Pantheon Report

Data path: GCE London 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 @ c7966e494a929986eaa5a9c169a7f381fe1b7be5
third_party/indigo @ 2601c92e4aa9d58d38dc44fe0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b2179eaaab4a906ce6bb7c3fcf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8a08f92c4eb24f974ab
third_party/proto-quic @ 77961f1a8273a86b42f1bc8143ec978f3c3f42
third_party/scream-reproduce @ f099118d1421a3131bf11f1964974e1da3b3db2
third_party/sprout @ c838669682f0c19f6ba92af9ca598e40648c1f
third_party/verus @ d4b447ea74c6c60a261149af2b29562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c50487f5df74
third_party/webrtc @ 3f0cc2a9061a41b6f9d9de4738770d143a1fa2851
test from GCE London to GCE Sydney, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
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<td>PCC-Expr</td>
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<td>279.11</td>
<td>163.15</td>
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<td>PCC-Vivace</td>
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<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
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</table>
Run 1: Statistics of TCP BBR

End at: 2018-05-25 14:49:08
Local clock offset: 0.151 ms
Remote clock offset: -0.639 ms

# Below is generated by plot.py at 2018-05-25 19:03:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 143.39 Mbit/s
  95th percentile per-packet one-way delay: 136.438 ms
  Loss rate: 1.54%
-- Flow 1:
  Average throughput: 75.09 Mbit/s
  95th percentile per-packet one-way delay: 136.440 ms
  Loss rate: 1.02%
-- Flow 2:
  Average throughput: 71.29 Mbit/s
  95th percentile per-packet one-way delay: 136.450 ms
  Loss rate: 1.55%
-- Flow 3:
  Average throughput: 64.47 Mbit/s
  95th percentile per-packet one-way delay: 136.371 ms
  Loss rate: 3.33%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

End at: 2018-05-25 15:14:05
Local clock offset: -0.254 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-05-25 19:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 143.30 Mbit/s
  95th percentile per-packet one-way delay: 135.842 ms
  Loss rate: 1.60%
-- Flow 1:
  Average throughput: 74.22 Mbit/s
  95th percentile per-packet one-way delay: 135.771 ms
  Loss rate: 0.96%
-- Flow 2:
  Average throughput: 70.40 Mbit/s
  95th percentile per-packet one-way delay: 135.787 ms
  Loss rate: 1.66%
-- Flow 3:
  Average throughput: 69.04 Mbit/s
  95th percentile per-packet one-way delay: 135.997 ms
  Loss rate: 3.54%
Run 2: Report of TCP BBR — Data Link

![Graph showing network performance metrics]

- Throughput (Mbps)
- Time (s)
- Flow 1 ingress (mean 74.26 Mbps)
- Flow 1 egress (mean 74.22 Mbps)
- Flow 2 ingress (mean 70.53 Mbps)
- Flow 2 egress (mean 70.40 Mbps)
- Flow 3 ingress (mean 69.57 Mbps)
- Flow 3 egress (mean 69.04 Mbps)

![Graph showing ping round-trip time]

- One-way delay (ms)
- Time (s)
- Flow 1 (95th percentile 135.77 ms)
- Flow 2 (95th percentile 135.79 ms)
- Flow 3 (95th percentile 136.00 ms)
Run 3: Statistics of TCP BBR

Local clock offset: 0.134 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-05-25 19:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 142.31 Mbit/s
  95th percentile per-packet one-way delay: 136.023 ms
  Loss rate: 1.53%
-- Flow 1:
  Average throughput: 74.38 Mbit/s
  95th percentile per-packet one-way delay: 135.997 ms
  Loss rate: 1.04%
-- Flow 2:
  Average throughput: 70.83 Mbit/s
  95th percentile per-packet one-way delay: 136.057 ms
  Loss rate: 1.52%
-- Flow 3:
  Average throughput: 64.34 Mbit/s
  95th percentile per-packet one-way delay: 136.025 ms
  Loss rate: 3.24%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-05-25 16:04:04
End at: 2018-05-25 16:04:34
Local clock offset: 0.117 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-05-25 19:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.03 Mbit/s
95th percentile per-packet one-way delay: 135.252 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 74.31 Mbit/s
95th percentile per-packet one-way delay: 135.246 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 70.36 Mbit/s
95th percentile per-packet one-way delay: 135.253 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 64.72 Mbit/s
95th percentile per-packet one-way delay: 135.274 ms
Loss rate: 3.60%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

End at: 2018-05-25 16:29:29
Local clock offset: 0.118 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-05-25 19:03:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 145.31 Mbit/s
  95th percentile per-packet one-way delay: 136.226 ms
  Loss rate: 1.46%
-- Flow 1:
  Average throughput: 77.58 Mbit/s
  95th percentile per-packet one-way delay: 136.199 ms
  Loss rate: 0.92%
-- Flow 2:
  Average throughput: 70.40 Mbit/s
  95th percentile per-packet one-way delay: 136.211 ms
  Loss rate: 1.52%
-- Flow 3:
  Average throughput: 64.50 Mbit/s
  95th percentile per-packet one-way delay: 136.316 ms
  Loss rate: 3.28%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-05-25 16:54:11
End at: 2018-05-25 16:54:41
Local clock offset: -0.047 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-05-25 19:03:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 147.25 Mbit/s
  95th percentile per-packet one-way delay: 135.922 ms
  Loss rate: 1.51%
-- Flow 1:
  Average throughput: 76.69 Mbit/s
  95th percentile per-packet one-way delay: 135.965 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 72.29 Mbit/s
  95th percentile per-packet one-way delay: 135.861 ms
  Loss rate: 1.54%
-- Flow 3:
  Average throughput: 69.47 Mbit/s
  95th percentile per-packet one-way delay: 135.267 ms
  Loss rate: 3.38%
Run 7: Statistics of TCP BBR

Start at: 2018-05-25 17:19:21
End at: 2018-05-25 17:19:51
Local clock offset: 0.199 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-05-25 19:04:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 152.58 Mbit/s
  95th percentile per-packet one-way delay: 135.755 ms
  Loss rate: 1.47%
-- Flow 1:
  Average throughput: 81.27 Mbit/s
  95th percentile per-packet one-way delay: 135.531 ms
  Loss rate: 1.01%
-- Flow 2:
  Average throughput: 74.91 Mbit/s
  95th percentile per-packet one-way delay: 135.832 ms
  Loss rate: 1.45%
-- Flow 3:
  Average throughput: 67.22 Mbit/s
  95th percentile per-packet one-way delay: 136.869 ms
  Loss rate: 3.19%
Run 7: Report of TCP BBR — Data Link
Run 8: Statistics of TCP BBR

Start at: 2018-05-25 17:44:46
End at: 2018-05-25 17:45:16
Local clock offset: -0.074 ms
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2018-05-25 19:04:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.11 Mbit/s
95th percentile per-packet one-way delay: 136.389 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 73.77 Mbit/s
95th percentile per-packet one-way delay: 136.319 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 66.77 Mbit/s
95th percentile per-packet one-way delay: 136.581 ms
Loss rate: 3.23%
Run 8: Report of TCP BBR — Data Link

![Throughput Graph](image)

![Delay Graph](image)

Legend:
- Flow 1 ingress (mean 73.84 Mbit/s)
- Flow 1 egress (mean 73.77 Mbit/s)
- Flow 2 ingress (mean 70.58 Mbit/s)
- Flow 2 egress (mean 70.45 Mbit/s)
- Flow 3 ingress (mean 67.37 Mbit/s)
- Flow 3 egress (mean 66.77 Mbit/s)

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Run 9: Statistics of TCP BBR

Start at: 2018-05-25 18:10:04
End at: 2018-05-25 18:10:34
Local clock offset: 0.183 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-05-25 19:06:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 151.23 Mbit/s
  95th percentile per-packet one-way delay: 136.292 ms
  Loss rate: 1.11%
-- Flow 1:
  Average throughput: 77.15 Mbit/s
  95th percentile per-packet one-way delay: 136.275 ms
  Loss rate: 0.14%
-- Flow 2:
  Average throughput: 78.94 Mbit/s
  95th percentile per-packet one-way delay: 136.322 ms
  Loss rate: 1.56%
-- Flow 3:
  Average throughput: 67.30 Mbit/s
  95th percentile per-packet one-way delay: 136.377 ms
  Loss rate: 3.38%
Run 9: Report of TCP BBR — Data Link

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

- **Flow 1 ingress (mean 77.01 Mbit/s)**
- **Flow 1 egress (mean 77.15 Mbit/s)**
- **Flow 2 ingress (mean 79.07 Mbit/s)**
- **Flow 2 egress (mean 78.94 Mbit/s)**
- **Flow 3 ingress (mean 67.90 Mbit/s)**
- **Flow 3 egress (mean 67.30 Mbit/s)**

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

- **Flow 1 (95th percentile 136.28 ms)**
- **Flow 2 (95th percentile 136.32 ms)**
- **Flow 3 (95th percentile 136.38 ms)**
Run 10: Statistics of TCP BBR

Start at: 2018-05-25 18:35:21
End at: 2018-05-25 18:35:51
Local clock offset: 0.021 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2018-05-25 19:06:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.15 Mbit/s
95th percentile per-packet one-way delay: 134.766 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 74.05 Mbit/s
95th percentile per-packet one-way delay: 134.750 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 70.77 Mbit/s
95th percentile per-packet one-way delay: 134.763 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 65.00 Mbit/s
95th percentile per-packet one-way delay: 134.815 ms
Loss rate: 3.45%
Run 10: Report of TCP BBR — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 74.10 Mbps)  Flow 1 egress (mean 74.05 Mbps)
Flow 2 ingress (mean 70.88 Mbps)  Flow 2 egress (mean 70.77 Mbps)
Flow 3 ingress (mean 65.43 Mbps)  Flow 3 egress (mean 65.00 Mbps)

Delay (ms)

Time (s)

Flow 1 (95th percentile 134.75 ms)  Flow 2 (95th percentile 134.76 ms)  Flow 3 (95th percentile 134.81 ms)
Run 1: Statistics of Copa

End at: 2018-05-25 14:38:06
Local clock offset: 0.282 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 323.97 Mbit/s
  95th percentile per-packet one-way delay: 150.984 ms
  Loss rate: 1.28%
-- Flow 1:
  Average throughput: 105.93 Mbit/s
  95th percentile per-packet one-way delay: 148.691 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 306.83 Mbit/s
  95th percentile per-packet one-way delay: 151.454 ms
  Loss rate: 1.68%
-- Flow 3:
  Average throughput: 44.78 Mbit/s
  95th percentile per-packet one-way delay: 149.338 ms
  Loss rate: 2.98%
Run 1: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 105.23 Mbps)**
- **Flow 1 egress (mean 105.93 Mbps)**
- **Flow 2 ingress (mean 307.83 Mbps)**
- **Flow 2 egress (mean 306.83 Mbps)**
- **Flow 3 ingress (mean 44.88 Mbps)**
- **Flow 3 egress (mean 44.78 Mbps)**

![Graph 2: Per-packet loss rate (error)]

- **Flow 1 (95th percentile 148.69 ms)**
- **Flow 2 (95th percentile 151.45 ms)**
- **Flow 3 (95th percentile 149.34 ms)**
Run 2: Statistics of Copa

Start at: 2018-05-25 15:02:40
End at: 2018-05-25 15:03:10
Local clock offset: -0.228 ms
Remote clock offset: -0.654 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 300.47 Mbit/s
  95th percentile per-packet one-way delay: 147.218 ms
  Loss rate: 1.16%
-- Flow 1:
  Average throughput: 180.91 Mbit/s
  95th percentile per-packet one-way delay: 146.637 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 132.01 Mbit/s
  95th percentile per-packet one-way delay: 144.316 ms
  Loss rate: 0.90%
-- Flow 3:
  Average throughput: 194.84 Mbit/s
  95th percentile per-packet one-way delay: 156.213 ms
  Loss rate: 4.12%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Local clock offset: 0.109 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 217.82 Mbit/s
95th percentile per-packet one-way delay: 163.711 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 203.25 Mbit/s
95th percentile per-packet one-way delay: 171.273 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 112.77 Mbit/s
95th percentile per-packet one-way delay: 144.341 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 134.81 Mbit/s
95th percentile per-packet one-way delay: 166.724 ms
Loss rate: 2.80%
Run 3: Report of Copa — Data Link

[Graphs showing network throughput and packet delay over time]
Run 4: Statistics of Copa

Local clock offset: -0.046 ms
Remote clock offset: -0.631 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.49 Mbit/s
95th percentile per-packet one-way delay: 144.831 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 156.55 Mbit/s
95th percentile per-packet one-way delay: 146.984 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 123.16 Mbit/s
95th percentile per-packet one-way delay: 142.732 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 83.73 Mbit/s
95th percentile per-packet one-way delay: 145.202 ms
Loss rate: 2.96%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

End at: 2018-05-25 16:18:34
Local clock offset: -0.119 ms
Remote clock offset: -0.599 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 301.64 Mbit/s
  95th percentile per-packet one-way delay: 167.337 ms
  Loss rate: 1.61%
-- Flow 1:
  Average throughput: 102.15 Mbit/s
  95th percentile per-packet one-way delay: 140.580 ms
  Loss rate: 1.42%
-- Flow 2:
  Average throughput: 270.96 Mbit/s
  95th percentile per-packet one-way delay: 174.732 ms
  Loss rate: 1.50%
-- Flow 3:
  Average throughput: 60.77 Mbit/s
  95th percentile per-packet one-way delay: 137.367 ms
  Loss rate: 3.60%
Run 5: Report of Copa — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 102.68 Mbps)**
- **Flow 1 egress (mean 102.15 Mbps)**
- **Flow 2 ingress (mean 271.33 Mbps)**
- **Flow 2 egress (mean 270.96 Mbps)**
- **Flow 3 ingress (mean 61.32 Mbps)**
- **Flow 3 egress (mean 60.77 Mbps)**

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

- **Flow 1 (95th percentile 140.58 ms)**
- **Flow 2 (95th percentile 174.73 ms)**
- **Flow 3 (95th percentile 137.37 ms)**
Run 6: Statistics of Copa

Start at: 2018-05-25 16:43:02
Local clock offset: 0.014 ms
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.16 Mbit/s
95th percentile per-packet one-way delay: 153.656 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 180.32 Mbit/s
95th percentile per-packet one-way delay: 145.668 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 97.94 Mbit/s
95th percentile per-packet one-way delay: 161.014 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 103.96 Mbit/s
95th percentile per-packet one-way delay: 165.424 ms
Loss rate: 4.46%
Run 6: Report of Copa — Data Link

![Graphs showing throughput and packet delay for different flows.]
Run 7: Statistics of Copa

Start at: 2018-05-25 17:08:21
End at: 2018-05-25 17:08:51
Local clock offset: -0.097 ms
Remote clock offset: -0.522 ms

# Below is generated by plot.py at 2018-05-25 19:14:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.90 Mbit/s
95th percentile per-packet one-way delay: 173.694 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 159.55 Mbit/s
95th percentile per-packet one-way delay: 174.628 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 70.28 Mbit/s
95th percentile per-packet one-way delay: 156.988 ms
Loss rate: 3.58%
-- Flow 3:
Average throughput: 109.61 Mbit/s
95th percentile per-packet one-way delay: 174.761 ms
Loss rate: 3.45%
Run 7: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 159.57 Mbps)
- **Flow 1 egress** (mean 159.55 Mbps)
- **Flow 2 ingress** (mean 71.92 Mbps)
- **Flow 2 egress** (mean 70.28 Mbps)
- **Flow 3 ingress** (mean 110.55 Mbps)
- **Flow 3 egress** (mean 109.61 Mbps)

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

- **Flow 1** (95th percentile 174.63 ms)
- **Flow 2** (95th percentile 156.99 ms)
- **Flow 3** (95th percentile 174.76 ms)
Run 8: Statistics of Copa

End at: 2018-05-25 17:34:02
Local clock offset: 0.209 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-05-25 19:15:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.21 Mbit/s
95th percentile per-packet one-way delay: 157.082 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 167.74 Mbit/s
95th percentile per-packet one-way delay: 145.381 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 80.27 Mbit/s
95th percentile per-packet one-way delay: 146.468 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 195.87 Mbit/s
95th percentile per-packet one-way delay: 173.462 ms
Loss rate: 4.02%
Run 8: Report of Copa — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 166.66 Mbit/s)  Flow 1 egress (mean 167.74 Mbit/s)
Flow 2 ingress (mean 79.29 Mbit/s)  Flow 2 egress (mean 80.27 Mbit/s)
Flow 3 ingress (mean 198.51 Mbit/s)  Flow 3 egress (mean 196.67 Mbit/s)

One packet round trip delay (ms)

Time (s)

Flow 1 (95th percentile 145.38 ms)  Flow 2 (95th percentile 146.47 ms)  Flow 3 (95th percentile 173.46 ms)
Run 9: Statistics of Copa

Start at: 2018-05-25 17:58:52
End at: 2018-05-25 17:59:22
Local clock offset: 0.312 ms
Remote clock offset: -0.229 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 327.70 Mbit/s
  95th percentile per-packet one-way delay: 153.591 ms
  Loss rate: 0.88%
-- Flow 1:
  Average throughput: 263.24 Mbit/s
  95th percentile per-packet one-way delay: 153.224 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 63.71 Mbit/s
  95th percentile per-packet one-way delay: 143.590 ms
  Loss rate: 2.17%
-- Flow 3:
  Average throughput: 68.12 Mbit/s
  95th percentile per-packet one-way delay: 180.633 ms
  Loss rate: 7.47%
Run 9: Report of Copa — Data Link

- **Flow 1 ing**: mean 261.04 Mbit/s
- **Flow 1 egress**: mean 263.24 Mbit/s
- **Flow 2 ing**: mean 64.28 Mbit/s
- **Flow 2 egress**: mean 63.71 Mbit/s
- **Flow 3 ing**: mean 71.61 Mbit/s
- **Flow 3 egress**: mean 68.12 Mbit/s

- **Flow 1 (95th percentile)** 153.22 ms
- **Flow 2 (95th percentile)** 143.59 ms
- **Flow 3 (95th percentile)** 180.63 ms
Run 10: Statistics of Copa

Start at: 2018-05-25 18:24:10
End at: 2018-05-25 18:24:40
Local clock offset: 0.457 ms
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.43 Mbit/s
95th percentile per-packet one-way delay: 150.076 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 129.49 Mbit/s
95th percentile per-packet one-way delay: 141.829 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 115.19 Mbit/s
95th percentile per-packet one-way delay: 163.864 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 78.64 Mbit/s
95th percentile per-packet one-way delay: 140.150 ms
Loss rate: 3.05%
Run 10: Report of Copa — Data Link

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

Flow 1 ingress (mean 130.29 Mbit/s)  
Flow 1 egress (mean 129.49 Mbit/s)  
Flow 2 ingress (mean 114.95 Mbit/s)  
Flow 2 egress (mean 115.19 Mbit/s)  
Flow 3 ingress (mean 78.87 Mbit/s)  
Flow 3 egress (mean 78.64 Mbit/s)  

Flow 1 (95th percentile 141.83 ms)  
Flow 2 (95th percentile 163.86 ms)  
Flow 3 (95th percentile 140.15 ms)
Run 1: Statistics of TCP Cubic

Local clock offset: -0.347 ms
Remote clock offset: -0.593 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 103.29 Mbit/s
   95th percentile per-packet one-way delay: 140.448 ms
   Loss rate: 1.87%
-- Flow 1:
   Average throughput: 52.80 Mbit/s
   95th percentile per-packet one-way delay: 140.715 ms
   Loss rate: 1.51%
-- Flow 2:
   Average throughput: 57.07 Mbit/s
   95th percentile per-packet one-way delay: 139.862 ms
   Loss rate: 1.73%
-- Flow 3:
   Average throughput: 40.05 Mbit/s
   95th percentile per-packet one-way delay: 139.807 ms
   Loss rate: 3.67%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

End at: 2018-05-25 15:04:58
Local clock offset: 0.164 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.30 Mbit/s
95th percentile per-packet one-way delay: 142.072 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 142.802 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 41.94 Mbit/s
95th percentile per-packet one-way delay: 139.386 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 37.04 Mbit/s
95th percentile per-packet one-way delay: 142.399 ms
Loss rate: 3.52%
Run 2: Report of TCP Cubic — Data Link

---

**Throughput (Mbit/s)**

- Flow 1 ingress (mean 73.79 Mbit/s)
- Flow 1 egress (mean 73.65 Mbit/s)
- Flow 2 ingress (mean 42.07 Mbit/s)
- Flow 2 egress (mean 41.94 Mbit/s)
- Flow 3 ingress (mean 37.34 Mbit/s)
- Flow 3 egress (mean 37.04 Mbit/s)

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

- Flow 1 (95th percentile 142.90 ms)
- Flow 2 (95th percentile 139.39 ms)
- Flow 3 (95th percentile 142.40 ms)
Run 3: Statistics of TCP Cubic

Local clock offset: 0.227 ms
Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.13 Mbit/s
95th percentile per-packet one-way delay: 144.224 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 144.281 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 80.62 Mbit/s
95th percentile per-packet one-way delay: 144.300 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 143.198 ms
Loss rate: 3.88%
Run 3: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 55.76 Mbps)**
- **Flow 1 egress (mean 55.46 Mbps)**
- **Flow 2 ingress (mean 79.69 Mbps)**
- **Flow 2 egress (mean 80.62 Mbps)**
- **Flow 3 ingress (mean 33.03 Mbps)**
- **Flow 3 egress (mean 32.64 Mbps)**

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

- **Flow 1 (95th percentile 144.28 ms)**
- **Flow 2 (95th percentile 144.30 ms)**
- **Flow 3 (95th percentile 143.20 ms)**
Run 4: Statistics of TCP Cubic

Local clock offset: -0.039 ms
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.22 Mbit/s
95th percentile per-packet one-way delay: 137.706 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 45.43 Mbit/s
95th percentile per-packet one-way delay: 137.905 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 136.863 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 139.046 ms
Loss rate: 3.83%
Run 4: Report of TCP Cubic — Data Link

![Graph showing network performance metrics over time]

- Throughput (Mbps)
- Time (s)
- Flow 1 ingress (mean 45.62 Mbps)
- Flow 1 egress (mean 45.43 Mbps)
- Flow 2 ingress (mean 42.45 Mbps)
- Flow 2 egress (mean 42.32 Mbps)
- Flow 3 ingress (mean 42.68 Mbps)
- Flow 3 egress (mean 42.20 Mbps)

![Graph showing packet delay distribution over time]

- Per-packet one-way delay (ms)
- Time (s)
- Flow 1 (95th percentile 137.91 ms)
- Flow 2 (95th percentile 136.86 ms)
- Flow 3 (95th percentile 139.05 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 16:19:54
End at: 2018-05-25 16:20:24
Local clock offset: -0.103 ms
Remote clock offset: -0.59 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.54 Mbit/s
  95th percentile per-packet one-way delay: 141.888 ms
  Loss rate: 1.41%
-- Flow 1:
  Average throughput: 68.05 Mbit/s
  95th percentile per-packet one-way delay: 142.534 ms
  Loss rate: 1.18%
-- Flow 2:
  Average throughput: 44.81 Mbit/s
  95th percentile per-packet one-way delay: 137.528 ms
  Loss rate: 1.82%
-- Flow 3:
  Average throughput: 0.83 Mbit/s
  95th percentile per-packet one-way delay: 140.103 ms
  Loss rate: 12.81%
Run 5: Report of TCP Cubic — Data Link

![Graphs showing throughput and per-packet one-way delay for different flows.](image-url)
Run 6: Statistics of TCP Cubic

End at: 2018-05-25 16:45:17
Local clock offset: ~0.297 ms
Remote clock offset: ~0.16 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 114.73 Mbit/s
  95th percentile per-packet one-way delay: 140.201 ms
  Loss rate: 1.64%
-- Flow 1:
  Average throughput: 68.37 Mbit/s
  95th percentile per-packet one-way delay: 140.586 ms
  Loss rate: 1.17%
-- Flow 2:
  Average throughput: 49.69 Mbit/s
  95th percentile per-packet one-way delay: 138.827 ms
  Loss rate: 1.76%
-- Flow 3:
  Average throughput: 41.34 Mbit/s
  95th percentile per-packet one-way delay: 141.075 ms
  Loss rate: 3.66%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 17:10:02
End at: 2018-05-25 17:10:32
Local clock offset: 0.314 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 106.63 Mbit/s
  95th percentile per-packet one-way delay: 142.826 ms
  Loss rate: 1.22%
-- Flow 1:
  Average throughput: 53.46 Mbit/s
  95th percentile per-packet one-way delay: 142.248 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 61.30 Mbit/s
  95th percentile per-packet one-way delay: 143.330 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 38.59 Mbit/s
  95th percentile per-packet one-way delay: 144.366 ms
  Loss rate: 3.50%
Run 7: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 53.45 Mbit/s)
- Flow 1 egress (mean 53.46 Mbit/s)
- Flow 2 ingress (mean 61.03 Mbit/s)
- Flow 2 egress (mean 61.30 Mbit/s)
- Flow 3 ingress (mean 36.89 Mbit/s)
- Flow 3 egress (mean 38.59 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 142.25 ms)
- Flow 2 (95th percentile 143.33 ms)
- Flow 3 (95th percentile 144.37 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 17:35:17
End at: 2018-05-25 17:35:47
Local clock offset: -0.159 ms
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 140.932 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 52.89 Mbit/s
95th percentile per-packet one-way delay: 142.129 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 137.856 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 43.45 Mbit/s
95th percentile per-packet one-way delay: 139.939 ms
Loss rate: 3.89%
Run 8: Report of TCP Cubic — Data Link

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

![Graph 2: Packet Drop vs Time](image2)
Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 18:00:42
End at: 2018-05-25 18:01:12
Local clock offset: 0.403 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.60 Mbit/s
95th percentile per-packet one-way delay: 143.046 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 59.18 Mbit/s
95th percentile per-packet one-way delay: 141.528 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 57.77 Mbit/s
95th percentile per-packet one-way delay: 144.232 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 144.107 ms
Loss rate: 3.44%
Run 9: Report of TCP Cubic — Data Link

![Graphs showing throughput and per-packet one-way delay for different flows, with mean values provided.]
Run 10: Statistics of TCP Cubic

End at: 2018-05-25 18:26:20
Local clock offset: -0.236 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2018-05-25 19:21:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.40 Mbit/s
95th percentile per-packet one-way delay: 138.838 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 68.00 Mbit/s
95th percentile per-packet one-way delay: 137.848 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 140.771 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 52.98 Mbit/s
95th percentile per-packet one-way delay: 140.975 ms
Loss rate: 3.92%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2018-05-25 14:57:16
End at: 2018-05-25 14:57:46
Local clock offset: 0.018 ms
Remote clock offset: -0.641 ms

# Below is generated by plot.py at 2018-05-25 19:40:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1160.14 Mbit/s
95th percentile per-packet one-way delay: 233.937 ms
Loss rate: 8.07%
-- Flow 1:
Average throughput: 639.30 Mbit/s
95th percentile per-packet one-way delay: 222.053 ms
Loss rate: 6.76%
-- Flow 2:
Average throughput: 547.12 Mbit/s
95th percentile per-packet one-way delay: 257.203 ms
Loss rate: 9.60%
-- Flow 3:
Average throughput: 486.08 Mbit/s
95th percentile per-packet one-way delay: 231.473 ms
Loss rate: 9.69%
Run 1: Report of FillP — Data Link

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

- Flow 1 ingress (mean 679.35 Mbps)
- Flow 1 egress (mean 639.30 Mbps)
- Flow 2 ingress (mean 596.98 Mbps)
- Flow 2 egress (mean 547.12 Mbps)
- Flow 3 ingress (mean 523.45 Mbps)
- Flow 3 egress (mean 486.08 Mbps)

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

- Flow 1 (95th percentile 222.05 ms)
- Flow 2 (95th percentile 257.20 ms)
- Flow 3 (95th percentile 231.47 ms)
Run 2: Statistics of FillP

Local clock offset: 0.109 ms
Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2018-05-25 19:44:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1254.58 Mbit/s
95th percentile per-packet one-way delay: 288.751 ms
Loss rate: 5.12%
-- Flow 1:
Average throughput: 692.56 Mbit/s
95th percentile per-packet one-way delay: 218.027 ms
Loss rate: 6.09%
-- Flow 2:
Average throughput: 617.21 Mbit/s
95th percentile per-packet one-way delay: 331.247 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 470.79 Mbit/s
95th percentile per-packet one-way delay: 285.328 ms
Loss rate: 4.06%
Run 2: Report of FillP — Data Link

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

- Flow 1 ingress (mean 730.76 Mbit/s) vs Flow 1 egress (mean 692.56 Mbit/s)
- Flow 2 ingress (mean 633.03 Mbit/s) vs Flow 2 egress (mean 617.73 Mbit/s)
- Flow 3 ingress (mean 477.20 Mbit/s) vs Flow 3 egress (mean 470.79 Mbit/s)

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

- Flow 1 (95th percentile 218.03 ms) vs Flow 2 (95th percentile 331.25 ms) vs Flow 3 (95th percentile 285.33 ms)
Run 3: Statistics of FillP

End at: 2018-05-25 15:47:52
Local clock offset: -0.288 ms
Remote clock offset: -0.605 ms

# Below is generated by plot.py at 2018-05-25 19:45:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1286.47 Mbit/s
  95th percentile per-packet one-way delay: 218.552 ms
  Loss rate: 3.76%
-- Flow 1:
  Average throughput: 695.99 Mbit/s
  95th percentile per-packet one-way delay: 218.894 ms
  Loss rate: 4.27%
-- Flow 2:
  Average throughput: 644.04 Mbit/s
  95th percentile per-packet one-way delay: 225.673 ms
  Loss rate: 3.26%
-- Flow 3:
  Average throughput: 503.81 Mbit/s
  95th percentile per-packet one-way delay: 164.232 ms
  Loss rate: 2.88%
Run 3: Report of FillP — Data Link

![Graph of Throughput (Mbps/s) vs Time (s) for Flow 1 Ingress and Egress, Flow 2 Ingress and Egress, Flow 3 Ingress and Egress with mean values.]

![Graph of Packet One-way Delay (ms) vs Time (s) for Flow 1, Flow 2, Flow 3 with 95th percentile delays.]
Run 4: Statistics of FillP

Start at: 2018-05-25 16:12:35
End at: 2018-05-25 16:13:05
Local clock offset: -0.059 ms
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2018-05-25 19:45:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1188.71 Mbit/s
95th percentile per-packet one-way delay: 284.930 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 621.82 Mbit/s
95th percentile per-packet one-way delay: 264.568 ms
Loss rate: 3.41%
-- Flow 2:
Average throughput: 592.48 Mbit/s
95th percentile per-packet one-way delay: 315.746 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 534.65 Mbit/s
95th percentile per-packet one-way delay: 182.578 ms
Loss rate: 3.71%
Run 4: Report of FillP — Data Link

Throughput (Mb/s):

- Flow 1 Ingress (mean 658.10 Mb/s)
- Flow 1 Egress (mean 621.82 Mb/s)
- Flow 2 Ingress (mean 601.47 Mb/s)
- Flow 2 Egress (mean 592.48 Mb/s)
- Flow 3 Ingress (mean 540.13 Mb/s)
- Flow 3 Egress (mean 534.65 Mb/s)

Packet error rate (loss/mm delay ms):

- Flow 1 (95th percentile 264.57 ms)
- Flow 2 (95th percentile 315.75 ms)
- Flow 3 (95th percentile 182.58 ms)
Run 5: Statistics of FillP

End at: 2018-05-25 16:38:06
Local clock offset: 0.303 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-05-25 19:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1337.76 Mbit/s
95th percentile per-packet one-way delay: 200.366 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 748.19 Mbit/s
95th percentile per-packet one-way delay: 193.518 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 628.21 Mbit/s
95th percentile per-packet one-way delay: 210.460 ms
Loss rate: 4.00%
-- Flow 3:
Average throughput: 533.74 Mbit/s
95th percentile per-packet one-way delay: 181.567 ms
Loss rate: 4.12%
Run 5: Report of FillP — Data Link

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

- Flow 1 ingress (mean 748.26 Mbps/s)
- Flow 1 egress (mean 748.19 Mbps/s)
- Flow 2 ingress (mean 645.42 Mbps/s)
- Flow 2 egress (mean 628.23 Mbps/s)
- Flow 3 ingress (mean 541.29 Mbps/s)
- Flow 3 egress (mean 533.74 Mbps/s)

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

- Flow 1 (95th percentile 193.52 ms)
- Flow 2 (95th percentile 210.46 ms)
- Flow 3 (95th percentile 181.57 ms)
Run 6: Statistics of FillP

Start at: 2018-05-25 17:02:47
End at: 2018-05-25 17:03:17
Local clock offset: 0.059 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-05-25 19:46:31
# Datalink statistics

-- Total of 3 flows:
Average throughput: 1317.81 Mbit/s
95th percentile per-packet one-way delay: 211.381 ms
Loss rate: 4.22%

-- Flow 1:
Average throughput: 707.57 Mbit/s
95th percentile per-packet one-way delay: 210.777 ms
Loss rate: 4.76%

-- Flow 2:
Average throughput: 693.86 Mbit/s
95th percentile per-packet one-way delay: 193.425 ms
Loss rate: 1.45%

-- Flow 3:
Average throughput: 462.99 Mbit/s
95th percentile per-packet one-way delay: 229.234 ms
Loss rate: 9.61%
Run 7: Statistics of FillP

Start at: 2018-05-25 17:28:00
End at: 2018-05-25 17:28:30
Local clock offset: 0.173 ms
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2018-05-25 19:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1182.96 Mbit/s
95th percentile per-packet one-way delay: 304.655 ms
Loss rate: 6.52%
-- Flow 1:
Average throughput: 638.52 Mbit/s
95th percentile per-packet one-way delay: 330.313 ms
Loss rate: 5.92%
-- Flow 2:
Average throughput: 567.85 Mbit/s
95th percentile per-packet one-way delay: 248.346 ms
Loss rate: 8.51%
-- Flow 3:
Average throughput: 517.25 Mbit/s
95th percentile per-packet one-way delay: 166.996 ms
Loss rate: 4.12%
Run 7: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 672.68 Mbps/s)
- Flow 1 Egress (mean 638.52 Mbps/s)
- Flow 2 Ingress (mean 612.52 Mbps/s)
- Flow 2 Egress (mean 567.85 Mbps/s)
- Flow 3 Ingress (mean 524.58 Mbps/s)
- Flow 3 Egress (mean 517.25 Mbps/s)

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

- Flow 1 (95th percentile 330.31 ms)
- Flow 2 (95th percentile 248.35 ms)
- Flow 3 (95th percentile 167.00 ms)
Run 8: Statistics of FillP

Start at: 2018-05-25 17:53:16
End at: 2018-05-25 17:53:46
Local clock offset: -0.2 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2018-05-25 19:51:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1306.03 Mbit/s
95th percentile per-packet one-way delay: 226.716 ms
Loss rate: 4.75%
-- Flow 1:
Average throughput: 720.13 Mbit/s
95th percentile per-packet one-way delay: 227.448 ms
Loss rate: 4.26%
-- Flow 2:
Average throughput: 641.94 Mbit/s
95th percentile per-packet one-way delay: 214.484 ms
Loss rate: 4.82%
-- Flow 3:
Average throughput: 493.01 Mbit/s
95th percentile per-packet one-way delay: 228.905 ms
Loss rate: 6.74%
Run 8: Report of FillP — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Percentiles of Delay (ms)

Legend:
- Flow 1 Ingress (mean 745.28 Mbps)
- Flow 1 Egress (mean 720.13 Mbps)
- Flow 2 Ingress (mean 665.22 Mbps)
- Flow 2 Egress (mean 642.94 Mbps)
- Flow 3 Ingress (mean 514.09 Mbps)
- Flow 3 Egress (mean 493.01 Mbps)
Run 9: Statistics of FillP

Start at: 2018-05-25 18:18:40
End at: 2018-05-25 18:19:10
Local clock offset: 0.231 ms
Remote clock offset: -0.565 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1231.92 Mbit/s
95th percentile per-packet one-way delay: 247.323 ms
Loss rate: 4.76%
-- Flow 1:
Average throughput: 668.67 Mbit/s
95th percentile per-packet one-way delay: 242.209 ms
Loss rate: 5.12%
-- Flow 2:
Average throughput: 630.43 Mbit/s
95th percentile per-packet one-way delay: 206.096 ms
Loss rate: 3.70%
-- Flow 3:
Average throughput: 447.88 Mbit/s
95th percentile per-packet one-way delay: 304.582 ms
Loss rate: 6.05%
Run 9: Report of FillP — Data Link

The first graph shows the throughput (Mb/s) over time for different flows:
- Flow 1 Ingress (mean 666.35 Mb/s)
- Flow 1 Egress (mean 668.67 Mb/s)
- Flow 2 Ingress (mean 645.47 Mb/s)
- Flow 2 Egress (mean 630.43 Mb/s)
- Flow 3 Ingress (mean 463.57 Mb/s)
- Flow 3 Egress (mean 447.88 Mb/s)

The second graph shows the packet delay (ms) over time for different flows:
- Flow 1 (95th percentile 224.21 ms)
- Flow 2 (95th percentile 206.10 ms)
- Flow 3 (95th percentile 304.58 ms)
Run 10: Statistics of FillP

End at: 2018-05-25 18:44:24
Local clock offset: 0.118 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1175.70 Mbit/s
95th percentile per-packet one-way delay: 313.179 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 642.96 Mbit/s
95th percentile per-packet one-way delay: 311.852 ms
Loss rate: 3.85%
-- Flow 2:
Average throughput: 536.05 Mbit/s
95th percentile per-packet one-way delay: 324.128 ms
Loss rate: 3.43%
-- Flow 3:
Average throughput: 546.82 Mbit/s
95th percentile per-packet one-way delay: 139.996 ms
Loss rate: 3.83%
Run 10: Report of FillP — Data Link

[Graph 1: Throughput (Mb/s) vs Time (s)]
- Flow 1 Ingress (mean 662.63 Mb/s)
- Flow 1 Egress (mean 642.96 Mb/s)
- Flow 2 Ingress (mean 547.48 Mb/s)
- Flow 2 Egress (mean 536.05 Mb/s)
- Flow 3 Ingress (mean 552.93 Mb/s)
- Flow 3 Egress (mean 546.82 Mb/s)

[Graph 2: Per-packet one-way delay (ms) vs Time (s)]
- Flow 1 (95th percentile 311.85 ms)
- Flow 2 (95th percentile 324.13 ms)
- Flow 3 (95th percentile 140.00 ms)
Run 1: Statistics of Indigo

Start at: 2018-05-25 14:54:14
End at: 2018-05-25 14:54:44
Local clock offset: -0.033 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.24 Mbit/s
95th percentile per-packet one-way delay: 139.023 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 131.10 Mbit/s
95th percentile per-packet one-way delay: 138.112 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 127.33 Mbit/s
95th percentile per-packet one-way delay: 138.814 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 154.27 Mbit/s
95th percentile per-packet one-way delay: 141.903 ms
Loss rate: 3.43%
Run 1: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 131.16 Mbps)
- Flow 1 egress (mean 131.10 Mbps)
- Flow 2 ingress (mean 127.47 Mbps)
- Flow 2 egress (mean 127.33 Mbps)
- Flow 3 ingress (mean 155.29 Mbps)
- Flow 3 egress (mean 154.27 Mbps)

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

- Flow 1 (95th percentile 138.11 ms)
- Flow 2 (95th percentile 138.81 ms)
- Flow 3 (95th percentile 141.90 ms)
Run 2: Statistics of Indigo

End at: 2018-05-25 15:19:42
Local clock offset: -0.022 ms
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.38 Mbit/s
95th percentile per-packet one-way delay: 137.166 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 178.49 Mbit/s
95th percentile per-packet one-way delay: 136.828 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 126.70 Mbit/s
95th percentile per-packet one-way delay: 137.054 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 109.55 Mbit/s
95th percentile per-packet one-way delay: 138.231 ms
Loss rate: 3.53%
Run 2: Report of Indigo — Data Link

![Graphs showing throughput and packet delay over time for different flows](image-url)
Run 3: Statistics of Indigo

Start at: 2018-05-25 15:44:26
End at: 2018-05-25 15:44:56
Local clock offset: 0.078 ms
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 268.60 Mbit/s
  95th percentile per-packet one-way delay: 138.641 ms
  Loss rate: 1.62%
-- Flow 1:
  Average throughput: 132.58 Mbit/s
  95th percentile per-packet one-way delay: 138.002 ms
  Loss rate: 0.97%
-- Flow 2:
  Average throughput: 129.65 Mbit/s
  95th percentile per-packet one-way delay: 138.698 ms
  Loss rate: 1.55%
-- Flow 3:
  Average throughput: 157.43 Mbit/s
  95th percentile per-packet one-way delay: 139.559 ms
  Loss rate: 3.43%
Run 3: Report of Indigo — Data Link

![Graph of Throughput and Packet Latency](image)

**Throughput (Mbps)**

- **Flow 1 Ingress (mean 132.65 Mbps)**
- **Flow 1 Egress (mean 132.58 Mbps)**
- **Flow 2 Ingress (mean 129.88 Mbps)**
- **Flow 2 Egress (mean 129.65 Mbps)**
- **Flow 3 Ingress (mean 156.47 Mbps)**
- **Flow 3 Egress (mean 157.43 Mbps)**

**Packet Latency (ms)**

- **Flow 1 (95th percentile 138.00 ms)**
- **Flow 2 (95th percentile 138.70 ms)**
- **Flow 3 (95th percentile 139.56 ms)**
Run 4: Statistics of Indigo

Start at: 2018-05-25 16:09:40
End at: 2018-05-25 16:10:10
Local clock offset: -0.122 ms
Remote clock offset: -0.602 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.73 Mbit/s
95th percentile per-packet one-way delay: 138.567 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 132.38 Mbit/s
95th percentile per-packet one-way delay: 137.758 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 122.69 Mbit/s
95th percentile per-packet one-way delay: 138.868 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 113.04 Mbit/s
95th percentile per-packet one-way delay: 140.174 ms
Loss rate: 3.71%
Run 4: Report of Indigo — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 5: Statistics of Indigo

Start at: 2018-05-25 16:34:37
End at: 2018-05-25 16:35:07
Local clock offset: 0.125 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.87 Mbit/s
95th percentile per-packet one-way delay: 138.027 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 133.58 Mbit/s
95th percentile per-packet one-way delay: 137.484 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 172.28 Mbit/s
95th percentile per-packet one-way delay: 137.732 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 110.32 Mbit/s
95th percentile per-packet one-way delay: 139.320 ms
Loss rate: 3.69%
Run 5: Report of Indigo — Data Link
Run 6: Statistics of Indigo

End at: 2018-05-25 17:00:18
Local clock offset: -0.205 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.09 Mbit/s
95th percentile per-packet one-way delay: 138.167 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 132.29 Mbit/s
95th percentile per-packet one-way delay: 137.750 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 129.39 Mbit/s
95th percentile per-packet one-way delay: 138.241 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 109.38 Mbit/s
95th percentile per-packet one-way delay: 139.191 ms
Loss rate: 3.64%
Run 6: Report of Indigo — Data Link

**Throughput (Mbps)**

- Flow 1 ingress (mean 132.37 Mbps)
- Flow 1 egress (mean 132.29 Mbps)
- Flow 2 ingress (mean 129.62 Mbps)
- Flow 2 egress (mean 129.39 Mbps)
- Flow 3 ingress (mean 110.35 Mbps)
- Flow 3 egress (mean 109.30 Mbps)

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

- Flow 1 (95th percentile 137.75 ms)
- Flow 2 (95th percentile 138.24 ms)
- Flow 3 (95th percentile 139.19 ms)
Run 7: Statistics of Indigo

Local clock offset: 0.138 ms
Remote clock offset: -0.198 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 264.99 Mbit/s
  95th percentile per-packet one-way delay: 137.104 ms
  Loss rate: 1.59%
-- Flow 1:
  Average throughput: 131.76 Mbit/s
  95th percentile per-packet one-way delay: 136.712 ms
  Loss rate: 0.90%
-- Flow 2:
  Average throughput: 128.15 Mbit/s
  95th percentile per-packet one-way delay: 136.905 ms
  Loss rate: 1.53%
-- Flow 3:
  Average throughput: 152.13 Mbit/s
  95th percentile per-packet one-way delay: 138.022 ms
  Loss rate: 3.49%
Run 7: Report of Indigo — Data Link

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

- Cyan dashed line: Flow 1 ingress (mean 131.74 Mbps)
- Blue solid line: Flow 1 egress (mean 131.76 Mbps)
- Green dashed line: Flow 2 ingress (mean 128.41 Mbps)
- Green solid line: Flow 2 egress (mean 128.15 Mbps)
- Black dashed line: Flow 3 ingress (mean 153.19 Mbps)
- Black solid line: Flow 3 egress (mean 152.13 Mbps)

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

- Blue line: Flow 1 (95th percentile 136.71 ms)
- Green line: Flow 2 (95th percentile 136.91 ms)
- Red line: Flow 3 (95th percentile 138.02 ms)
Run 8: Statistics of Indigo

End at: 2018-05-25 17:50:50
Local clock offset: 0.072 ms
Remote clock offset: -0.574 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.24 Mbit/s
95th percentile per-packet one-way delay: 139.924 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 132.88 Mbit/s
95th percentile per-packet one-way delay: 139.955 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 128.57 Mbit/s
95th percentile per-packet one-way delay: 140.046 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 110.40 Mbit/s
95th percentile per-packet one-way delay: 139.679 ms
Loss rate: 3.66%
Run 8: Report of Indigo — Data Link
Run 9: Statistics of Indigo

End at: 2018-05-25 18:16:11
Local clock offset: 0.075 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.44 Mbit/s
95th percentile per-packet one-way delay: 136.216 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 182.25 Mbit/s
95th percentile per-packet one-way delay: 135.938 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 127.04 Mbit/s
95th percentile per-packet one-way delay: 135.968 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 110.76 Mbit/s
95th percentile per-packet one-way delay: 139.744 ms
Loss rate: 3.65%
Run 9: Report of Indigo — Data Link
Run 10: Statistics of Indigo

Start at: 2018-05-25 18:40:56
End at: 2018-05-25 18:41:26
Local clock offset: 0.079 ms
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.99 Mbit/s
95th percentile per-packet one-way delay: 138.381 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 132.50 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 166.21 Mbit/s
95th percentile per-packet one-way delay: 139.456 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 108.26 Mbit/s
95th percentile per-packet one-way delay: 141.128 ms
Loss rate: 3.58%
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 14:50:02
End at: 2018-05-25 14:50:32
Local clock offset: -0.081 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 136.434 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 136.442 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.164 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.234 ms
Loss rate: 3.14%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

End at: 2018-05-25 15:15:29
Local clock offset: 0.124 ms
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 136.752 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 136.826 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 136.474 ms
Loss rate: 4.95%
-- Flow 3:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 136.597 ms
Loss rate: 5.55%
Run 2: Report of LEDBAT — Data Link

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

![Graph 2: Per-packet round-trip delay (ms)]
Run 3: Statistics of LEDBAT

End at: 2018-05-25 15:40:43
Local clock offset: 0.397 ms
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.03 Mbit/s
95th percentile per-packet one-way delay: 137.426 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 137.438 ms
Loss rate: 1.83%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 137.034 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.973 ms
Loss rate: 2.56%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-05-25 16:05:28
End at: 2018-05-25 16:05:58
Local clock offset: 0.143 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-05-25 20:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 135.857 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 135.925 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 135.687 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 1.09 Mbit/s
95th percentile per-packet one-way delay: 135.749 ms
Loss rate: 6.36%
Run 4: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 4.91 Mbit/s)
- Flow 1 egress (mean 4.86 Mbit/s)
- Flow 2 ingress (mean 3.24 Mbit/s)
- Flow 2 egress (mean 3.19 Mbit/s)
- Flow 3 ingress (mean 1.13 Mbit/s)
- Flow 3 egress (mean 1.09 Mbit/s)

![Graph 2: Packet-Switched Cell Delay vs. Time](image2)

- Flow 1 (95th percentile 135.93 ms)
- Flow 2 (95th percentile 135.69 ms)
- Flow 3 (95th percentile 135.75 ms)
Run 5: Statistics of LEDBAT

Start at: 2018-05-25 16:30:24  
End at: 2018-05-25 16:30:54  
Local clock offset: -0.046 ms  
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 136.308 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 136.366 ms
Loss rate: 1.82%
-- Flow 2:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 135.858 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 136.026 ms
Loss rate: 8.03%
Run 5: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 4.91 Mbit/s)
- **Flow 1 egress** (mean 4.86 Mbit/s)
- **Flow 2 ingress** (mean 3.24 Mbit/s)
- **Flow 2 egress** (mean 3.20 Mbit/s)
- **Flow 3 ingress** (mean 0.30 Mbit/s)
- **Flow 3 egress** (mean 0.26 Mbit/s)

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

- Flow 1 (95th percentile 136.37 ms)
- Flow 2 (95th percentile 135.86 ms)
- Flow 3 (95th percentile 136.03 ms)
Run 6: Statistics of LEDBAT

End at: 2018-05-25 16:56:06
Local clock offset: 0.155 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 136.001 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 136.039 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 135.948 ms
Loss rate: 3.02%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 135.914 ms
Loss rate: 2.78%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-05-25 17:20:46
End at: 2018-05-25 17:21:16
Local clock offset: -0.09 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 135.286 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 135.302 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 135.234 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 134.998 ms
Loss rate: 7.95%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-05-25 17:46:10
End at: 2018-05-25 17:46:40
Local clock offset: -0.088 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 6.72 Mbit/s
  95th percentile per-packet one-way delay: 136.527 ms
  Loss rate: 2.47%
-- Flow 1:
  Average throughput: 4.31 Mbit/s
  95th percentile per-packet one-way delay: 136.538 ms
  Loss rate: 1.93%
-- Flow 2:
  Average throughput: 2.91 Mbit/s
  95th percentile per-packet one-way delay: 136.598 ms
  Loss rate: 2.85%
-- Flow 3:
  Average throughput: 1.53 Mbit/s
  95th percentile per-packet one-way delay: 136.166 ms
  Loss rate: 5.54%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-05-25 18:11:29
End at: 2018-05-25 18:11:59
Local clock offset: 0.011 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 6.90 Mbit/s
  95th percentile per-packet one-way delay: 135.475 ms
  Loss rate: 2.41%
-- Flow 1:
  Average throughput: 4.40 Mbit/s
  95th percentile per-packet one-way delay: 135.489 ms
  Loss rate: 1.91%
-- Flow 2:
  Average throughput: 3.20 Mbit/s
  95th percentile per-packet one-way delay: 135.415 ms
  Loss rate: 2.74%
-- Flow 3:
  Average throughput: 1.22 Mbit/s
  95th percentile per-packet one-way delay: 135.606 ms
  Loss rate: 6.06%
Run 9: Report of LEDBAT — Data Link

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

**Throughput (Mbps)**

**Time (s)**

**Flow 1**
- Ingress: mean 4.44 Mbps
- Egress: mean 4.40 Mbps

**Flow 2**
- Ingress: mean 3.24 Mbps
- Egress: mean 3.20 Mbps

**Flow 3**
- Ingress: mean 1.27 Mbps
- Egress: mean 1.22 Mbps
Run 10: Statistics of LEDBAT

Start at: 2018-05-25 18:36:45
End at: 2018-05-25 18:37:15
Local clock offset: 0.083 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 135.917 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 135.990 ms
Loss rate: 2.82%
-- Flow 2:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 135.741 ms
Loss rate: 3.35%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 135.589 ms
Loss rate: 6.48%
Run 10: Report of LEDBAT — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 1.91 Mb/s)  Flow 1 egress (mean 1.87 Mb/s)
Flow 2 ingress (mean 2.10 Mb/s)  Flow 2 egress (mean 2.06 Mb/s)
Flow 3 ingress (mean 1.07 Mb/s)  Flow 3 egress (mean 1.03 Mb/s)

End-to-end one-way delay (ms)

Time (s)

Flow 1 (95th percentile 135.99 ms)  Flow 2 (95th percentile 135.74 ms)  Flow 3 (95th percentile 135.59 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 14:52:33
End at: 2018-05-25 14:53:03
Local clock offset: -0.052 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.49 Mbit/s
95th percentile per-packet one-way delay: 251.830 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 471.32 Mbit/s
95th percentile per-packet one-way delay: 253.276 ms
Loss rate: 4.17%
-- Flow 2:
Average throughput: 118.73 Mbit/s
95th percentile per-packet one-way delay: 245.419 ms
Loss rate: 4.03%
-- Flow 3:
Average throughput: 60.77 Mbit/s
95th percentile per-packet one-way delay: 249.930 ms
Loss rate: 7.74%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 15:17:31
End at: 2018-05-25 15:18:01
Local clock offset: 0.02 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 580.18 Mbit/s
95th percentile per-packet one-way delay: 249.258 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 538.08 Mbit/s
95th percentile per-packet one-way delay: 249.706 ms
Loss rate: 2.91%
-- Flow 2:
Average throughput: 33.25 Mbit/s
95th percentile per-packet one-way delay: 244.229 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 62.41 Mbit/s
95th percentile per-packet one-way delay: 241.430 ms
Loss rate: 5.17%
Run 2: Report of PCC-Allegro — Data Link

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

- Flow 1 Ingress (mean 549.17 Mbps)
- Flow 1 Egress (mean 538.08 Mbps)
- Flow 2 Ingress (mean 33.59 Mbps)
- Flow 2 Egress (mean 33.25 Mbps)
- Flow 3 Ingress (mean 63.92 Mbps)
- Flow 3 Egress (mean 62.41 Mbps)

![Graph 2: Percentile 95th: Delay (ms)](image2)

- Flow 1 (95th percentile 249.71 ms)
- Flow 2 (95th percentile 244.23 ms)
- Flow 3 (95th percentile 241.43 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 15:42:45
End at: 2018-05-25 15:43:15
Local clock offset: 0.035 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.65 Mbit/s
95th percentile per-packet one-way delay: 248.452 ms
Loss rate: 3.33%
-- Flow 1:
Average throughput: 487.52 Mbit/s
95th percentile per-packet one-way delay: 250.741 ms
Loss rate: 3.24%
-- Flow 2:
Average throughput: 121.56 Mbit/s
95th percentile per-packet one-way delay: 244.604 ms
Loss rate: 3.83%
-- Flow 3:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 244.404 ms
Loss rate: 3.47%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 16:08:00
End at: 2018-05-25 16:08:30
Local clock offset: 0.171 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.67 Mbit/s
95th percentile per-packet one-way delay: 266.085 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 519.44 Mbit/s
95th percentile per-packet one-way delay: 272.466 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 66.20 Mbit/s
95th percentile per-packet one-way delay: 246.337 ms
Loss rate: 2.58%
-- Flow 3:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 233.769 ms
Loss rate: 3.09%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Local clock offset: 0.306 ms
Remote clock offset: -0.579 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 547.62 Mbit/s
95th percentile per-packet one-way delay: 249.234 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 463.96 Mbit/s
95th percentile per-packet one-way delay: 253.822 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 124.38 Mbit/s
95th percentile per-packet one-way delay: 226.909 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 4.49 Mbit/s
95th percentile per-packet one-way delay: 198.894 ms
Loss rate: 2.71%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 16:58:07
End at: 2018-05-25 16:58:37
Local clock offset: -0.09 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-25 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 576.81 Mbit/s
95th percentile per-packet one-way delay: 245.580 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 523.08 Mbit/s
95th percentile per-packet one-way delay: 248.479 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 65.15 Mbit/s
95th percentile per-packet one-way delay: 241.424 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 211.133 ms
Loss rate: 2.85%
Run 6: Report of PCC-Allegro — Data Link
Run 7: Statistics of PCC-Allegro

Local clock offset: 0.129 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-05-25 20:14:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 554.15 Mbit/s  
95th percentile per-packet one-way delay: 242.519 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 471.49 Mbit/s  
95th percentile per-packet one-way delay: 242.653 ms  
Loss rate: 2.43%  
-- Flow 2:  
Average throughput: 122.70 Mbit/s  
95th percentile per-packet one-way delay: 242.018 ms  
Loss rate: 3.02%  
-- Flow 3:  
Average throughput: 4.53 Mbit/s  
95th percentile per-packet one-way delay: 154.462 ms  
Loss rate: 2.70%
Run 7: Report of PCC-Allegro — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 ingress (mean 478.82 Mbps/s)  
Flow 1 egress (mean 471.49 Mbps/s)  
Flow 2 ingress (mean 124.78 Mbps/s)  
Flow 2 egress (mean 122.70 Mbps/s)  
Flow 3 ingress (mean 4.53 Mbps/s)  
Flow 3 egress (mean 4.53 Mbps/s)

Per packet error rate (delay ms)

Time (s)

Flow 1 (95th percentile 242.65 ms)  
Flow 2 (95th percentile 242.02 ms)  
Flow 3 (95th percentile 154.46 ms)
Run 8: Statistics of PCC-Allegro

Local clock offset: 0.172 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-25 20:14:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 511.07 Mbit/s
95th percentile per-packet one-way delay: 249.201 ms
Loss rate: 3.19%
-- Flow 1:
Average throughput: 416.07 Mbit/s
95th percentile per-packet one-way delay: 250.649 ms
Loss rate: 3.17%
-- Flow 2:
Average throughput: 127.55 Mbit/s
95th percentile per-packet one-way delay: 246.680 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 32.71 Mbit/s
95th percentile per-packet one-way delay: 247.529 ms
Loss rate: 4.24%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 18:14:00
End at: 2018-05-25 18:14:30
Local clock offset: 0.069 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-05-25 20:16:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 555.26 Mbit/s
95th percentile per-packet one-way delay: 244.694 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 488.94 Mbit/s
95th percentile per-packet one-way delay: 244.685 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 69.81 Mbit/s
95th percentile per-packet one-way delay: 244.240 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 62.59 Mbit/s
95th percentile per-packet one-way delay: 245.538 ms
Loss rate: 4.25%
Run 9: Report of PCC-Allegro — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 Ingress (mean 496.43 Mbps)
  - Flow 1 Egress (mean 488.94 Mbps)
  - Flow 2 Ingress (mean 70.41 Mbps)
  - Flow 2 Egress (mean 69.81 Mbps)
  - Flow 3 Ingress (mean 63.59 Mbps)
  - Flow 3 Egress (mean 62.59 Mbps)

- **Per-packet one way delay (ms):**
  - Flow 1 (95th percentile 244.69 ms)
  - Flow 2 (95th percentile 244.24 ms)
  - Flow 3 (95th percentile 245.54 ms)
Run 10: Statistics of PCC-Allegro

Local clock offset: 0.009 ms
Remote clock offset: -0.58 ms

# Below is generated by plot.py at 2018-05-25 20:17:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.17 Mbit/s
95th percentile per-packet one-way delay: 244.286 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 502.97 Mbit/s
95th percentile per-packet one-way delay: 244.288 ms
Loss rate: 2.24%
-- Flow 2:
Average throughput: 73.27 Mbit/s
95th percentile per-packet one-way delay: 244.224 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 33.13 Mbit/s
95th percentile per-packet one-way delay: 244.474 ms
Loss rate: 3.14%
Run 10: Report of PCC-Allegro — Data Link

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

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

Legend:
- Flow 1 ingress (mean 509.76 Mbit/s)
- Flow 1 egress (mean 502.97 Mbit/s)
- Flow 2 ingress (mean 73.57 Mbit/s)
- Flow 2 egress (mean 73.27 Mbit/s)
- Flow 3 ingress (mean 33.25 Mbit/s)
- Flow 3 egress (mean 33.13 Mbit/s)
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 14:35:32
End at: 2018-05-25 14:36:02
Local clock offset: 0.256 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-05-25 20:22:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 454.38 Mbit/s
  95th percentile per-packet one-way delay: 260.055 ms
  Loss rate: 2.63%
-- Flow 1:
  Average throughput: 315.69 Mbit/s
  95th percentile per-packet one-way delay: 263.433 ms
  Loss rate: 2.95%
-- Flow 2:
  Average throughput: 170.22 Mbit/s
  95th percentile per-packet one-way delay: 147.728 ms
  Loss rate: 1.59%
-- Flow 3:
  Average throughput: 80.70 Mbit/s
  95th percentile per-packet one-way delay: 138.201 ms
  Loss rate: 3.28%
Run 1: Report of PCC-Expr — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 322.30 Mbps)
Flow 1 egress (mean 315.69 Mbps)
Flow 2 ingress (mean 170.59 Mbps)
Flow 2 egress (mean 170.52 Mbps)
Flow 3 ingress (mean 81.11 Mbps)
Flow 3 egress (mean 80.70 Mbps)

Delay (ms)

Time (s)

Flow 1 (95th percentile 263.43 ms)
Flow 2 (95th percentile 147.73 ms)
Flow 3 (95th percentile 138.20 ms)
Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 15:00:45
End at: 2018-05-25 15:01:15
Local clock offset: -0.282 ms
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2018-05-25 20:22:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.90 Mbit/s
95th percentile per-packet one-way delay: 302.813 ms
Loss rate: 6.95%
-- Flow 1:
Average throughput: 311.29 Mbit/s
95th percentile per-packet one-way delay: 305.721 ms
Loss rate: 7.82%
-- Flow 2:
Average throughput: 75.55 Mbit/s
95th percentile per-packet one-way delay: 177.135 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 178.921 ms
Loss rate: 3.41%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Local clock offset: -0.023 ms
Remote clock offset: -0.228 ms

# Below is generated by plot.py at 2018-05-25 20:24:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.93 Mbit/s
95th percentile per-packet one-way delay: 195.112 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 285.47 Mbit/s
95th percentile per-packet one-way delay: 200.887 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 174.33 Mbit/s
95th percentile per-packet one-way delay: 182.938 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 80.72 Mbit/s
95th percentile per-packet one-way delay: 137.745 ms
Loss rate: 3.09%
Run 3: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 288.72 Mb/s) vs Flow 1 egress (mean 285.47 Mb/s)
- Flow 2 ingress (mean 174.66 Mb/s) vs Flow 2 egress (mean 174.33 Mb/s)
- Flow 3 ingress (mean 81.03 Mb/s) vs Flow 3 egress (mean 80.72 Mb/s)

![Another graph showing per-packet one-way delay.]

- Flow 1 (95th percentile 200.89 ms) vs Flow 2 (95th percentile 182.94 ms) vs Flow 3 (95th percentile 137.75 ms)
Run 4: Statistics of PCC-Expr

Local clock offset: 0.318 ms
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2018-05-25 20:25:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.68 Mbit/s
95th percentile per-packet one-way delay: 268.939 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 303.60 Mbit/s
95th percentile per-packet one-way delay: 281.672 ms
Loss rate: 3.89%
-- Flow 2:
Average throughput: 171.21 Mbit/s
95th percentile per-packet one-way delay: 244.536 ms
Loss rate: 3.01%
-- Flow 3:
Average throughput: 79.52 Mbit/s
95th percentile per-packet one-way delay: 250.755 ms
Loss rate: 8.18%
Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 16:16:05
End at: 2018-05-25 16:16:35
Local clock offset: 0.264 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-05-25 20:29:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.59 Mbit/s
95th percentile per-packet one-way delay: 238.883 ms
Loss rate: 2.31%
-- Flow 1:
Average throughput: 265.81 Mbit/s
95th percentile per-packet one-way delay: 258.740 ms
Loss rate: 2.51%
-- Flow 2:
Average throughput: 179.11 Mbit/s
95th percentile per-packet one-way delay: 141.799 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 80.90 Mbit/s
95th percentile per-packet one-way delay: 137.258 ms
Loss rate: 3.30%
Run 5: Report of PCC-Expr — Data Link
Run 6: Statistics of PCC-Expr

End at: 2018-05-25 16:41:41  
Local clock offset: 0.16 ms  
Remote clock offset: -0.619 ms

# Below is generated by plot.py at 2018-05-25 20:29:15  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 316.25 Mbit/s  
  95th percentile per-packet one-way delay: 139.167 ms  
  Loss rate: 1.46%  
-- Flow 1:  
  Average throughput: 176.00 Mbit/s  
  95th percentile per-packet one-way delay: 138.044 ms  
  Loss rate: 1.09%  
-- Flow 2:  
  Average throughput: 171.88 Mbit/s  
  95th percentile per-packet one-way delay: 157.867 ms  
  Loss rate: 1.60%  
-- Flow 3:  
  Average throughput: 81.73 Mbit/s  
  95th percentile per-packet one-way delay: 137.524 ms  
  Loss rate: 3.30%
Run 6: Report of PCC-Expr — Data Link
Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 17:06:23
End at: 2018-05-25 17:06:53
Local clock offset: 0.079 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-25 20:32:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 429.38 Mbit/s
  95th percentile per-packet one-way delay: 231.302 ms
  Loss rate: 2.59%
-- Flow 1:
  Average throughput: 268.55 Mbit/s
  95th percentile per-packet one-way delay: 224.545 ms
  Loss rate: 1.50%
-- Flow 2:
  Average throughput: 171.72 Mbit/s
  95th percentile per-packet one-way delay: 231.537 ms
  Loss rate: 2.83%
-- Flow 3:
  Average throughput: 145.63 Mbit/s
  95th percentile per-packet one-way delay: 247.228 ms
  Loss rate: 7.84%
Run 7: Report of PCC-Expr — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)

- Flow 1 ingress (mean 270.16 Mbit/s)
- Flow 1 egress (mean 268.55 Mbit/s)
- Flow 2 ingress (mean 174.27 Mbit/s)
- Flow 2 egress (mean 171.72 Mbit/s)
- Flow 3 ingress (mean 153.63 Mbit/s)
- Flow 3 egress (mean 145.63 Mbit/s)

- Flow 1 (95th percentile 224.54 ms)
- Flow 2 (95th percentile 231.54 ms)
- Flow 3 (95th percentile 247.23 ms)
Run 8: Statistics of PCC-Expr

End at: 2018-05-25 17:32:01
Local clock offset: -0.328 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-05-25 20:32:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.33 Mbit/s
95th percentile per-packet one-way delay: 211.624 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 281.45 Mbit/s
95th percentile per-packet one-way delay: 223.810 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 168.78 Mbit/s
95th percentile per-packet one-way delay: 156.785 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 80.74 Mbit/s
95th percentile per-packet one-way delay: 136.772 ms
Loss rate: 3.38%
Run 8: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress**: Mean 286.03 Mbps
- **Flow 1 egress**: Mean 281.45 Mbps
- **Flow 2 ingress**: Mean 168.91 Mbps
- **Flow 2 egress**: Mean 168.78 Mbps
- **Flow 3 ingress**: Mean 81.23 Mbps
- **Flow 3 egress**: Mean 80.74 Mbps

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

- **Flow 1 (95th percentile)**: 223.91 ms
- **Flow 2 (95th percentile)**: 156.78 ms
- **Flow 3 (95th percentile)**: 136.77 ms
Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 17:56:50
End at: 2018-05-25 17:57:20
Local clock offset: 0.312 ms
Remote clock offset: 0.165 ms

# Below is generated by plot.py at 2018-05-25 20:37:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.24 Mbit/s
95th percentile per-packet one-way delay: 255.072 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 283.42 Mbit/s
95th percentile per-packet one-way delay: 268.107 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 178.97 Mbit/s
95th percentile per-packet one-way delay: 138.702 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 81.36 Mbit/s
95th percentile per-packet one-way delay: 136.618 ms
Loss rate: 3.39%
Run 9: Report of PCC-Expr — Data Link
Run 10: Statistics of PCC-Expr

Local clock offset: -0.426 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 438.75 Mbit/s
  95th percentile per-packet one-way delay: 196.953 ms
  Loss rate: 1.81%
-- Flow 1:
  Average throughput: 299.86 Mbit/s
  95th percentile per-packet one-way delay: 205.785 ms
  Loss rate: 1.87%
-- Flow 2:
  Average throughput: 169.71 Mbit/s
  95th percentile per-packet one-way delay: 169.522 ms
  Loss rate: 1.30%
-- Flow 3:
  Average throughput: 81.92 Mbit/s
  95th percentile per-packet one-way delay: 135.891 ms
  Loss rate: 3.33%
Run 10: Report of PCC-Expr — Data Link

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

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

Start at: 2018-05-25 14:40:49
End at: 2018-05-25 14:41:19
Local clock offset: 0.093 ms
Remote clock offset: -0.616 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 103.83 Mbit/s
  95th percentile per-packet one-way delay: 137.044 ms
  Loss rate: 2.04%
-- Flow 1:
  Average throughput: 53.80 Mbit/s
  95th percentile per-packet one-way delay: 137.077 ms
  Loss rate: 1.34%
-- Flow 2:
  Average throughput: 54.37 Mbit/s
  95th percentile per-packet one-way delay: 136.318 ms
  Loss rate: 1.86%
-- Flow 3:
  Average throughput: 37.25 Mbit/s
  95th percentile per-packet one-way delay: 136.417 ms
  Loss rate: 5.41%
Run 1: Report of QUIC Cubic — Data Link

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

Throughput (Mbps) vs Time (s)

- Flow 1 ingress (mean 54.02 Mbps)
- Flow 1 egress (mean 53.80 Mbps)
- Flow 2 ingress (mean 54.65 Mbps)
- Flow 2 egress (mean 54.37 Mbps)
- Flow 3 ingress (mean 38.33 Mbps)
- Flow 3 egress (mean 37.25 Mbps)

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

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

- Flow 1 (95th percentile 137.08 ms)
- Flow 2 (95th percentile 136.32 ms)
- Flow 3 (95th percentile 136.42 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 15:05:51
End at: 2018-05-25 15:06:21
Local clock offset: 0.022 ms
Remote clock offset: -0.639 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.86 Mbit/s
  95th percentile per-packet one-way delay: 136.662 ms
  Loss rate: 1.47%
-- Flow 1:
  Average throughput: 54.27 Mbit/s
  95th percentile per-packet one-way delay: 136.673 ms
  Loss rate: 1.27%
-- Flow 2:
  Average throughput: 47.56 Mbit/s
  95th percentile per-packet one-way delay: 136.655 ms
  Loss rate: 2.14%
-- Flow 3:
  Average throughput: 34.24 Mbit/s
  95th percentile per-packet one-way delay: 136.450 ms
  Loss rate: 0.51%
Run 2: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 54.47 Mbps)
  - Flow 1 egress (mean 54.27 Mbps)
  - Flow 2 ingress (mean 47.95 Mbps)
  - Flow 2 egress (mean 47.56 Mbps)
  - Flow 3 ingress (mean 33.68 Mbps)
  - Flow 3 egress (mean 34.24 Mbps)

- **Packet round-trip delay (ms):**
  - Flow 1 (95th percentile 136.67 ms)
  - Flow 2 (95th percentile 136.66 ms)
  - Flow 3 (95th percentile 136.45 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 15:30:46
End at: 2018-05-25 15:31:16
Local clock offset: 0.307 ms
Remote clock offset: -0.629 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 136.840 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 136.555 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 50.64 Mbit/s
95th percentile per-packet one-way delay: 136.514 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 136.950 ms
Loss rate: 1.80%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 15:56:00
End at: 2018-05-25 15:56:30
Local clock offset: -0.003 ms
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.27 Mbit/s
  95th percentile per-packet one-way delay: 136.510 ms
  Loss rate: 2.02%
-- Flow 1:
  Average throughput: 51.49 Mbit/s
  95th percentile per-packet one-way delay: 136.498 ms
  Loss rate: 1.27%
-- Flow 2:
  Average throughput: 49.47 Mbit/s
  95th percentile per-packet one-way delay: 136.515 ms
  Loss rate: 2.11%
-- Flow 3:
  Average throughput: 37.00 Mbit/s
  95th percentile per-packet one-way delay: 136.536 ms
  Loss rate: 4.85%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

End at: 2018-05-25 16:21:45
Local clock offset: 0.026 ms
Remote clock offset: -0.556 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.87 Mbit/s
95th percentile per-packet one-way delay: 136.887 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 44.53 Mbit/s
95th percentile per-packet one-way delay: 136.770 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 136.936 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 136.658 ms
Loss rate: 6.81%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Local clock offset: 0.1 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 135.965 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 135.969 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 44.40 Mbit/s
95th percentile per-packet one-way delay: 135.955 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 135.969 ms
Loss rate: 5.03%
Run 6: Report of QUIC Cubic — Data Link

![Graph showing network throughput and packet round-trip times over time.]

- **Flow 1 Ingress (mean 52.57 Mbps)**
- **Flow 1 Egress (mean 52.37 Mbps)**
- **Flow 2 Ingress (mean 44.83 Mbps)**
- **Flow 2 Egress (mean 44.40 Mbps)**
- **Flow 3 Ingress (mean 42.20 Mbps)**
- **Flow 3 Egress (mean 41.21 Mbps)**

![Graph showing packet round-trip times over time.]

- **Flow 1 (95th percentile 135.97 ms)**
- **Flow 2 (95th percentile 135.96 ms)**
- **Flow 3 (95th percentile 135.97 ms)**
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 17:11:24
End at: 2018-05-25 17:11:54
Local clock offset: -0.228 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.19 Mbit/s
95th percentile per-packet one-way delay: 135.571 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 135.152 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 53.24 Mbit/s
95th percentile per-packet one-way delay: 135.615 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 134.349 ms
Loss rate: 0.00%
Run 7: Report of QUIC Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 53.06 Mbps)
Flow 1 egress (mean 52.92 Mbps)
Flow 2 ingress (mean 53.37 Mbps)
Flow 2 egress (mean 53.24 Mbps)
Flow 3 ingress (mean 33.19 Mbps)
Flow 3 egress (mean 34.06 Mbps)

Per packet round trip delay (ms)

Time (s)

Flow 1 (95th percentile 135.15 ms)
Flow 2 (95th percentile 135.62 ms)
Flow 3 (95th percentile 134.35 ms)
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 17:36:38
End at: 2018-05-25 17:37:08
Local clock offset: -0.151 ms
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.27 Mbit/s
95th percentile per-packet one-way delay: 136.147 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 63.78 Mbit/s
95th percentile per-packet one-way delay: 136.156 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 42.12 Mbit/s
95th percentile per-packet one-way delay: 136.152 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 63.34 Mbit/s
95th percentile per-packet one-way delay: 135.726 ms
Loss rate: 1.48%
Run 8: Report of QUIC Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 63.91 Mbit/s)
- Flow 1 egress (mean 63.78 Mbit/s)
- Flow 2 ingress (mean 42.35 Mbit/s)
- Flow 2 egress (mean 42.12 Mbit/s)
- Flow 3 ingress (mean 62.55 Mbit/s)
- Flow 3 egress (mean 63.34 Mbit/s)

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Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 18:02:04
End at: 2018-05-25 18:02:34
Local clock offset: 0.12 ms
Remote clock offset: -0.567 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 101.85 Mbit/s
  95th percentile per-packet one-way delay: 136.299 ms
  Loss rate: 2.00%
-- Flow 1:
  Average throughput: 55.34 Mbit/s
  95th percentile per-packet one-way delay: 135.396 ms
  Loss rate: 1.24%
-- Flow 2:
  Average throughput: 50.15 Mbit/s
  95th percentile per-packet one-way delay: 135.114 ms
  Loss rate: 2.05%
-- Flow 3:
  Average throughput: 41.00 Mbit/s
  95th percentile per-packet one-way delay: 136.400 ms
  Loss rate: 4.90%
Run 9: Report of QUIC Cubic — Data Link

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

Local clock offset: -0.013 ms
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.24 Mbit/s
95th percentile per-packet one-way delay: 135.786 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 52.56 Mbit/s
95th percentile per-packet one-way delay: 134.817 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 135.850 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 134.895 ms
Loss rate: 5.34%
Run 10: Report of QUIC Cubic — Data Link

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

The graphs show the throughput and per-packet one-way delay for different flows over time. The legend indicates the mean values for each flow:
- **Flow 1 ingress (mean 52.77 Mbit/s)**
- **Flow 1 egress (mean 52.56 Mbit/s)**
- **Flow 2 ingress (mean 50.60 Mbit/s)**
- **Flow 2 egress (mean 50.27 Mbit/s)**
- **Flow 3 ingress (mean 45.41 Mbit/s)**
- **Flow 3 egress (mean 44.20 Mbit/s)**

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Run 1: Statistics of SCReAM

Start at: 2018-05-25 14:43:45
End at: 2018-05-25 14:44:15
Local clock offset: -0.005 ms
Remote clock offset: -0.266 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 136.337 ms
  Loss rate: 1.36%
  -- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.570 ms
  Loss rate: 0.89%
  -- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.386 ms
  Loss rate: 1.43%
  -- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.087 ms
  Loss rate: 2.59%
Run 2: Statistics of SCReAM

Start at: 2018-05-25 15:08:47
End at: 2018-05-25 15:09:17
Local clock offset: 0.248 ms
Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.177 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.955 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.170 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.225 ms
Loss rate: 2.25%
Run 2: Report of SCReAM — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, with annotations for each flow's ingress and egress data rate and delay metrics.]
Run 3: Statistics of SCReAM

End at: 2018-05-25 15:34:17
Local clock offset: 0.391 ms
Remote clock offset: -0.64 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.409 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.123 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.456 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.174 ms
Loss rate: 2.59%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Local clock offset: -0.025 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.299 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.336 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.992 ms
Loss rate: 2.59%
Run 4: Report of SCReAM — Data Link

![Graph of Throughput and Delay](image)

**Throughput (Mbps)**

**Time (s)**

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

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

- Flow 1 (95th percentile 136.27 ms)
- Flow 2 (95th percentile 136.34 ms)
- Flow 3 (95th percentile 134.99 ms)
Run 5: Statistics of SCReAM

Local clock offset: 0.078 ms
Remote clock offset: -0.622 ms

# Below is generated by plot.py at 2018-05-25 20:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.862 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.332 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 2.59%
Run 5: Report of SCReAM — Data Link

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

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

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 136.86 ms)
  - Flow 2 (95th percentile 135.33 ms)
  - Flow 3 (95th percentile 136.85 ms)
Run 6: Statistics of SCReAM

Local clock offset: -0.129 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 136.344 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.372 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.796 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.905 ms
  Loss rate: 2.59%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

End at: 2018-05-25 17:14:52
Local clock offset: 0.057 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 136.495 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.000 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.518 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.411 ms
  Loss rate: 2.59%
Run 8: Statistics of SCReAM

End at: 2018-05-25 17:40:08
Local clock offset: 0.14 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 136.106 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.127 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.041 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.036 ms
  Loss rate: 2.59%
Run 8: Report of SCReAM — Data Link

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

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 136.13 ms)
- Flow 2 (95th percentile 136.04 ms)
- Flow 3 (95th percentile 136.04 ms)
Run 9: Statistics of SCReAM

Start at: 2018-05-25 18:05:07  
End at: 2018-05-25 18:05:37  
Local clock offset: -0.121 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-25 20:39:10  
# Datalink statistics
  -- Total of 3 flows:  
  Average throughput: 0.44 Mbit/s  
  95th percentile per-packet one-way delay: 136.024 ms  
  Loss rate: 1.36%  
  -- Flow 1:  
  Average throughput: 0.22 Mbit/s  
  95th percentile per-packet one-way delay: 136.046 ms  
  Loss rate: 0.89%  
  -- Flow 2:  
  Average throughput: 0.22 Mbit/s  
  95th percentile per-packet one-way delay: 135.430 ms  
  Loss rate: 1.43%  
  -- Flow 3:  
  Average throughput: 0.22 Mbit/s  
  95th percentile per-packet one-way delay: 135.953 ms  
  Loss rate: 2.59%
Run 9: Report of SCReAM — Data Link

![Graph of Throughput vs Time](image1)

![Graph of Packet Round-trip Time vs Time](image2)
Run 10: Statistics of SCReAM

Start at: 2018-05-25 18:30:12
End at: 2018-05-25 18:30:42
Local clock offset: -0.293 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 136.128 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 136.153 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.742 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.695 ms
  Loss rate: 2.59%
Run 10: Report of SCReAM — Data Link

[Graphs showing data link performance metrics over time]
Run 1: Statistics of Sprout

Start at: 2018-05-25 14:51:18
End at: 2018-05-25 14:51:48
Local clock offset: 0.092 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.35 Mbit/s
  95th percentile per-packet one-way delay: 136.678 ms
  Loss rate: 1.24%
-- Flow 1:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 136.570 ms
  Loss rate: 1.13%
-- Flow 2:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 136.708 ms
  Loss rate: 1.09%
-- Flow 3:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 136.628 ms
  Loss rate: 1.71%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

End at: 2018-05-25 15:16:46
Local clock offset: 0.239 ms
Remote clock offset: -0.278 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 136.849 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.796 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.348 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 136.950 ms
Loss rate: 2.48%
Run 3: Statistics of Sprout

Local clock offset: 0.26 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.549 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.545 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.618 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.359 ms
Loss rate: 1.88%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-05-25 16:06:45
End at: 2018-05-25 16:07:15
Local clock offset: -0.176 ms
Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 136.080 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.110 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 135.789 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 135.732 ms
Loss rate: 1.41%
Run 4: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 0.18 Mbit/s)
- Flow 1 egress (mean 0.18 Mbit/s)
- Flow 2 ingress (mean 0.19 Mbit/s)
- Flow 2 egress (mean 0.19 Mbit/s)
- Flow 3 ingress (mean 0.26 Mbit/s)
- Flow 3 egress (mean 0.27 Mbit/s)

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

- Flow 1 (95th percentile 136.11 ms)
- Flow 2 (95th percentile 135.79 ms)
- Flow 3 (95th percentile 135.73 ms)
Run 5: Statistics of Sprout

Start at: 2018-05-25 16:31:40
End at: 2018-05-25 16:32:10
Local clock offset: 0.112 ms
Remote clock offset: -0.583 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.34 Mbit/s
  95th percentile per-packet one-way delay: 136.642 ms
  Loss rate: 1.53%
-- Flow 1:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 136.612 ms
  Loss rate: 1.01%
-- Flow 2:
  Average throughput: 0.19 Mbit/s
  95th percentile per-packet one-way delay: 136.659 ms
  Loss rate: 2.21%
-- Flow 3:
  Average throughput: 0.19 Mbit/s
  95th percentile per-packet one-way delay: 136.893 ms
  Loss rate: 1.44%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-05-25 16:56:52
Local clock offset: 0.048 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.33 Mbit/s
  95th percentile per-packet one-way delay: 136.555 ms
  Loss rate: 1.07%
-- Flow 1:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 136.007 ms
  Loss rate: 0.72%
-- Flow 2:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 135.931 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 136.651 ms
  Loss rate: 2.78%
Run 6: Report of Sprout — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 0.17 Mbit/s)
- Flow 1 egress (mean 0.17 Mbit/s)
- Flow 2 ingress (mean 0.17 Mbit/s)
- Flow 2 egress (mean 0.17 Mbit/s)
- Flow 3 ingress (mean 0.17 Mbit/s)
- Flow 3 egress (mean 0.17 Mbit/s)

Graph 2: Per-packet end-to-end delay (ms)
- Flow 1 (95th percentile 136.01 ms)
- Flow 2 (95th percentile 135.93 ms)
- Flow 3 (95th percentile 136.65 ms)
Run 7: Statistics of Sprout

Start at: 2018-05-25 17:22:02
Local clock offset: 0.355 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.382 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.350 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 136.401 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.602 ms
Loss rate: 1.66%
Run 7: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.17 Mbit/s)
Flow 1 egress (mean 0.17 Mbit/s)
Flow 2 ingress (mean 0.18 Mbit/s)
Flow 2 egress (mean 0.18 Mbit/s)
Flow 3 ingress (mean 0.22 Mbit/s)
Flow 3 egress (mean 0.22 Mbit/s)

Delay (ms)

Time (s)

Flow 1 (95th percentile 136.35 ms)
Flow 2 (95th percentile 136.40 ms)
Flow 3 (95th percentile 136.60 ms)
Run 8: Statistics of Sprout

Start at: 2018-05-25 17:47:26
End at: 2018-05-25 17:47:56
Local clock offset: -0.149 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 136.516 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 135.972 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 135.832 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 136.622 ms
Loss rate: 2.11%
Run 8: Report of Sprout — Data Link

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

![Graph 2: Per-Packet End-to-End Delay vs Time](image2)
Run 9: Statistics of Sprout

Start at: 2018-05-25 18:12:45
Local clock offset: -0.113 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 136.351 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.961 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.414 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.272 ms
Loss rate: 3.13%
Run 9: Report of Sprout — Data Link

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

![Graph 2: Time vs. End-to-End Delay](image2)
Run 10: Statistics of Sprout

Start at: 2018-05-25 18:38:01
End at: 2018-05-25 18:38:31
Local clock offset: 0.107 ms
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 136.535 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 135.152 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.595 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 136.174 ms
Loss rate: 1.94%
Run 10: Report of Sprout — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 0.17 Mbps)
  - Flow 1 egress (mean 0.17 Mbps)
  - Flow 2 ingress (mean 0.19 Mbps)
  - Flow 2 egress (mean 0.19 Mbps)
  - Flow 3 ingress (mean 0.20 Mbps)
  - Flow 3 egress (mean 0.20 Mbps)

- **One-Way Delay (ms):**
  - Flow 1 (95th percentile 135.15 ms)
  - Flow 2 (95th percentile 138.59 ms)
  - Flow 3 (95th percentile 136.17 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 14:47:01
Local clock offset: 0.055 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 188.48 Mbit/s
95th percentile per-packet one-way delay: 136.742 ms
Loss rate: 2.25%

-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 136.626 ms
Loss rate: 0.92%

-- Flow 2:
Average throughput: 197.26 Mbit/s
95th percentile per-packet one-way delay: 136.594 ms
Loss rate: 1.61%

-- Flow 3:
Average throughput: 136.14 Mbit/s
95th percentile per-packet one-way delay: 137.268 ms
Loss rate: 4.45%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

End at: 2018-05-25 15:12:28
Local clock offset: -0.104 ms
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2018-05-25 20:39:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.81 Mbit/s
95th percentile per-packet one-way delay: 136.617 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 136.027 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 194.01 Mbit/s
95th percentile per-packet one-way delay: 136.426 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 165.28 Mbit/s
95th percentile per-packet one-way delay: 137.323 ms
Loss rate: 3.60%
Run 2: Report of TaoVA-100x — Data Link

![Graph of throughput and packet delivery delay over time]

- **Throughput (Mbps)**
- **Time (s)**
- **Flow 1 ingress (mean 13.26 Mbps)**
- **Flow 1 egress (mean 13.28 Mbps)**
- **Flow 2 ingress (mean 194.12 Mbps)**
- **Flow 2 egress (mean 194.01 Mbps)**
- **Flow 3 ingress (mean 166.69 Mbps)**
- **Flow 3 egress (mean 165.28 Mbps)**

- **Per packet one-way delay (ms)**
- **Flow 1 (95th percentile 136.03 ms)**
- **Flow 2 (95th percentile 136.43 ms)**
- **Flow 3 (95th percentile 137.32 ms)**

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Run 3: Statistics of TaoVA-100x

Local clock offset: 0.143 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-05-25 20:43:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 334.32 Mbit/s
  95th percentile per-packet one-way delay: 137.409 ms
  Loss rate: 1.23%
-- Flow 1:
  Average throughput: 199.90 Mbit/s
  95th percentile per-packet one-way delay: 137.173 ms
  Loss rate: 1.05%
-- Flow 2:
  Average throughput: 196.58 Mbit/s
  95th percentile per-packet one-way delay: 137.945 ms
  Loss rate: 1.47%
-- Flow 3:
  Average throughput: 12.55 Mbit/s
  95th percentile per-packet one-way delay: 136.642 ms
  Loss rate: 2.81%
Run 3: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 200.17 Mbit/s)
- Flow 1 egress (mean 199.90 Mbit/s)
- Flow 2 ingress (mean 196.77 Mbit/s)
- Flow 2 egress (mean 196.58 Mbit/s)
- Flow 3 ingress (mean 12.56 Mbit/s)
- Flow 3 egress (mean 12.55 Mbit/s)

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

- Flow 1 (95th percentile 137.17 ms)
- Flow 2 (95th percentile 137.94 ms)
- Flow 3 (95th percentile 136.64 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 16:02:11
End at: 2018-05-25 16:02:41
Local clock offset: 0.27 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-05-25 20:44:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.06 Mbit/s
95th percentile per-packet one-way delay: 137.837 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 169.13 Mbit/s
95th percentile per-packet one-way delay: 136.853 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 184.69 Mbit/s
95th percentile per-packet one-way delay: 138.589 ms
Loss rate: 1.85%
-- Flow 3:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 139.414 ms
Loss rate: 3.76%
Run 4: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 169.41 Mbps)
  - Flow 1 egress (mean 169.13 Mbps)
  - Flow 2 ingress (mean 185.61 Mbps)
  - Flow 2 egress (mean 184.69 Mbps)
  - Flow 3 ingress (mean 162.74 Mbps)
  - Flow 3 egress (mean 163.00 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 136.85 ms)
  - Flow 2 (95th percentile 138.59 ms)
  - Flow 3 (95th percentile 139.41 ms)
Run 5: Statistics of TaoVA-100x

Local clock offset: -0.482 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-05-25 20:44:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 187.60 Mbit/s
95th percentile per-packet one-way delay: 136.395 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 135.336 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 189.46 Mbit/s
95th percentile per-packet one-way delay: 135.970 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 161.14 Mbit/s
95th percentile per-packet one-way delay: 138.045 ms
Loss rate: 2.93%
Run 5: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 9.47 Mbit/s)**
- **Flow 1 egress (mean 9.49 Mbit/s)**
- **Flow 2 ingress (mean 189.51 Mbit/s)**
- **Flow 2 egress (mean 189.46 Mbit/s)**
- **Flow 3 ingress (mean 161.80 Mbit/s)**
- **Flow 3 egress (mean 161.14 Mbit/s)**

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

- **Flow 1 (95th percentile 135.34 ms)**
- **Flow 2 (95th percentile 135.97 ms)**
- **Flow 3 (95th percentile 138.04 ms)**

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Run 6: Statistics of TaoVA-100x

End at: 2018-05-25 16:52:50
Local clock offset: 0.081 ms
Remote clock offset: -0.581 ms

# Below is generated by plot.py at 2018-05-25 20:44:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.77 Mbit/s
95th percentile per-packet one-way delay: 137.941 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 177.62 Mbit/s
95th percentile per-packet one-way delay: 137.873 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 197.26 Mbit/s
95th percentile per-packet one-way delay: 137.338 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 99.92 Mbit/s
95th percentile per-packet one-way delay: 178.997 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link

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

- **Throughput**
  - Flow 1 ingress (mean 176.14 Mbit/s)
  - Flow 1 egress (mean 177.62 Mbit/s)
  - Flow 2 ingress (mean 197.44 Mbit/s)
  - Flow 2 egress (mean 197.26 Mbit/s)
  - Flow 3 ingress (mean 100.45 Mbit/s)
  - Flow 3 egress (mean 99.92 Mbit/s)

- **Delay**
  - Flow 1 (95th percentile 137.97 ms)
  - Flow 2 (95th percentile 137.34 ms)
  - Flow 3 (95th percentile 179.00 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 17:17:34
End at: 2018-05-25 17:18:04
Local clock offset: -0.257 ms
Remote clock offset: -0.563 ms

# Below is generated by plot.py at 2018-05-25 20:47:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.50 Mbit/s
95th percentile per-packet one-way delay: 136.327 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 192.48 Mbit/s
95th percentile per-packet one-way delay: 136.321 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 137.18 Mbit/s
95th percentile per-packet one-way delay: 136.376 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 154.990 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Local clock offset: -0.111 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2018-05-25 20:50:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.00 Mbit/s
95th percentile per-packet one-way delay: 139.191 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 195.98 Mbit/s
95th percentile per-packet one-way delay: 137.245 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 180.20 Mbit/s
95th percentile per-packet one-way delay: 140.992 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 99.75 Mbit/s
95th percentile per-packet one-way delay: 146.739 ms
Loss rate: 3.52%
Run 8: Report of TaoVA-100x — Data Link

[Graph showing throughput and per-packet one-way delay]
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 18:08:20
End at: 2018-05-25 18:08:50
Local clock offset: 0.118 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-05-25 20:50:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.88 Mbit/s
95th percentile per-packet one-way delay: 135.801 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 199.64 Mbit/s
95th percentile per-packet one-way delay: 135.796 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 135.839 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 176.17 Mbit/s
95th percentile per-packet one-way delay: 135.870 ms
Loss rate: 2.99%
Run 9: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 199.87 Mbit/s)
- Flow 1 egress (mean 199.64 Mbit/s)
- Flow 2 ingress (mean 13.15 Mbit/s)
- Flow 2 egress (mean 13.15 Mbit/s)
- Flow 3 ingress (mean 176.73 Mbit/s)
- Flow 3 egress (mean 176.17 Mbit/s)

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

- Flow 1 (95th percentile 135.80 ms)
- Flow 2 (95th percentile 135.84 ms)
- Flow 3 (95th percentile 135.87 ms)
Run 10: Statistics of TaoVA-100x

End at: 2018-05-25 18:33:56
Local clock offset: 0.198 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.15 Mbit/s
95th percentile per-packet one-way delay: 137.053 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 182.95 Mbit/s
95th percentile per-packet one-way delay: 136.059 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 192.43 Mbit/s
95th percentile per-packet one-way delay: 137.583 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 152.22 Mbit/s
95th percentile per-packet one-way delay: 138.021 ms
Loss rate: 3.93%
Run 10: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 182.26 Mbit/s)**
- **Flow 1 egress (mean 182.95 Mbit/s)**
- **Flow 2 ingress (mean 191.38 Mbit/s)**
- **Flow 2 egress (mean 192.43 Mbit/s)**
- **Flow 3 ingress (mean 154.10 Mbit/s)**
- **Flow 3 egress (mean 152.22 Mbit/s)**

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

- **Flow 1 (95th percentile 136.06 ms)**
- **Flow 2 (95th percentile 137.58 ms)**
- **Flow 3 (95th percentile 138.02 ms)**
Run 1: Statistics of TCP Vegas

End at: 2018-05-25 14:56:22
Local clock offset: -0.22 ms
Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 137.90 Mbit/s
  95th percentile per-packet one-way delay: 143.267 ms
  Loss rate: 1.21%
-- Flow 1:
  Average throughput: 83.94 Mbit/s
  95th percentile per-packet one-way delay: 143.144 ms
  Loss rate: 0.97%
-- Flow 2:
  Average throughput: 81.29 Mbit/s
  95th percentile per-packet one-way delay: 143.369 ms
  Loss rate: 1.55%
-- Flow 3:
  Average throughput: 0.95 Mbit/s
  95th percentile per-packet one-way delay: 140.817 ms
  Loss rate: 5.29%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 15:20:51
Local clock offset: 0.003 ms
Remote clock offset: -0.253 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.03 Mbit/s
95th percentile per-packet one-way delay: 138.801 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 138.353 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 138.368 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 140.628 ms
Loss rate: 3.16%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 15:46:03
Local clock offset: 0.339 ms
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 139.598 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 138.790 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 25.03 Mbit/s
95th percentile per-packet one-way delay: 140.470 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 27.92 Mbit/s
95th percentile per-packet one-way delay: 139.996 ms
Loss rate: 3.15%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 16:11:16
End at: 2018-05-25 16:11:46
Local clock offset: -0.254 ms
Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.18 Mbit/s
95th percentile per-packet one-way delay: 137,140 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 28.22 Mbit/s
95th percentile per-packet one-way delay: 136,647 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 137,241 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 25.15 Mbit/s
95th percentile per-packet one-way delay: 137,609 ms
Loss rate: 2.97%
Run 4: Report of TCP Vegas — Data Link

![Diagram 1: Throughput vs Time]

- Flow 1 ingress (mean 28.24 Mbit/s)
- Flow 1 egress (mean 28.22 Mbit/s)
- Flow 2 ingress (mean 28.41 Mbit/s)
- Flow 2 egress (mean 28.37 Mbit/s)
- Flow 3 ingress (mean 25.07 Mbit/s)
- Flow 3 egress (mean 25.15 Mbit/s)

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

- Flow 1 (95th percentile 136.65 ms)
- Flow 2 (95th percentile 137.24 ms)
- Flow 3 (95th percentile 137.61 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 16:36:16
End at: 2018-05-25 16:36:46
Local clock offset: -0.135 ms
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.47 Mbit/s
95th percentile per-packet one-way delay: 138.211 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 42.36 Mbit/s
95th percentile per-packet one-way delay: 138.186 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 34.61 Mbit/s
95th percentile per-packet one-way delay: 137.079 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 140.238 ms
Loss rate: 3.00%
Run 5: Report of TCP Vegas — Data Link

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

Start at: 2018-05-25 17:01:24
End at: 2018-05-25 17:01:54
Local clock offset: 0.127 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.16 Mbit/s
95th percentile per-packet one-way delay: 141.483 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 141.695 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 138.481 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 26.69 Mbit/s
95th percentile per-packet one-way delay: 137.950 ms
Loss rate: 3.07%
Run 6: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 84.23 Mbit/s)
- Flow 1 egress (mean 84.16 Mbit/s)
- Flow 2 ingress (mean 29.81 Mbit/s)
- Flow 2 egress (mean 29.85 Mbit/s)
- Flow 3 ingress (mean 26.78 Mbit/s)
- Flow 3 egress (mean 26.69 Mbit/s)

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

- Flow 1 (95th percentile 141.69 ms)
- Flow 2 (95th percentile 138.48 ms)
- Flow 3 (95th percentile 137.95 ms)
Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 17:26:35
End at: 2018-05-25 17:27:05
Local clock offset: 0.277 ms
Remote clock offset: -0.594 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.83 Mbit/s
95th percentile per-packet one-way delay: 146.548 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 145.703 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 147.332 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 144.343 ms
Loss rate: 3.28%
Run 7: Report of TCP Vegas — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 82.85 Mbit/s)
Flow 1 egress (mean 82.73 Mbit/s)
Flow 2 ingress (mean 79.38 Mbit/s)
Flow 2 egress (mean 79.24 Mbit/s)
Flow 3 ingress (mean 23.61 Mbit/s)
Flow 3 egress (mean 23.48 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 145.70 ms)
Flow 2 (95th percentile 147.33 ms)
Flow 3 (95th percentile 144.34 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 17:51:57
End at: 2018-05-25 17:52:27
Local clock offset: 0.201 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 138.923 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 137.337 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 21.22 Mbit/s
95th percentile per-packet one-way delay: 140.691 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 140.285 ms
Loss rate: 2.92%
Run 8: Report of TCP Vegas — Data Link

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**Graph 1:**
- **Throughput (Mbps):**
  - Flow 1 ingress (mean 31.28 Mbps)
  - Flow 1 egress (mean 31.27 Mbps)
  - Flow 2 ingress (mean 21.21 Mbps)
  - Flow 2 egress (mean 21.22 Mbps)
  - Flow 3 ingress (mean 22.93 Mbps)
  - Flow 3 egress (mean 22.88 Mbps)

**Graph 2:**
- **Round-trip delay (ms):**
  - Flow 1 (95th percentile 137.34 ms)
  - Flow 2 (95th percentile 140.69 ms)
  - Flow 3 (95th percentile 140.28 ms)

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Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 18:17:21
End at: 2018-05-25 18:17:51
Local clock offset: 0.164 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 51.70 Mbit/s
  95th percentile per-packet one-way delay: 137.183 ms
  Loss rate: 1.54%
-- Flow 1:
  Average throughput: 26.38 Mbit/s
  95th percentile per-packet one-way delay: 136.900 ms
  Loss rate: 0.97%
-- Flow 2:
  Average throughput: 23.75 Mbit/s
  95th percentile per-packet one-way delay: 136.749 ms
  Loss rate: 1.49%
-- Flow 3:
  Average throughput: 29.48 Mbit/s
  95th percentile per-packet one-way delay: 138.915 ms
  Loss rate: 3.16%
Run 9: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 26.40 Mbit/s)
- Flow 1 egress (mean 26.38 Mbit/s)
- Flow 2 ingress (mean 23.78 Mbit/s)
- Flow 2 egress (mean 23.75 Mbit/s)
- Flow 3 ingress (mean 29.81 Mbit/s)
- Flow 3 egress (mean 29.48 Mbit/s)

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

- Flow 1 (95th percentile 136.90 ms)
- Flow 2 (95th percentile 136.75 ms)
- Flow 3 (95th percentile 138.91 ms)
Run 10: Statistics of TCP Vegas

End at: 2018-05-25 18:43:05
Local clock offset: 0.241 ms
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 138.375 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 137.981 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 22.26 Mbit/s
95th percentile per-packet one-way delay: 139.284 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 137.967 ms
Loss rate: 3.40%
Run 10: Report of TCP Vegas — Data Link

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

![Graph 2: Per packet one way delay (ms)](image2)
Run 1: Statistics of Verus

Local clock offset: 0.006 ms
Remote clock offset: -0.637 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.92 Mbit/s
95th percentile per-packet one-way delay: 179.678 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 167.28 Mbit/s
95th percentile per-packet one-way delay: 176.833 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 185.813 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 27.53 Mbit/s
95th percentile per-packet one-way delay: 167.191 ms
Loss rate: 5.03%
Run 1: Report of Verus — Data Link

![Throughput Graph](chart1)

![Delay Graph](chart2)

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Run 2: Statistics of Verus

Start at: 2018-05-25 15:07:12
End at: 2018-05-25 15:07:42
Local clock offset: 0.191 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-05-25 20:52:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 229.82 Mbit/s
  95th percentile per-packet one-way delay: 204.963 ms
  Loss rate: 1.50%
-- Flow 1:
  Average throughput: 184.91 Mbit/s
  95th percentile per-packet one-way delay: 205.974 ms
  Loss rate: 1.26%
-- Flow 2:
  Average throughput: 42.64 Mbit/s
  95th percentile per-packet one-way delay: 153.969 ms
  Loss rate: 3.88%
-- Flow 3:
  Average throughput: 51.95 Mbit/s
  95th percentile per-packet one-way delay: 277.189 ms
  Loss rate: 0.01%
Run 2: Report of Verus — Data Link

![Graph showing network performance metrics]

**Throughput (Mbps)**
- **Flow 1 ingress** (mean 186.10 Mbps)
- **Flow 1 egress** (mean 184.91 Mbps)
- **Flow 2 ingress** (mean 43.75 Mbps)
- **Flow 2 egress** (mean 42.64 Mbps)
- **Flow 3 ingress** (mean 50.52 Mbps)
- **Flow 3 egress** (mean 51.95 Mbps)

**Per-packet one-way delay (ms)**
- **Flow 1 (95th percentile 205.97 ms)**
- **Flow 2 (95th percentile 153.97 ms)**
- **Flow 3 (95th percentile 277.19 ms)**
Run 3: Statistics of Verus

Start at: 2018-05-25 15:32:08
Local clock offset: 0.151 ms
Remote clock offset: -0.611 ms

# Below is generated by plot.py at 2018-05-25 20:53:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.06 Mbit/s
95th percentile per-packet one-way delay: 263.986 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 201.62 Mbit/s
95th percentile per-packet one-way delay: 230.056 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 106.60 Mbit/s
95th percentile per-packet one-way delay: 325.272 ms
Loss rate: 6.42%
-- Flow 3:
Average throughput: 73.93 Mbit/s
95th percentile per-packet one-way delay: 225.944 ms
Loss rate: 0.08%
Run 3: Report of Verus — Data Link

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

- Flow 1 ingress (mean 202.97 Mbit/s)
- Flow 1 egress (mean 201.62 Mbit/s)
- Flow 2 ingress (mean 112.93 Mbit/s)
- Flow 2 egress (mean 106.60 Mbit/s)
- Flow 3 ingress (mean 71.94 Mbit/s)
- Flow 3 egress (mean 73.93 Mbit/s)

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

- Flow 1 (95th percentile 230.06 ms)
- Flow 2 (95th percentile 325.27 ms)
- Flow 3 (95th percentile 225.94 ms)
Run 4: Statistics of Verus

End at: 2018-05-25 15:57:51
Local clock offset: -0.277 ms
Remote clock offset: -0.22 ms

# Below is generated by plot.py at 2018-05-25 20:53:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.67 Mbit/s
95th percentile per-packet one-way delay: 167.679 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 197.83 Mbit/s
95th percentile per-packet one-way delay: 168.114 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 164.161 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.20 Mbit/s
95th percentile per-packet one-way delay: 168.528 ms
Loss rate: 7.76%
Run 4: Report of Verus — Data Link

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

Local clock offset: 0.056 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-05-25 20:53:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.34 Mbit/s
95th percentile per-packet one-way delay: 186.890 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 177.587 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 148.16 Mbit/s
95th percentile per-packet one-way delay: 200.720 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 126.07 Mbit/s
95th percentile per-packet one-way delay: 183.508 ms
Loss rate: 0.75%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

End at: 2018-05-25 16:48:01
Local clock offset: -0.31 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-05-25 20:53:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.85 Mbit/s
95th percentile per-packet one-way delay: 219.035 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 141.92 Mbit/s
95th percentile per-packet one-way delay: 233.245 ms
Loss rate: 3.04%
-- Flow 2:
Average throughput: 167.83 Mbit/s
95th percentile per-packet one-way delay: 217.846 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 27.15 Mbit/s
95th percentile per-packet one-way delay: 166.884 ms
Loss rate: 7.58%
Run 6: Report of Verus — Data Link

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

- **Flow 1 ingress** (mean 145.50 Mbit/s)
- **Flow 1 egress** (mean 141.92 Mbit/s)
- **Flow 2 ingress** (mean 168.70 Mbit/s)
- **Flow 2 egress** (mean 167.83 Mbit/s)
- **Flow 3 ingress** (mean 28.55 Mbit/s)
- **Flow 3 egress** (mean 27.15 Mbit/s)

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

- **Flow 1 (95th percentile 233.25 ms)**
- **Flow 2 (95th percentile 217.85 ms)**
- **Flow 3 (95th percentile 166.88 ms)**
Run 7: Statistics of Verus

Start at: 2018-05-25 17:12:47
Local clock offset: -0.365 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2018-05-25 20:55:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.94 Mbit/s
95th percentile per-packet one-way delay: 246.671 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 154.14 Mbit/s
95th percentile per-packet one-way delay: 237.938 ms
Loss rate: 2.07%
-- Flow 2:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 149.389 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 169.24 Mbit/s
95th percentile per-packet one-way delay: 280.844 ms
Loss rate: 3.24%
Run 7: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 156.37 Mbps)
  - Flow 1 egress (mean 154.14 Mbps)
  - Flow 2 ingress (mean 53.78 Mbps)
  - Flow 2 egress (mean 54.39 Mbps)
  - Flow 3 ingress (mean 170.04 Mbps)
  - Flow 3 egress (mean 169.24 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 237.94 ms)
  - Flow 2 (95th percentile 149.39 ms)
  - Flow 3 (95th percentile 280.84 ms)
Run 8: Statistics of Verus

Start at: 2018-05-25 17:38:01
End at: 2018-05-25 17:38:31
Local clock offset: 0.163 ms
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-05-25 20:55:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.61 Mbit/s
95th percentile per-packet one-way delay: 287.077 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 236.535 ms
Loss rate: 3.47%
-- Flow 2:
Average throughput: 163.02 Mbit/s
95th percentile per-packet one-way delay: 290.034 ms
Loss rate: 5.49%
-- Flow 3:
Average throughput: 116.33 Mbit/s
95th percentile per-packet one-way delay: 323.696 ms
Loss rate: 11.22%
Run 8: Report of Verus — Data Link
Run 9: Statistics of Verus

Start at: 2018-05-25 18:03:26
End at: 2018-05-25 18:03:56
Local clock offset: 0.042 ms
Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2018-05-25 20:57:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.99 Mbit/s
95th percentile per-packet one-way delay: 187.834 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 188.495 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 106.75 Mbit/s
95th percentile per-packet one-way delay: 186.447 ms
Loss rate: 3.79%
-- Flow 3:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 181.794 ms
Loss rate: 11.41%
Run 9: Report of Verus — Data Link
Run 10: Statistics of Verus

End at: 2018-05-25 18:29:05
Local clock offset: 0.023 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-05-25 20:57:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 249.71 Mbit/s
  95th percentile per-packet one-way delay: 238.936 ms
  Loss rate: 2.08%
-- Flow 1:
  Average throughput: 146.19 Mbit/s
  95th percentile per-packet one-way delay: 157.562 ms
  Loss rate: 1.74%
-- Flow 2:
  Average throughput: 119.27 Mbit/s
  95th percentile per-packet one-way delay: 281.016 ms
  Loss rate: 2.18%
-- Flow 3:
  Average throughput: 78.37 Mbit/s
  95th percentile per-packet one-way delay: 231.255 ms
  Loss rate: 3.66%
Run 10: Report of Verus — Data Link

![Graph showing throughput over time for different flows.](image1)

<table>
<thead>
<tr>
<th>Flow</th>
<th>Ingress (mean)</th>
<th>Egress (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>147.69 Mbit/s</td>
<td>146.19 Mbit/s</td>
</tr>
<tr>
<td>2</td>
<td>120.24 Mbit/s</td>
<td>119.27 Mbit/s</td>
</tr>
<tr>
<td>3</td>
<td>79.98 Mbit/s</td>
<td>78.37 Mbit/s</td>
</tr>
</tbody>
</table>

![Graph showing packet delay over time for different flows.](image2)

<table>
<thead>
<tr>
<th>Flow</th>
<th>95th Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>157.56 ms</td>
</tr>
<tr>
<td>2</td>
<td>281.02 ms</td>
</tr>
<tr>
<td>3</td>
<td>231.25 ms</td>
</tr>
</tbody>
</table>
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 14:45:00
End at: 2018-05-25 14:45:30
Local clock offset: 0.154 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-05-25 21:02:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 545.34 Mbit/s
95th percentile per-packet one-way delay: 250.482 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 306.74 Mbit/s
95th percentile per-packet one-way delay: 141.747 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 302.91 Mbit/s
95th percentile per-packet one-way delay: 263.057 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 117.42 Mbit/s
95th percentile per-packet one-way delay: 137.745 ms
Loss rate: 4.33%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 15:10:02
End at: 2018-05-25 15:10:32
Local clock offset: -0.242 ms
Remote clock offset: -0.602 ms

# Below is generated by plot.py at 2018-05-25 21:02:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 489.76 Mbit/s
95th percentile per-packet one-way delay: 142.220 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 280.16 Mbit/s
95th percentile per-packet one-way delay: 141.189 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 254.39 Mbit/s
95th percentile per-packet one-way delay: 150.075 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 127.48 Mbit/s
95th percentile per-packet one-way delay: 136.935 ms
Loss rate: 4.98%
Run 2: Report of PCC-Vivace — Data Link

---

**Throughput (Mbps):**

- **Flow 1 ingress** (mean 279.88 Mbps)
- **Flow 1 egress** (mean 280.16 Mbps)
- **Flow 2 ingress** (mean 254.52 Mbps)
- **Flow 2 egress** (mean 254.39 Mbps)
- **Flow 3 ingress** (mean 130.41 Mbps)
- **Flow 3 egress** (mean 127.48 Mbps)

---

**Per-packet round-trip delay (ms):**

- **Flow 1** (95th percentile 141.19 ms)
- **Flow 2** (95th percentile 150.07 ms)
- **Flow 3** (95th percentile 136.94 ms)

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Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 15:35:02
End at: 2018-05-25 15:35:32
Local clock offset: 0.063 ms
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-05-25 21:02:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 466.91 Mbit/s
  95th percentile per-packet one-way delay: 169.247 ms
  Loss rate: 1.69%
-- Flow 1:
  Average throughput: 301.42 Mbit/s
  95th percentile per-packet one-way delay: 152.901 ms
  Loss rate: 1.00%
-- Flow 2:
  Average throughput: 181.98 Mbit/s
  95th percentile per-packet one-way delay: 136.888 ms
  Loss rate: 1.81%
-- Flow 3:
  Average throughput: 138.95 Mbit/s
  95th percentile per-packet one-way delay: 264.979 ms
  Loss rate: 5.75%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 16:00:14
End at: 2018-05-25 16:00:44
Local clock offset: 0.077 ms
Remote clock offset: -0.591 ms

# Below is generated by plot.py at 2018-05-25 21:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 496.15 Mbit/s
95th percentile per-packet one-way delay: 161.869 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 325.15 Mbit/s
95th percentile per-packet one-way delay: 148.164 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 174.46 Mbit/s
95th percentile per-packet one-way delay: 137.111 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 221.165 ms
Loss rate: 6.39%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

End at: 2018-05-25 16:25:56
Local clock offset: 0.486 ms
Remote clock offset: -0.599 ms

# Below is generated by plot.py at 2018-05-25 21:04:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 437.43 Mbit/s
95th percentile per-packet one-way delay: 214.947 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 280.60 Mbit/s
95th percentile per-packet one-way delay: 241.198 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 178.28 Mbit/s
95th percentile per-packet one-way delay: 138.545 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 119.87 Mbit/s
95th percentile per-packet one-way delay: 138.427 ms
Loss rate: 4.62%
Run 5: Report of PCC-Vivace — Data Link

![Graph showing throughput and packet delay](image1)

![Graph showing packet delay](image2)

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Run 6: Statistics of PCC-Vivace

End at: 2018-05-25 16:50:54
Local clock offset: 0.133 ms
Remote clock offset: -0.537 ms

# Below is generated by plot.py at 2018-05-25 21:04:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.49 Mbit/s
95th percentile per-packet one-way delay: 139.082 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 317.35 Mbit/s
95th percentile per-packet one-way delay: 140.434 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 197.00 Mbit/s
95th percentile per-packet one-way delay: 138.425 ms
Loss rate: 2.89%
-- Flow 3:
Average throughput: 113.49 Mbit/s
95th percentile per-packet one-way delay: 139.086 ms
Loss rate: 5.09%
Run 6: Report of PCC-Vivace — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows with varying ingress and egress speeds.]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 318.23 Mbps)
  - Flow 1 egress (mean 317.35 Mbps)
  - Flow 2 ingress (mean 200.07 Mbps)
  - Flow 2 egress (mean 197.00 Mbps)
  - Flow 3 ingress (mean 116.25 Mbps)
  - Flow 3 egress (mean 113.49 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 140.43 ms)
  - Flow 2 (95th percentile 138.43 ms)
  - Flow 3 (95th percentile 139.09 ms)
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 17:15:37
End at: 2018-05-25 17:16:07
Local clock offset: 0.237 ms
Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2018-05-25 21:05:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 486.69 Mbit/s
  95th percentile per-packet one-way delay: 162.643 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 304.91 Mbit/s
  95th percentile per-packet one-way delay: 142.433 ms
  Loss rate: 0.66%
-- Flow 2:
  Average throughput: 171.67 Mbit/s
  95th percentile per-packet one-way delay: 136.539 ms
  Loss rate: 1.74%
-- Flow 3:
  Average throughput: 210.49 Mbit/s
  95th percentile per-packet one-way delay: 235.333 ms
  Loss rate: 3.75%
Run 8: Statistics of PCC-Vivace

End at: 2018-05-25 17:41:23
Local clock offset: 0.092 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-05-25 21:05:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 530.44 Mbit/s
  95th percentile per-packet one-way delay: 141.866 ms
  Loss rate: 2.01%
-- Flow 1:
  Average throughput: 316.47 Mbit/s
  95th percentile per-packet one-way delay: 156.341 ms
  Loss rate: 1.69%
-- Flow 2:
  Average throughput: 261.28 Mbit/s
  95th percentile per-packet one-way delay: 137.338 ms
  Loss rate: 1.93%
-- Flow 3:
  Average throughput: 126.45 Mbit/s
  95th percentile per-packet one-way delay: 137.326 ms
  Loss rate: 4.74%
Run 8: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 318.96 Mbps)
Flow 1 egress (mean 316.47 Mbps)
Flow 2 ingress (mean 262.70 Mbps)
Flow 2 egress (mean 261.28 Mbps)
Flow 3 ingress (mean 126.07 Mbps)
Flow 3 egress (mean 126.45 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 156.34 ms)
Flow 2 (95th percentile 137.34 ms)
Flow 3 (95th percentile 137.33 ms)
Run 9: Statistics of PCC-Vivace

End at: 2018-05-25 18:06:52
Local clock offset: 0.404 ms
Remote clock offset: -0.544 ms

# Below is generated by plot.py at 2018-05-25 21:06:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.88 Mbit/s
95th percentile per-packet one-way delay: 141.638 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 312.49 Mbit/s
95th percentile per-packet one-way delay: 154.395 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 258.38 Mbit/s
95th percentile per-packet one-way delay: 138.792 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 112.19 Mbit/s
95th percentile per-packet one-way delay: 138.098 ms
Loss rate: 4.54%
Run 9: Report of PCC-Vivace — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 313.10 Mbps)
- Flow 1 egress (mean 312.49 Mbps)
- Flow 2 ingress (mean 258.69 Mbps)
- Flow 2 egress (mean 258.38 Mbps)
- Flow 3 ingress (mean 114.29 Mbps)
- Flow 3 egress (mean 112.19 Mbps)

**Per-packet one way delay (ms)**
- Flow 1 (95th percentile 154.40 ms)
- Flow 2 (95th percentile 138.79 ms)
- Flow 3 (95th percentile 138.10 ms)
Run 10: Statistics of PCC-Vivace

Local clock offset: 0.168 ms
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 528.56 Mbit/s
95th percentile per-packet one-way delay: 139.597 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 320.66 Mbit/s
95th percentile per-packet one-way delay: 162.725 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 259.35 Mbit/s
95th percentile per-packet one-way delay: 138.086 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 112.00 Mbit/s
95th percentile per-packet one-way delay: 137.218 ms
Loss rate: 4.82%
Run 10: Report of PCC-Vivace — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 322.11 Mbit/s)  Flow 1 egress (mean 320.66 Mbit/s)
Flow 2 ingress (mean 258.33 Mbit/s)  Flow 2 egress (mean 259.35 Mbit/s)
Flow 3 ingress (mean 114.33 Mbit/s)  Flow 3 egress (mean 112.00 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 162.72 ms)  Flow 2 (95th percentile 138.09 ms)  Flow 3 (95th percentile 137.22 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 14:59:30
End at: 2018-05-25 15:00:00
Local clock offset: 0.17 ms
Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 135.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 135.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.548 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.801 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Local clock offset: 0.327 ms
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 136.744 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.755 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.603 ms
  Loss rate: 0.00%
  -- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.796 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Graph showing throughput and delay over time for different flows.
Throughput (Mbps) on the y-axis, Time (s) on the x-axis.
Legend includes:
- 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)

Delay (ms) on the y-axis, Time (s) on the x-axis.
Legend includes:
- Flow 1 (95th percentile 136.75 ms)
- Flow 2 (95th percentile 136.60 ms)
- Flow 3 (95th percentile 136.80 ms)
Run 3: Statistics of WebRTC media

End at: 2018-05-25 15:50:11
Local clock offset: 0.503 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 137.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.997 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

- 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)
Run 4: Statistics of WebRTC media

Start at: 2018-05-25 16:14:50
End at: 2018-05-25 16:15:20
Local clock offset: -0.106 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 136.698 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.672 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.751 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.133 ms
  Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

End at: 2018-05-25 16:40:26
Local clock offset: -0.127 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.432 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.913 ms
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

- 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)
Run 6: Statistics of WebRTC media

Start at: 2018-05-25 17:05:08
End at: 2018-05-25 17:05:38
Local clock offset: 0.123 ms
Remote clock offset: -0.537 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 136.836 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.881 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.601 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 136.406 ms
  Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

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

- 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)
Run 7: Statistics of WebRTC media

Start at: 2018-05-25 17:30:16
End at: 2018-05-25 17:30:46
Local clock offset: 0.168 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.267 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.303 ms
Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

![Graph of throughput and packet delay](image-url)
Run 8: Statistics of WebRTC media

End at: 2018-05-25 17:56:05
Local clock offset: -0.006 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.457 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.513 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.359 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

![Throughput Data Link Chart](chart1.png)

![Packet Delay Data Link Chart](chart2.png)
Run 9: Statistics of WebRTC media

Local clock offset: 0.339 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.131 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 137.336 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link

![Graph showing data](image)

![Graph showing delay](image)
Run 10: Statistics of WebRTC media

Local clock offset: -0.201 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-05-25 21:06:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.222 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.061 ms
Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link