2018-05-26 16:28:29
Local clock offset: 0.021 ms
Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 53.906 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 60.73 Mbit/s
95th percentile per-packet one-way delay: 53.216 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 53.966 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 21.24 Mbit/s
95th percentile per-packet one-way delay: 50.546 ms
Loss rate: 0.53%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-26 16:50:52
End at: 2018-05-26 16:51:22
Local clock offset: 0.058 ms
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.04 Mbit/s
  95th percentile per-packet one-way delay: 53.901 ms
  Loss rate: 0.80%
-- Flow 1:
  Average throughput: 54.64 Mbit/s
  95th percentile per-packet one-way delay: 53.922 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 35.51 Mbit/s
  95th percentile per-packet one-way delay: 53.815 ms
  Loss rate: 1.12%
-- Flow 3:
  Average throughput: 20.80 Mbit/s
  95th percentile per-packet one-way delay: 50.826 ms
  Loss rate: 2.48%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-26 17:13:42
End at: 2018-05-26 17:14:12
Local clock offset: 0.045 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.11 Mbit/s
  95th percentile per-packet one-way delay: 53.658 ms
  Loss rate: 0.70%
-- Flow 1:
  Average throughput: 63.58 Mbit/s
  95th percentile per-packet one-way delay: 53.666 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 35.10 Mbit/s
  95th percentile per-packet one-way delay: 53.642 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 19.05 Mbit/s
  95th percentile per-packet one-way delay: 50.253 ms
  Loss rate: 0.82%
Run 8: Report of QUIC Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 63.65 Mbit/s)
- Flow 1 egress (mean 63.58 Mbit/s)
- Flow 2 ingress (mean 35.38 Mbit/s)
- Flow 2 egress (mean 35.10 Mbit/s)
- Flow 3 ingress (mean 19.62 Mbit/s)
- Flow 3 egress (mean 19.05 Mbit/s)
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 17:37:17
End at: 2018-05-26 17:37:47
Local clock offset: -0.144 ms
Remote clock offset: 0.292 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.13 Mbit/s
95th percentile per-packet one-way delay: 53.230 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 53.183 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 50.121 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 18.85 Mbit/s
95th percentile per-packet one-way delay: 53.482 ms
Loss rate: 1.33%
Run 9: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 51.86 Mbit/s)
- Flow 1 egress (mean 51.79 Mbit/s)
- Flow 2 ingress (mean 36.63 Mbit/s)
- Flow 2 egress (mean 36.38 Mbit/s)
- Flow 3 ingress (mean 18.91 Mbit/s)
- Flow 3 egress (mean 18.85 Mbit/s)

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

- Flow 1 (95th percentile 53.18 ms)
- Flow 2 (95th percentile 50.12 ms)
- Flow 3 (95th percentile 53.48 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-26 18:00:40
End at: 2018-05-26 18:01:10
Local clock offset: 0.059 ms
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 53.626 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 53.644 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 50.289 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 22.47 Mbit/s
95th percentile per-packet one-way delay: 53.629 ms
Loss rate: 0.64%
Run 10: Report of QUIC Cubic — Data Link

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

- **Flow 1**: Ingress (mean 55.28 Mbit/s), Egress (mean 55.18 Mbit/s)
- **Flow 2**: Ingress (mean 32.09 Mbit/s), Egress (mean 31.62 Mbit/s)
- **Flow 3**: Ingress (mean 22.39 Mbit/s), Egress (mean 22.47 Mbit/s)

- Flow 1 (95th percentile 53.64 ms), Flow 2 (95th percentile 50.29 ms), Flow 3 (95th percentile 53.63 ms)
Run 1: Statistics of SCReAM

Start at: 2018-05-26 14:24:05
End at: 2018-05-26 14:24:35
Local clock offset: 0.425 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.499 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.503 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.501 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.335 ms
Loss rate: 1.08%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-05-26 14:47:07
End at: 2018-05-26 14:47:37
Local clock offset: 0.073 ms
Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.123 ms
Loss rate: 1.09%
Run 2: Report of SCReAM — Data Link

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

Legend:
- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)
Run 3: Statistics of SCReAM

Start at: 2018-05-26 15:10:15
End at: 2018-05-26 15:10:45
Local clock offset: 0.178 ms
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.421 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.119 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 1.09%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-05-26 15:33:29
End at: 2018-05-26 15:33:59
Local clock offset: 0.268 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.951 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.961 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 52.873 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.544 ms
  Loss rate: 1.10%
Run 4: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.22 Mbit/s)
- Flow 2 egress (mean 0.22 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)
Run 5: Statistics of SCReAM

End at: 2018-05-26 15:57:43
Local clock offset: -0.499 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.482 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.249 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 1.08%
Run 5: Report of SCReAM — Data Link

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

[Graph showing per-packet one-way delay in ms for different flows]
Run 6: Statistics of SCReAM

Start at: 2018-05-26 16:20:10
End at: 2018-05-26 16:20:40
Local clock offset: 0.004 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.694 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.656 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.733 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.685 ms
  Loss rate: 1.10%
Run 6: Report of SCReAM — Data Link

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

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

- Packet loss (ms):
  - Flow 1 (95th percentile 53.66 ms)
  - Flow 2 (95th percentile 53.73 ms)
  - Flow 3 (95th percentile 53.69 ms)
Run 7: Statistics of SCReAM

Start at: 2018-05-26 16:43:19
End at: 2018-05-26 16:43:49
Local clock offset: 0.022 ms
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.997 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.760 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.035 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 1.09%
Run 7: Report of SCReAM — Data Link

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

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

- **Per-packet loss (ms):**
  - Flow 1 (95th percentile 50.76 ms)
  - Flow 2 (95th percentile 54.03 ms)
  - Flow 3 (95th percentile 53.76 ms)
Run 8: Statistics of SCReAM

Start at: 2018-05-26 17:05:55
End at: 2018-05-26 17:06:25
Local clock offset: 0.159 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 54.098 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.111 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.099 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.693 ms
  Loss rate: 1.08%
Run 8: Report of SCReAM — Data Link
Run 9: Statistics of SCReAM

Start at: 2018-05-26 17:29:14
End at: 2018-05-26 17:29:44
Local clock offset: -0.076 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.571 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.592 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.545 ms
Loss rate: 1.08%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-05-26 17:52:49
End at: 2018-05-26 17:53:19
Local clock offset: -0.193 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.345 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.116 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.366 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 1.08%
Run 10: Report of SCReAM — Data Link

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

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

- Flow 1 (95th percentile 50.12 ms)
- Flow 2 (95th percentile 53.37 ms)
- Flow 3 (95th percentile 53.37 ms)
Run 1: Statistics of Sprout

Start at: 2018-05-26 14:18:20
End at: 2018-05-26 14:18:50
Local clock offset: -0.292 ms
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 53.760 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 53.859 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 50.678 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 53.748 ms
Loss rate: 1.71%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-05-26 14:41:22
End at: 2018-05-26 14:41:52
Local clock offset: 0.088 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 13.19 Mbit/s
  95th percentile per-packet one-way delay: 53.525 ms
  Loss rate: 0.62%
-- Flow 1:
 Average throughput: 6.44 Mbit/s
  95th percentile per-packet one-way delay: 53.506 ms
  Loss rate: 0.42%
-- Flow 2:
 Average throughput: 6.76 Mbit/s
  95th percentile per-packet one-way delay: 53.540 ms
  Loss rate: 0.48%
-- Flow 3:
 Average throughput: 6.92 Mbit/s
  95th percentile per-packet one-way delay: 53.544 ms
  Loss rate: 1.45%
Run 3: Statistics of Sprout

Start at: 2018-05-26 15:04:29
End at: 2018-05-26 15:04:59
Local clock offset: -0.191 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.38 Mbit/s
95th percentile per-packet one-way delay: 50.440 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 50.457 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 50.454 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 50.382 ms
Loss rate: 0.97%
Run 3: Report of Sprout — Data Link

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

![Graph 2: Per-packet one-way delay over Time](image2)
Run 4: Statistics of Sprout

End at: 2018-05-26 15:28:11
Local clock offset: 0.123 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 51.861 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 50.948 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 1.04%
Run 4: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 7.68 Mbit/s)  
Flow 1 egress (mean 7.68 Mbit/s)  
Flow 2 ingress (mean 7.98 Mbit/s)  
Flow 2 egress (mean 8.00 Mbit/s)  
Flow 3 ingress (mean 0.48 Mbit/s)  
Flow 3 egress (mean 0.48 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.95 ms)  
Flow 2 (95th percentile 53.62 ms)  
Flow 3 (95th percentile 53.91 ms)
Run 5: Statistics of Sprout

End at: 2018-05-26 15:51:54
Local clock offset: -0.38 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.20 Mbit/s
95th percentile per-packet one-way delay: 50.676 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 7.52 Mbit/s
95th percentile per-packet one-way delay: 50.564 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 7.59 Mbit/s
95th percentile per-packet one-way delay: 53.624 ms
Loss rate: 1.52%
Run 5: Report of Sprout — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 7.52 Mbps)**
- **Flow 1 egress (mean 7.52 Mbps)**
- **Flow 2 ingress (mean 6.34 Mbps)**
- **Flow 2 egress (mean 6.33 Mbps)**
- **Flow 3 ingress (mean 7.60 Mbps)**
- **Flow 3 egress (mean 7.59 Mbps)**

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

- **Flow 1 (95th percentile 50.56 ms)**
- **Flow 2 (95th percentile 50.71 ms)**
- **Flow 3 (95th percentile 53.62 ms)**

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Run 6: Statistics of Sprout

Start at: 2018-05-26 16:14:26
End at: 2018-05-26 16:14:56
Local clock offset: -0.026 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 53.509 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 53.488 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 4.88 Mbit/s
95th percentile per-packet one-way delay: 53.530 ms
Loss rate: 2.39%
Run 6: Report of Sprout — Data Link

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

Start at: 2018-05-26 16:37:31
End at: 2018-05-26 16:38:01
Local clock offset: 0.032 ms
Remote clock offset: 0.24 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 53.028 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 51.230 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 53.054 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 50.648 ms
Loss rate: 0.17%
Run 7: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 4.32 Mbit/s)
- Flow 1 egress (mean 4.32 Mbit/s)
- Flow 2 ingress (mean 6.95 Mbit/s)
- Flow 2 egress (mean 6.99 Mbit/s)
- Flow 3 ingress (mean 5.35 Mbit/s)
- Flow 3 egress (mean 5.40 Mbit/s)
Run 8: Statistics of Sprout

Start at: 2018-05-26 17:00:06
End at: 2018-05-26 17:00:36
Local clock offset: 0.059 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-05-26 20:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.86 Mbit/s
95th percentile per-packet one-way delay: 50.809 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 50.701 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 50.738 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 6.77 Mbit/s
95th percentile per-packet one-way delay: 53.224 ms
Loss rate: 0.52%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-05-26 17:23:27
End at: 2018-05-26 17:23:57
Local clock offset: 0.179 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-26 20:25:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 12.77 Mbit/s
  95th percentile per-packet one-way delay: 51.258 ms
  Loss rate: 0.31%
-- Flow 1:
  Average throughput: 5.58 Mbit/s
  95th percentile per-packet one-way delay: 51.286 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 7.48 Mbit/s
  95th percentile per-packet one-way delay: 51.367 ms
  Loss rate: 0.34%
-- Flow 3:
  Average throughput: 6.79 Mbit/s
  95th percentile per-packet one-way delay: 51.018 ms
  Loss rate: 0.20%
Run 9: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 5.58 Mbit/s)
- Flow 1 egress (mean 5.58 Mbit/s)
- Flow 2 ingress (mean 7.47 Mbit/s)
- Flow 2 egress (mean 7.46 Mbit/s)
- Flow 3 ingress (mean 6.75 Mbit/s)
- Flow 3 egress (mean 6.79 Mbit/s)
Run 10: Statistics of Sprout

Start at: 2018-05-26 17:47:05
End at: 2018-05-26 17:47:35
Local clock offset: 0.13 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-26 20:25:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.26 Mbit/s
  95th percentile per-packet one-way delay: 51.028 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 7.54 Mbit/s
  95th percentile per-packet one-way delay: 53.543 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 6.46 Mbit/s
  95th percentile per-packet one-way delay: 50.843 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 7.43 Mbit/s
  95th percentile per-packet one-way delay: 50.889 ms
  Loss rate: 0.34%
Run 10: Report of Sprout — Data Link

---

**Graph 1: Throughput**
- Flow 1 ingress (mean 7.54 Mbit/s)
- Flow 1 egress (mean 7.54 Mbit/s)
- Flow 2 ingress (mean 6.46 Mbit/s)
- Flow 2 egress (mean 6.46 Mbit/s)
- Flow 3 ingress (mean 7.40 Mbit/s)
- Flow 3 egress (mean 7.43 Mbit/s)

**Graph 2: Per packet one way delay (ms)**
- Flow 1 (95th percentile 53.54 ms)
- Flow 2 (95th percentile 50.84 ms)
- Flow 3 (95th percentile 50.89 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-26 14:27:52
End at: 2018-05-26 14:28:22
Local clock offset: -0.146 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-05-26 20:25:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.74 Mbit/s
95th percentile per-packet one-way delay: 56.335 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 68.06 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 62.17 Mbit/s
95th percentile per-packet one-way delay: 67.030 ms
Loss rate: 0.23%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-05-26 14:50:51
End at: 2018-05-26 14:51:21
Local clock offset: -0.233 ms
Remote clock offset: 0.323 ms

# Below is generated by plot.py at 2018-05-26 20:25:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 158.61 Mbit/s
  95th percentile per-packet one-way delay: 52.695 ms
  Loss rate: 1.05%
-- Flow 1:
  Average throughput: 67.65 Mbit/s
  95th percentile per-packet one-way delay: 52.545 ms
  Loss rate: 1.04%
-- Flow 2:
  Average throughput: 111.00 Mbit/s
  95th percentile per-packet one-way delay: 53.188 ms
  Loss rate: 1.23%
-- Flow 3:
  Average throughput: 51.84 Mbit/s
  95th percentile per-packet one-way delay: 51.567 ms
  Loss rate: 0.27%
Run 2: Report of TaoVA-100x — Data Link

---

**Graphs:**

1. **Throughput (Mbps):**
   - Flow 1 ingress (mean 68.13 Mbps)
   - Flow 1 egress (mean 67.65 Mbps)
   - Flow 2 ingress (mean 111.80 Mbps)
   - Flow 2 egress (mean 111.00 Mbps)
   - Flow 3 ingress (mean 51.47 Mbps)
   - Flow 3 egress (mean 51.84 Mbps)

2. **Per-packet one way delay (ms):**
   - Flow 1 (95th percentile 52.55 ms)
   - Flow 2 (95th percentile 53.19 ms)
   - Flow 3 (95th percentile 51.57 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-26 15:14:03
End at: 2018-05-26 15:14:33
Local clock offset: -0.203 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-05-26 20:25:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 142.37 Mbit/s
  95th percentile per-packet one-way delay: 54.057 ms
  Loss rate: 0.80%
-- Flow 1:
  Average throughput: 18.58 Mbit/s
  95th percentile per-packet one-way delay: 53.593 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 72.78 Mbit/s
  95th percentile per-packet one-way delay: 55.840 ms
  Loss rate: 0.38%
-- Flow 3:
  Average throughput: 228.04 Mbit/s
  95th percentile per-packet one-way delay: 50.990 ms
  Loss rate: 1.21%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

End at: 2018-05-26 15:37:52
Local clock offset: -0.226 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-26 20:30:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.68 Mbit/s
95th percentile per-packet one-way delay: 60.319 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 234.11 Mbit/s
95th percentile per-packet one-way delay: 59.405 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 188.41 Mbit/s
95th percentile per-packet one-way delay: 64.644 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 106.88 Mbit/s
95th percentile per-packet one-way delay: 53.467 ms
Loss rate: 1.15%
Run 4: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet delay over time for different flows.]
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-26 16:01:02
End at: 2018-05-26 16:01:32
Local clock offset: -0.043 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-26 20:30:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.63 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 54.191 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 153.26 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 242.27 Mbit/s
95th percentile per-packet one-way delay: 53.578 ms
Loss rate: 1.08%
Run 5: Report of TaoVA-100x — Data Link

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

Legend:
- Flow 1 ingress (mean 26.76 Mbit/s)
- Flow 1 egress (mean 26.76 Mbit/s)
- Flow 2 ingress (mean 152.63 Mbit/s)
- Flow 2 egress (mean 153.26 Mbit/s)
- Flow 3 ingress (mean 242.51 Mbit/s)
- Flow 3 egress (mean 242.27 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 54.19 ms)
- Flow 2 (95th percentile 51.22 ms)
- Flow 3 (95th percentile 53.58 ms)

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Run 6: Statistics of TaoVA-100x

End at: 2018-05-26 16:24:28
Local clock offset: -0.323 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-26 20:30:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.78 Mbit/s
95th percentile per-packet one-way delay: 54.752 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 120.74 Mbit/s
95th percentile per-packet one-way delay: 56.754 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.81 Mbit/s
95th percentile per-packet one-way delay: 52.410 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 33.20 Mbit/s
95th percentile per-packet one-way delay: 53.357 ms
Loss rate: 3.59%
Run 6: Report of TaoVA-100x — Data Link
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-26 16:47:07
End at: 2018-05-26 16:47:37
Local clock offset: 0.096 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 20:30:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.28 Mbit/s
95th percentile per-packet one-way delay: 54.446 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 14.50 Mbit/s
95th percentile per-packet one-way delay: 53.706 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 65.22 Mbit/s
95th percentile per-packet one-way delay: 55.536 ms
Loss rate: 0.09%
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 17:09:45
End at: 2018-05-26 17:10:15
Local clock offset: 0.448 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 20:31:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.03 Mbit/s
95th percentile per-packet one-way delay: 54.610 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 17.08 Mbit/s
95th percentile per-packet one-way delay: 54.118 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 240.85 Mbit/s
95th percentile per-packet one-way delay: 55.905 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 205.17 Mbit/s
95th percentile per-packet one-way delay: 52.586 ms
Loss rate: 0.30%
Run 8: Report of TaoVA-100x — Data Link

**Throughput (Mbps)**

- Flow 1 ingress (mean 17.06 Mbps)
- Flow 1 egress (mean 17.08 Mbps)
- Flow 2 ingress (mean 241.01 Mbps)
- Flow 2 egress (mean 240.85 Mbps)
- Flow 3 ingress (mean 203.67 Mbps)
- Flow 3 egress (mean 205.17 Mbps)

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

- Flow 1 (95th percentile 54.12 ms)
- Flow 2 (95th percentile 55.91 ms)
- Flow 3 (95th percentile 52.59 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 17:33:04
End at: 2018-05-26 17:33:34
Local clock offset: -0.507 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.38 Mbit/s
95th percentile per-packet one-way delay: 50.512 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 248.28 Mbit/s
95th percentile per-packet one-way delay: 50.071 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 142.32 Mbit/s
95th percentile per-packet one-way delay: 52.191 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 13.67 Mbit/s
95th percentile per-packet one-way delay: 53.525 ms
Loss rate: 1.02%
Run 9: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress** (mean 248.35 Mbit/s)
- **Flow 1 egress** (mean 248.28 Mbit/s)
- **Flow 2 ingress** (mean 141.66 Mbit/s)
- **Flow 2 egress** (mean 142.32 Mbit/s)
- **Flow 3 ingress** (mean 13.66 Mbit/s)
- **Flow 3 egress** (mean 13.67 Mbit/s)

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

- **Flow 1** (95th percentile 50.07 ms)
- **Flow 2** (95th percentile 52.19 ms)
- **Flow 3** (95th percentile 53.52 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 17:56:38
End at: 2018-05-26 17:57:08
Local clock offset: 0.153 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.92 Mbit/s
95th percentile per-packet one-way delay: 51.264 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 239.80 Mbit/s
95th percentile per-packet one-way delay: 50.486 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 54.358 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 16.03 Mbit/s
95th percentile per-packet one-way delay: 57.073 ms
Loss rate: 0.73%
Run 10: Report of TaoVA-100x — Data Link

Diagram illustrating throughput and packet loss over time for different flows.

Throughput (Mbit/s):
- Flow 1 ingress (mean 239.86 Mbit/s)
- Flow 1 egress (mean 239.80 Mbit/s)
- Flow 2 ingress (mean 13.30 Mbit/s)
- Flow 2 egress (mean 13.30 Mbit/s)
- Flow 3 ingress (mean 15.98 Mbit/s)
- Flow 3 egress (mean 16.03 Mbit/s)

Packet loss:
- Flow 1 (95th percentile 50.49 ms)
- Flow 2 (95th percentile 54.36 ms)
- Flow 3 (95th percentile 57.07 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-05-26 14:38:15
End at: 2018-05-26 14:38:45
Local clock offset: 0.353 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 183.23 Mbit/s
  95th percentile per-packet one-way delay: 52.277 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 92.83 Mbit/s
  95th percentile per-packet one-way delay: 52.110 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 97.85 Mbit/s
  95th percentile per-packet one-way delay: 52.750 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 76.76 Mbit/s
  95th percentile per-packet one-way delay: 52.159 ms
  Loss rate: 1.15%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-05-26 15:01:25
End at: 2018-05-26 15:01:55
Local clock offset: 0.157 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.13 Mbit/s
95th percentile per-packet one-way delay: 51.933 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 199.18 Mbit/s
95th percentile per-packet one-way delay: 51.889 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 82.67 Mbit/s
95th percentile per-packet one-way delay: 52.076 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 51.971 ms
Loss rate: 2.03%
Run 2: Report of TCP Vegas — Data Link

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

End at: 2018-05-26 15:25:11
Local clock offset: 0.531 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 283.23 Mbit/s
  95th percentile per-packet one-way delay: 57.786 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 134.47 Mbit/s
  95th percentile per-packet one-way delay: 57.745 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 221.52 Mbit/s
  95th percentile per-packet one-way delay: 57.831 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 5.33 Mbit/s
  95th percentile per-packet one-way delay: 57.898 ms
  Loss rate: 2.00%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

End at: 2018-05-26 15:48:49
Local clock offset: -0.134 ms
Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.87 Mbit/s
95th percentile per-packet one-way delay: 51.894 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 158.50 Mbit/s
95th percentile per-packet one-way delay: 51.508 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 52.415 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 115.48 Mbit/s
95th percentile per-packet one-way delay: 53.878 ms
Loss rate: 1.06%
Run 4: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 158.52 Mbit/s)
- Flow 1 egress (mean 158.50 Mbit/s)
- Flow 2 ingress (mean 59.18 Mbit/s)
- Flow 2 egress (mean 59.20 Mbit/s)
- Flow 3 ingress (mean 115.55 Mbit/s)
- Flow 3 egress (mean 115.48 Mbit/s)
Run 5: Statistics of TCP Vegas

Start at: 2018-05-26 16:11:35
End at: 2018-05-26 16:12:05
Local clock offset: 0.217 ms
Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.62 Mbit/s
95th percentile per-packet one-way delay: 58.384 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 220.92 Mbit/s
95th percentile per-packet one-way delay: 58.385 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 64.57 Mbit/s
95th percentile per-packet one-way delay: 58.459 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 57.588 ms
Loss rate: 1.47%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-05-26 16:34:41
End at: 2018-05-26 16:35:11
Local clock offset: 0.176 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.61 Mbit/s
95th percentile per-packet one-way delay: 52.641 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 161.20 Mbit/s
95th percentile per-packet one-way delay: 52.400 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 11.45 Mbit/s
95th percentile per-packet one-way delay: 51.418 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 69.17 Mbit/s
95th percentile per-packet one-way delay: 57.312 ms
Loss rate: 1.08%
Run 7: Statistics of TCP Vegas

Start at: 2018-05-26 16:57:25
End at: 2018-05-26 16:57:55
Local clock offset: 0.332 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-05-26 20:34:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 115.43 Mbit/s
  95th percentile per-packet one-way delay: 52.232 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 78.10 Mbit/s
  95th percentile per-packet one-way delay: 52.034 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 11.12 Mbit/s
  95th percentile per-packet one-way delay: 51.180 ms
  Loss rate: 1.07%
-- Flow 3:
  Average throughput: 90.86 Mbit/s
  95th percentile per-packet one-way delay: 53.279 ms
  Loss rate: 1.11%
Run 7: Report of TCP Vegas — Data Link

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

![Graph 2: Per-packet one-way delay over Time](image2)
Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 17:20:28
End at: 2018-05-26 17:20:58
Local clock offset: -0.027 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2018-05-26 20:36:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.19 Mbit/s
95th percentile per-packet one-way delay: 57.282 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 155.81 Mbit/s
95th percentile per-packet one-way delay: 56.557 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 199.19 Mbit/s
95th percentile per-packet one-way delay: 57.819 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 55.434 ms
Loss rate: 1.12%
Run 8: Report of TCP Vegas — Data Link

![Graph showing throughput and latency](image-url)
Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 17:44:01
End at: 2018-05-26 17:44:31
Local clock offset: -0.272 ms
Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2018-05-26 20:36:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.16 Mbit/s
95th percentile per-packet one-way delay: 57.785 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 62.48 Mbit/s
95th percentile per-packet one-way delay: 51.927 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 80.86 Mbit/s
95th percentile per-packet one-way delay: 55.388 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 221.71 Mbit/s
95th percentile per-packet one-way delay: 59.659 ms
Loss rate: 1.14%
Run 9: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 18:07:25
End at: 2018-05-26 18:07:55
Local clock offset: -0.203 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-05-26 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 349.27 Mbit/s
  95th percentile per-packet one-way delay: 58.544 ms
  Loss rate: 0.60%
  -- Flow 1:
  Average throughput: 128.76 Mbit/s
  95th percentile per-packet one-way delay: 57.434 ms
  Loss rate: 0.34%
  -- Flow 2:
  Average throughput: 226.88 Mbit/s
  95th percentile per-packet one-way delay: 58.746 ms
  Loss rate: 0.55%
  -- Flow 3:
  Average throughput: 211.67 Mbit/s
  95th percentile per-packet one-way delay: 59.673 ms
  Loss rate: 1.17%
Run 10: Report of TCP Vegas — Data Link

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

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 128.75 Mbit/s) — Flow 1 egress (mean 128.76 Mbit/s)
Flow 2 ingress (mean 226.93 Mbit/s) — Flow 2 egress (mean 226.88 Mbit/s)
Flow 3 ingress (mean 211.92 Mbit/s) — Flow 3 egress (mean 211.67 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 57.43 ms) — Flow 2 (95th percentile 58.75 ms) — Flow 3 (95th percentile 59.67 ms)
Run 1: Statistics of Verus

End at: 2018-05-26 14:23:02
Local clock offset: 0.15 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-05-26 20:39:54
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 377.95 Mbit/s
 95th percentile per-packet one-way delay: 123.677 ms
 Loss rate: 0.65%
-- Flow 1:
 Average throughput: 235.20 Mbit/s
 95th percentile per-packet one-way delay: 115.668 ms
 Loss rate: 0.57%
-- Flow 2:
 Average throughput: 176.34 Mbit/s
 95th percentile per-packet one-way delay: 125.348 ms
 Loss rate: 0.51%
-- Flow 3:
 Average throughput: 85.96 Mbit/s
 95th percentile per-packet one-way delay: 134.228 ms
 Loss rate: 1.98%
Run 1: Report of Verus — Data Link

![Graph showing throughput and per-packet one-way delay for different flows.](image-url)
Run 2: Statistics of Verus

Start at: 2018-05-26 14:45:36
End at: 2018-05-26 14:46:06
Local clock offset: -0.272 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2018-05-26 20:39:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.85 Mbit/s
95th percentile per-packet one-way delay: 129.472 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 190.87 Mbit/s
95th percentile per-packet one-way delay: 116.878 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 134.25 Mbit/s
95th percentile per-packet one-way delay: 138.633 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 151.90 Mbit/s
95th percentile per-packet one-way delay: 134.653 ms
Loss rate: 1.53%
Run 2: Report of Verus — Data Link

![Graph 1: Throughput vs. Time]

- Flow 1 ingress (mean 191.54 Mbit/s)
- Flow 1 egress (mean 190.87 Mbit/s)
- Flow 2 ingress (mean 133.75 Mbit/s)
- Flow 2 egress (mean 134.25 Mbit/s)
- Flow 3 ingress (mean 152.66 Mbit/s)
- Flow 3 egress (mean 151.90 Mbit/s)

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

- Flow 1 (95th percentile 116.88 ms)
- Flow 2 (95th percentile 138.63 ms)
- Flow 3 (95th percentile 134.65 ms)
Run 3: Statistics of Verus

Start at: 2018-05-26 15:08:42
End at: 2018-05-26 15:09:12
Local clock offset: 0.053 ms
Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2018-05-26 20:40:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 373.21 Mbit/s
  95th percentile per-packet one-way delay: 133.366 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 210.53 Mbit/s
  95th percentile per-packet one-way delay: 109.875 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 179.23 Mbit/s
  95th percentile per-packet one-way delay: 145.327 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 133.28 Mbit/s
  95th percentile per-packet one-way delay: 159.053 ms
  Loss rate: 2.30%
Run 3: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 210.89 Mbit/s)
- Flow 1 egress (mean 210.53 Mbit/s)
- Flow 2 ingress (mean 179.17 Mbit/s)
- Flow 2 egress (mean 179.23 Mbit/s)
- Flow 3 ingress (mean 134.21 Mbit/s)
- Flow 3 egress (mean 133.28 Mbit/s)

Legend for packet delay:
- Flow 1 (95th percentile 109.88 ms)
- Flow 2 (95th percentile 145.33 ms)
- Flow 3 (95th percentile 159.05 ms)
Run 4: Statistics of Verus

Start at: 2018-05-26 15:31:54
End at: 2018-05-26 15:32:24
Local clock offset: 0.062 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-26 20:41:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.75 Mbit/s
95th percentile per-packet one-way delay: 263.318 ms
Loss rate: 7.10%
-- Flow 1:
Average throughput: 294.45 Mbit/s
95th percentile per-packet one-way delay: 267.176 ms
Loss rate: 7.10%
-- Flow 2:
Average throughput: 84.14 Mbit/s
95th percentile per-packet one-way delay: 165.290 ms
Loss rate: 3.58%
-- Flow 3:
Average throughput: 107.74 Mbit/s
95th percentile per-packet one-way delay: 175.011 ms
Loss rate: 12.21%
Run 4: Report of Verus — Data Link

![Graph showing network performance metrics over time.

Throughput (Mbps):
- Flow 1 ingress (mean 313.73 Mbps)
- Flow 2 ingress (mean 86.64 Mbps)
- Flow 3 ingress (mean 121.46 Mbps)
- Flow 1 egress (mean 294.45 Mbps)
- Flow 2 egress (mean 84.14 Mbps)
- Flow 3 egress (mean 107.74 Mbps)

Per-packet one-way delay (ms):
- Flow 1 (95th percentile 267.18 ms)
- Flow 2 (95th percentile 165.29 ms)
- Flow 3 (95th percentile 175.01 ms)
Run 5: Statistics of Verus

End at: 2018-05-26 15:56:08
Local clock offset: -0.376 ms
Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2018-05-26 20:42:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 388.65 Mbit/s
  95th percentile per-packet one-way delay: 108.548 ms
  Loss rate: 1.05%
-- Flow 1:
  Average throughput: 249.66 Mbit/s
  95th percentile per-packet one-way delay: 100.867 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 149.63 Mbit/s
  95th percentile per-packet one-way delay: 114.325 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 120.68 Mbit/s
  95th percentile per-packet one-way delay: 139.705 ms
  Loss rate: 2.57%
Run 5: Report of Verus — Data Link

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

- Flow 1 ingress (mean 251.64 Mbps)
- Flow 1 egress (mean 249.66 Mbps)
- Flow 2 ingress (mean 149.89 Mbps)
- Flow 2 egress (mean 149.63 Mbps)
- Flow 3 ingress (mean 122.64 Mbps)
- Flow 3 egress (mean 120.68 Mbps)

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

- Flow 1 (95th percentile 100.87 ms)
- Flow 2 (95th percentile 114.33 ms)
- Flow 3 (95th percentile 119.71 ms)
Run 6: Statistics of Verus

Start at: 2018-05-26 16:18:37
End at: 2018-05-26 16:19:07
Local clock offset: -0.062 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-05-26 20:42:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.38 Mbit/s
95th percentile per-packet one-way delay: 165.136 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 264.78 Mbit/s
95th percentile per-packet one-way delay: 166.621 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 111.58 Mbit/s
95th percentile per-packet one-way delay: 171.083 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 89.84 Mbit/s
95th percentile per-packet one-way delay: 136.556 ms
Loss rate: 2.97%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-05-26 16:41:46
End at: 2018-05-26 16:42:16
Local clock offset: 0.434 ms
Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-05-26 20:44:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.89 Mbit/s
95th percentile per-packet one-way delay: 115.805 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 222.11 Mbit/s
95th percentile per-packet one-way delay: 104.344 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 150.47 Mbit/s
95th percentile per-packet one-way delay: 112.725 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 126.86 Mbit/s
95th percentile per-packet one-way delay: 151.249 ms
Loss rate: 2.38%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-05-26 17:04:23
End at: 2018-05-26 17:04:53
Local clock offset: -0.04 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-05-26 20:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.27 Mbit/s
95th percentile per-packet one-way delay: 167.857 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 251.18 Mbit/s
95th percentile per-packet one-way delay: 172.820 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 115.03 Mbit/s
95th percentile per-packet one-way delay: 131.430 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 97.20 Mbit/s
95th percentile per-packet one-way delay: 182.098 ms
Loss rate: 0.86%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-05-26 17:27:40
End at: 2018-05-26 17:28:10
Local clock offset: 0.028 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-05-26 20:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.60 Mbit/s
95th percentile per-packet one-way delay: 173.054 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 203.79 Mbit/s
95th percentile per-packet one-way delay: 155.601 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 203.29 Mbit/s
95th percentile per-packet one-way delay: 198.116 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 139.58 Mbit/s
95th percentile per-packet one-way delay: 123.863 ms
Loss rate: 2.13%
Run 9: Report of Verus — Data Link

![Network throughput and delay graphs for different flows]

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Run 10: Statistics of Verus

Start at: 2018-05-26 17:51:20
End at: 2018-05-26 17:51:50
Local clock offset: 0.081 ms
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2018-05-26 20:46:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 304.44 Mbit/s
  95th percentile per-packet one-way delay: 105.092 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 144.15 Mbit/s
  95th percentile per-packet one-way delay: 123.762 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 191.67 Mbit/s
  95th percentile per-packet one-way delay: 80.372 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 100.44 Mbit/s
  95th percentile per-packet one-way delay: 110.864 ms
  Loss rate: 0.33%
Run 10: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-26 14:33:01
End at: 2018-05-26 14:33:31
Local clock offset: 0.439 ms
Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2018-05-26 20:50:42
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 522.85 Mbit/s
    95th percentile per-packet one-way delay: 54.223 ms
    Loss rate: 0.45%
-- Flow 1:
    Average throughput: 308.14 Mbit/s
    95th percentile per-packet one-way delay: 57.365 ms
    Loss rate: 0.17%
-- Flow 2:
    Average throughput: 279.04 Mbit/s
    95th percentile per-packet one-way delay: 53.748 ms
    Loss rate: 0.74%
-- Flow 3:
    Average throughput: 90.00 Mbit/s
    95th percentile per-packet one-way delay: 51.050 ms
    Loss rate: 1.51%
Run 1: Report of PCC-Vivace — Data Link

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

- **Flow 1**
  - Ingress: Mean 307.59 Mbit/s
  - Egress: Mean 308.14 Mbit/s

- **Flow 2**
  - Ingress: Mean 279.68 Mbit/s
  - Egress: Mean 279.04 Mbit/s

- **Flow 3**
  - Ingress: Mean 90.43 Mbit/s
  - Egress: Mean 90.00 Mbit/s

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

- **Flow 1** 95th percentile: 57.37 ms
- **Flow 2** 95th percentile: 53.75 ms
- **Flow 3** 95th percentile: 51.05 ms

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Run 2: Statistics of PCC-Vivace

Start at: 2018-05-26 14:56:01
End at: 2018-05-26 14:56:31
Local clock offset: -0.112 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-05-26 20:52:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 601.88 Mbit/s
95th percentile per-packet one-way delay: 55.713 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 350.39 Mbit/s
95th percentile per-packet one-way delay: 56.827 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 340.70 Mbit/s
95th percentile per-packet one-way delay: 54.389 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 1.23%
Run 2: Report of PCC-Vivace — Data Link

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**Graph 1: Throughput vs Time**

- **Throughput (Mbps)**
- **Time (s)**

Legend:
- Flow 1 ingress (mean 349.88 Mbps)
- Flow 1 egress (mean 350.39 Mbps)
- Flow 2 ingress (mean 340.77 Mbps)
- Flow 2 egress (mean 340.79 Mbps)
- Flow 3 ingress (mean 77.08 Mbps)
- Flow 3 egress (mean 76.96 Mbps)

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**Graph 2: Per-packet one-way delay vs Time**

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

Legend:
- Flow 1 (95th percentile 56.83 ms)
- Flow 2 (95th percentile 54.39 ms)
- Flow 3 (95th percentile 53.92 ms)

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Run 3: Statistics of PCC-Vivace

End at: 2018-05-26 15:19:43
Local clock offset: 0.105 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 20:53:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 616.16 Mbit/s
  95th percentile per-packet one-way delay: 66.205 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 356.35 Mbit/s
  95th percentile per-packet one-way delay: 67.649 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 255.38 Mbit/s
  95th percentile per-packet one-way delay: 53.973 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 275.39 Mbit/s
  95th percentile per-packet one-way delay: 117.424 ms
  Loss rate: 1.46%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Local clock offset: -0.228 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-26 20:54:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 612.78 Mbit/s
95th percentile per-packet one-way delay: 64.321 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 349.70 Mbit/s
95th percentile per-packet one-way delay: 56.545 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 260.51 Mbit/s
95th percentile per-packet one-way delay: 56.179 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 274.97 Mbit/s
95th percentile per-packet one-way delay: 94.285 ms
Loss rate: 0.91%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-26 16:06:18
End at: 2018-05-26 16:06:48
Local clock offset: -0.115 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-26 20:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.45 Mbit/s
95th percentile per-packet one-way delay: 98.330 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 330.91 Mbit/s
95th percentile per-packet one-way delay: 80.707 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 253.50 Mbit/s
95th percentile per-packet one-way delay: 116.403 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 49.55 Mbit/s
95th percentile per-packet one-way delay: 50.277 ms
Loss rate: 2.20%
Run 5: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 330.88 Mbit/s)
- Flow 1 egress (mean 330.91 Mbit/s)
- Flow 2 ingress (mean 253.40 Mbit/s)
- Flow 2 egress (mean 253.50 Mbit/s)
- Flow 3 ingress (mean 50.15 Mbit/s)
- Flow 3 egress (mean 49.55 Mbit/s)

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

- Flow 1 (95th percentile 80.71 ms)
- Flow 2 (95th percentile 116.40 ms)
- Flow 3 (95th percentile 50.28 ms)
Run 6: Statistics of PCC-Vivace

End at: 2018-05-26 16:29:43
Local clock offset: 0.314 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-05-26 20:56:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 617.30 Mbit/s
  95th percentile per-packet one-way delay: 59.232 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 353.57 Mbit/s
  95th percentile per-packet one-way delay: 56.958 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 302.13 Mbit/s
  95th percentile per-packet one-way delay: 62.116 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 192.23 Mbit/s
  95th percentile per-packet one-way delay: 52.191 ms
  Loss rate: 1.52%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-26 16:52:05
End at: 2018-05-26 16:52:35
Local clock offset: 0.103 ms
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-05-26 20:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.33 Mbit/s
95th percentile per-packet one-way delay: 56.350 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 282.34 Mbit/s
95th percentile per-packet one-way delay: 56.343 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 337.58 Mbit/s
95th percentile per-packet one-way delay: 56.631 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 50.687 ms
Loss rate: 1.26%
Run 7: Report of PCC-Vivace — Data Link

[Graph showing throughput over time for different flows and their ingress and egress speeds]

[Graph showing per-packet one-way delay over time for different flows and their 95th percentile delays]

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Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 17:14:56
End at: 2018-05-26 17:15:26
Local clock offset: -0.294 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-05-26 20:56:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 571.64 Mbit/s
95th percentile per-packet one-way delay: 69.476 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 333.66 Mbit/s
95th percentile per-packet one-way delay: 71.896 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 278.37 Mbit/s
95th percentile per-packet one-way delay: 84.026 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 162.39 Mbit/s
95th percentile per-packet one-way delay: 54.385 ms
Loss rate: 1.83%
Run 8: Report of PCC-Vivace — Data Link

[Graph showing throughput and packet loss over time for different flows with their respective mean speeds and 95th percentile delay values]
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 17:38:30
End at: 2018-05-26 17:39:00
Local clock offset: -0.06 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2018-05-26 20:57:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.57 Mbit/s
95th percentile per-packet one-way delay: 73.494 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 324.95 Mbit/s
95th percentile per-packet one-way delay: 79.108 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 328.08 Mbit/s
95th percentile per-packet one-way delay: 66.621 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 51.36 Mbit/s
95th percentile per-packet one-way delay: 54.202 ms
Loss rate: 1.47%
Run 9: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 324.74 Mbit/s)
- Flow 1 egress (mean 324.95 Mbit/s)
- Flow 2 ingress (mean 328.00 Mbit/s)
- Flow 2 egress (mean 328.08 Mbit/s)
- Flow 3 ingress (mean 51.57 Mbit/s)
- Flow 3 egress (mean 51.36 Mbit/s)

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

- Flow 1 (95th percentile 79.11 ms)
- Flow 2 (95th percentile 66.62 ms)
- Flow 3 (95th percentile 54.20 ms)
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 18:01:54
End at: 2018-05-26 18:02:24
Local clock offset: 0.395 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 588.86 Mbit/s
  95th percentile per-packet one-way delay: 89.255 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 350.25 Mbit/s
  95th percentile per-packet one-way delay: 52.622 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 347.67 Mbit/s
  95th percentile per-packet one-way delay: 99.731 ms
  Loss rate: 0.39%
-- Flow 3:
  Average throughput: 23.97 Mbit/s
  95th percentile per-packet one-way delay: 54.099 ms
  Loss rate: 1.34%
Run 10: Report of PCC-Vivace — Data Link

[Graph showing throughput and packet loss over time with legends indicating flow rates and delays for each flow.]
Run 1: Statistics of WebRTC media

Start at: 2018-05-26 14:29:15
End at: 2018-05-26 14:29:45
Local clock offset: -0.038 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 53.601 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.07 Mbit/s
  95th percentile per-packet one-way delay: 53.678 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.591 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.485 ms
  Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-05-26 14:52:16
End at: 2018-05-26 14:52:46
Local clock offset: -0.146 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.360 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.355 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.05 Mbps)
Flow 1 egress (mean 0.05 Mbps)
Flow 2 ingress (mean 0.05 Mbps)
Flow 2 egress (mean 0.05 Mbps)
Flow 3 ingress (mean 0.05 Mbps)
Flow 3 egress (mean 0.05 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.36 ms)
Flow 2 (95th percentile 50.35 ms)
Flow 3 (95th percentile 53.64 ms)
Run 3: Statistics of WebRTC media

Start at: 2018-05-26 15:15:24
End at: 2018-05-26 15:15:54
Local clock offset: -0.068 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 61.447 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.830 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.330 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-05-26 15:39:09
Local clock offset: -0.236 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.165 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.418 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-05-26 16:02:29
End at: 2018-05-26 16:02:59
Local clock offset: -0.047 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 0.14 Mbit/s
    95th percentile per-packet one-way delay: 53.691 ms
    Loss rate: 0.00%
-- Flow 1:
    Average throughput: 0.05 Mbit/s
    95th percentile per-packet one-way delay: 50.556 ms
    Loss rate: 0.00%
-- Flow 2:
    Average throughput: 0.05 Mbit/s
    95th percentile per-packet one-way delay: 53.666 ms
    Loss rate: 0.00%
-- Flow 3:
    Average throughput: 0.05 Mbit/s
    95th percentile per-packet one-way delay: 53.734 ms
    Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Throughput Graph]

![Packet Loss Graph]
Run 6: Statistics of WebRTC media

Start at: 2018-05-26 16:25:30
End at: 2018-05-26 16:26:00
Local clock offset: 0.206 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.015 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.894 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.951 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

Diagram 1: Throughput (Mbps)

Diagram 2: Per-packet one-way delay (ms)

Legend:
- Flow 1 ingress (mean 0.05 Mbit/s)
- Flow 1 egress (mean 0.05 Mbit/s)
- Flow 2 ingress (mean 0.05 Mbit/s)
- Flow 2 egress (mean 0.05 Mbit/s)
- Flow 3 ingress (mean 0.05 Mbit/s)
- Flow 3 egress (mean 0.05 Mbit/s)

Flow 1 (95th percentile 51.02 ms)
Flow 2 (95th percentile 53.89 ms)
Flow 3 (95th percentile 53.95 ms)
Run 7: Statistics of WebRTC media

End at: 2018-05-26 16:48:50
Local clock offset: -0.155 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.573 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 8: Statistics of WebRTC media

Start at: 2018-05-26 17:11:15
End at: 2018-05-26 17:11:45
Local clock offset: 0.33 ms
Remote clock offset: -0.315 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 54.138 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.137 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 51.317 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.180 ms
  Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

Start at: 2018-05-26 17:34:43
End at: 2018-05-26 17:35:13
Local clock offset: -0.045 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.655 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-05-26 17:58:10
End at: 2018-05-26 17:58:40
Local clock offset: 0.06 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2018-05-26 20:57:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.445 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.665 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.854 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

[Graphs showing throughput and per-packet one-way delay over time for flows 1 to 3, each with different ingress and egress data rates and 95th percentile delays.]