Pantheon Report

Generated at 2019-08-27 14:18:17 (UTC).

Data path: Colombia on p4p1 (remote) → AWS Brazil 2 on ens5 (local).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b777a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7ebea17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b0902d64fd45e12e923f9
third_party/genericCC @ d0153f8e594aa93b0332133cedbde58e652f4
third_party/indigo @ 201c92e4aa9058d38dc4dfe0ecdbf90077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad323da2955377730c74e486ca4966
third_party/muses-dtree @ 387225f7b5f61d6be92d708a8869ffbb97eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ d6da1459332fcee56963885d7ebea17e6a32d4519
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac08ab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc98f3c4f2
third_party/scream-reproduce @ f099118d1421aa313bf11ff1964974e1da3db
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366a35c6178b01e31d4a6ad18c74f941f5f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from Colombia to AWS Brazil 2, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
</tr>
</thead>
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<td>flow 3</td>
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<tr>
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<td>Copa</td>
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<td>46.44</td>
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<td>29.42</td>
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<td>Verus</td>
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<td>WebRTC media</td>
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<td>1.68</td>
<td>0.93</td>
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Run 1: Statistics of TCP BBR

Start at: 2019-08-27 11:45:27
End at: 2019-08-27 11:45:57
Local clock offset: 0.429 ms
Remote clock offset: -7.299 ms

# Below is generated by plot.py at 2019-08-27 14:03:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 509.367 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 54.58 Mbit/s
95th percentile per-packet one-way delay: 437.561 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 571.679 ms
Loss rate: 5.62%
-- Flow 3:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 426.448 ms
Loss rate: 7.28%
Run 2: Statistics of TCP BBR

Start at: 2019-08-27 12:16:24
End at: 2019-08-27 12:16:54
Local clock offset: 0.391 ms
Remote clock offset: -5.17 ms

# Below is generated by plot.py at 2019-08-27 14:03:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 504.722 ms
Loss rate: 4.18%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 406.534 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 573.578 ms
Loss rate: 5.67%
-- Flow 3:
Average throughput: 29.00 Mbit/s
95th percentile per-packet one-way delay: 678.230 ms
Loss rate: 8.38%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2019-08-27 12:47:22
End at: 2019-08-27 12:47:52
Local clock offset: -0.208 ms
Remote clock offset: -6.609 ms

# Below is generated by plot.py at 2019-08-27 14:03:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 467.288 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 57.14 Mbit/s
95th percentile per-packet one-way delay: 440.180 ms
Loss rate: 2.87%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 580.148 ms
Loss rate: 4.48%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 438.721 ms
Loss rate: 5.03%
Run 3: Report of TCP BBR — Data Link

![Graph showing network traffic](image-url)
Run 4: Statistics of TCP BBR

Start at: 2019-08-27 13:18:18
Local clock offset: 0.659 ms
Remote clock offset: -7.702 ms

# Below is generated by plot.py at 2019-08-27 14:03:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.54 Mbit/s
  95th percentile per-packet one-way delay: 512.581 ms
  Loss rate: 4.35%
-- Flow 1:
  Average throughput: 55.61 Mbit/s
  95th percentile per-packet one-way delay: 434.971 ms
  Loss rate: 2.22%
-- Flow 2:
  Average throughput: 36.80 Mbit/s
  95th percentile per-packet one-way delay: 734.419 ms
  Loss rate: 6.85%
-- Flow 3:
  Average throughput: 31.96 Mbit/s
  95th percentile per-packet one-way delay: 669.021 ms
  Loss rate: 9.14%
Run 4: Report of TCP BBR — Data Link

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

- **Flow 1 ingress** (mean 36.55 Mbit/s)
- **Flow 1 egress** (mean 55.61 Mbit/s)
- **Flow 2 ingress** (mean 39.16 Mbit/s)
- **Flow 2 egress** (mean 36.80 Mbit/s)
- **Flow 3 ingress** (mean 34.58 Mbit/s)
- **Flow 3 egress** (mean 31.96 Mbit/s)

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

- **Flow 1** (95th percentile 434.97 ms)
- **Flow 2** (95th percentile 734.42 ms)
- **Flow 3** (95th percentile 669.02 ms)
Run 5: Statistics of TCP BBR

End at: 2019-08-27 13:49:48
Local clock offset: -0.238 ms
Remote clock offset: -5.463 ms

# Below is generated by plot.py at 2019-08-27 14:03:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.18 Mbit/s
95th percentile per-packet one-way delay: 511.354 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 54.96 Mbit/s
95th percentile per-packet one-way delay: 447.040 ms
Loss rate: 2.93%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 722.142 ms
Loss rate: 4.59%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 601.025 ms
Loss rate: 7.54%
Run 5: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2019-08-27 11:40:16
End at: 2019-08-27 11:40:46
Local clock offset: 0.408 ms
Remote clock offset: -8.026 ms

# Below is generated by plot.py at 2019-08-27 14:04:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.56 Mbit/s
95th percentile per-packet one-way delay: 227.320 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 228.799 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 27.23 Mbit/s
95th percentile per-packet one-way delay: 135.936 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 26.16 Mbit/s
95th percentile per-packet one-way delay: 109.927 ms
Loss rate: 2.19%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2019-08-27 12:11:12
End at: 2019-08-27 12:11:42
Local clock offset: -0.372 ms
Remote clock offset: -5.07 ms

# Below is generated by plot.py at 2019-08-27 14:04:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.03 Mbit/s
95th percentile per-packet one-way delay: 227.060 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 228.826 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 155.102 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 192.252 ms
Loss rate: 2.38%
Run 2: Report of Copa — Data Link

![Graph of Throughput](image)

![Graph of Per-packet one-way delay](image)
Run 3: Statistics of Copa

Start at: 2019-08-27 12:42:09
End at: 2019-08-27 12:42:39
Local clock offset: 0.555 ms
Remote clock offset: -6.363 ms

# Below is generated by plot.py at 2019-08-27 14:04:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 78.72 Mbit/s
  95th percentile per-packet one-way delay: 225.345 ms
  Loss rate: 0.83%
-- Flow 1:
  Average throughput: 43.36 Mbit/s
  95th percentile per-packet one-way delay: 225.391 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 39.15 Mbit/s
  95th percentile per-packet one-way delay: 231.025 ms
  Loss rate: 0.98%
-- Flow 3:
  Average throughput: 28.49 Mbit/s
  95th percentile per-packet one-way delay: 108.593 ms
  Loss rate: 1.98%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Local clock offset: 0.623 ms
Remote clock offset: -7.214 ms

# Below is generated by plot.py at 2019-08-27 14:05:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.45 Mbit/s
95th percentile per-packet one-way delay: 225.909 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 227.834 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 153.116 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 123.897 ms
Loss rate: 2.20%
Run 4: Report of Copa — Data Link

**Throughput (Mbps)**

- Flow 1 ingress (mean 47.85 Mbit/s)
- Flow 1 egress (mean 47.95 Mbit/s)
- Flow 2 ingress (mean 32.78 Mbit/s)
- Flow 2 egress (mean 32.84 Mbit/s)
- Flow 3 ingress (mean 32.68 Mbit/s)
- Flow 3 egress (mean 32.52 Mbit/s)

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

- Flow 1 (95th percentile 227.83 ms)
- Flow 2 (95th percentile 153.12 ms)
- Flow 3 (95th percentile 123.90 ms)
Run 5: Statistics of Copa

Start at: 2019-08-27 13:44:03
End at: 2019-08-27 13:44:33
Local clock offset: 0.471 ms
Remote clock offset: -6.775 ms

# Below is generated by plot.py at 2019-08-27 14:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.21 Mbit/s
95th percentile per-packet one-way delay: 228.052 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 49.69 Mbit/s
95th percentile per-packet one-way delay: 230.221 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 35.70 Mbit/s
95th percentile per-packet one-way delay: 112.301 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 26.78 Mbit/s
95th percentile per-packet one-way delay: 165.603 ms
Loss rate: 2.56%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 11:44:11
End at: 2019-08-27 11:44:41
Local clock offset: -0.348 ms
Remote clock offset: -6.768 ms

# Below is generated by plot.py at 2019-08-27 14:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.51 Mbit/s
95th percentile per-packet one-way delay: 183.416 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 42.44 Mbit/s
95th percentile per-packet one-way delay: 195.601 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 161.356 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 26.84 Mbit/s
95th percentile per-packet one-way delay: 190.100 ms
Loss rate: 2.03%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 12:15:07
End at: 2019-08-27 12:15:37
Local clock offset: -0.298 ms
Remote clock offset: -5.648 ms

# Below is generated by plot.py at 2019-08-27 14:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.23 Mbit/s
95th percentile per-packet one-way delay: 165.635 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 196.448 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 156.138 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 148.410 ms
Loss rate: 2.05%
Run 2: Report of TCP Cubic — Data Link

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

Start at: 2019-08-27 12:46:04
End at: 2019-08-27 12:46:34
Local clock offset: -0.203 ms
Remote clock offset: -4.962 ms

# Below is generated by plot.py at 2019-08-27 14:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 161.040 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 46.06 Mbit/s
95th percentile per-packet one-way delay: 166.630 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 147.887 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 26.59 Mbit/s
95th percentile per-packet one-way delay: 177.491 ms
Loss rate: 2.55%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 13:17:01
End at: 2019-08-27 13:17:31
Local clock offset: -0.135 ms
Remote clock offset: -8.242 ms

# Below is generated by plot.py at 2019-08-27 14:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.53 Mbit/s
95th percentile per-packet one-way delay: 207.084 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 48.93 Mbit/s
95th percentile per-packet one-way delay: 152.300 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 18.59 Mbit/s
95th percentile per-packet one-way delay: 219.241 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 272.550 ms
Loss rate: 2.15%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 13:48:00
End at: 2019-08-27 13:48:30
Local clock offset: -0.249 ms
Remote clock offset: -6.793 ms

# Below is generated by plot.py at 2019-08-27 14:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.28 Mbit/s
95th percentile per-packet one-way delay: 209.607 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 30.41 Mbit/s
95th percentile per-packet one-way delay: 240.789 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 204.825 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 36.87 Mbit/s
95th percentile per-packet one-way delay: 140.772 ms
Loss rate: 2.05%
Run 5: Report of TCP Cubic — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 30.31 Mbit/s)
Flow 1 egress (mean 30.41 Mbit/s)
Flow 2 ingress (mean 37.39 Mbit/s)
Flow 2 egress (mean 37.32 Mbit/s)
Flow 3 ingress (mean 36.99 Mbit/s)
Flow 3 egress (mean 36.87 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 240.79 ms)
Flow 2 (95th percentile 204.82 ms)
Flow 3 (95th percentile 140.77 ms)
Run 1: Statistics of FillP

Start at: 2019-08-27 11:28:36
End at: 2019-08-27 11:29:06
Local clock offset: 0.412 ms
Remote clock offset: -9.539 ms

# Below is generated by plot.py at 2019-08-27 14:06:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.26 Mbit/s
  95th percentile per-packet one-way delay: 257.386 ms
  Loss rate: 1.97%
-- Flow 1:
  Average throughput: 57.62 Mbit/s
  95th percentile per-packet one-way delay: 272.757 ms
  Loss rate: 1.42%
-- Flow 2:
  Average throughput: 38.89 Mbit/s
  95th percentile per-packet one-way delay: 237.074 ms
  Loss rate: 2.28%
-- Flow 3:
  Average throughput: 29.89 Mbit/s
  95th percentile per-packet one-way delay: 279.422 ms
  Loss rate: 4.27%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 58.13 Mbps)
  - Flow 1 egress (mean 57.62 Mbps)
  - Flow 2 ingress (mean 39.46 Mbps)
  - Flow 2 egress (mean 38.89 Mbps)
  - Flow 3 ingress (mean 30.77 Mbps)
  - Flow 3 egress (mean 29.89 Mbps)

- **Packet one-way delay (ms):**
  - Flow 1 (95th percentile 272.76 ms)
  - Flow 2 (95th percentile 237.07 ms)
  - Flow 3 (95th percentile 279.42 ms)
Run 2: Statistics of FillP

Start at: 2019-08-27 11:59:33
End at: 2019-08-27 12:00:03
Local clock offset: 0.466 ms
Remote clock offset: -5.576 ms

# Below is generated by plot.py at 2019-08-27 14:06:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 331.380 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 330.598 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 333.481 ms
Loss rate: 5.20%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 311.068 ms
Loss rate: 3.86%
Run 2: Report of FillP — Data Link

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

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

Legend:
- Flow 1 ingress (mean 56.96 Mbps)
- Flow 1 egress (mean 56.72 Mbps)
- Flow 2 ingress (mean 41.25 Mbps)
- Flow 2 egress (mean 39.42 Mbps)
- Flow 3 ingress (mean 30.63 Mbps)
- Flow 3 egress (mean 29.96 Mbps)

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Run 3: Statistics of FillP

Start at: 2019-08-27 12:30:30
End at: 2019-08-27 12:31:00
Local clock offset: -0.263 ms
Remote clock offset: -6.067 ms

# Below is generated by plot.py at 2019-08-27 14:06:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 320.550 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 56.80 Mbit/s
95th percentile per-packet one-way delay: 348.651 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 268.055 ms
Loss rate: 4.60%
-- Flow 3:
Average throughput: 29.92 Mbit/s
95th percentile per-packet one-way delay: 290.541 ms
Loss rate: 5.72%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2019-08-27 13:01:26
End at: 2019-08-27 13:01:56
Local clock offset: 0.593 ms
Remote clock offset: -6.662 ms

# Below is generated by plot.py at 2019-08-27 14:06:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.09 Mbit/s
  95th percentile per-packet one-way delay: 256.990 ms
  Loss rate: 2.86%
-- Flow 1:
  Average throughput: 56.99 Mbit/s
  95th percentile per-packet one-way delay: 281.367 ms
  Loss rate: 0.78%
-- Flow 2:
  Average throughput: 39.78 Mbit/s
  95th percentile per-packet one-way delay: 250.114 ms
  Loss rate: 6.21%
-- Flow 3:
  Average throughput: 29.51 Mbit/s
  95th percentile per-packet one-way delay: 213.479 ms
  Loss rate: 5.29%
Run 4: Report of FillP — Data Link

![Diagram showing throughput and packet delay over time for different flows.]
Run 5: Statistics of FillP

End at: 2019-08-27 13:32:54
Local clock offset: 0.526 ms
Remote clock offset: -6.479 ms

# Below is generated by plot.py at 2019-08-27 14:06:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 342.298 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 358.198 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 38.94 Mbit/s
95th percentile per-packet one-way delay: 243.479 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 253.350 ms
Loss rate: 2.55%
Run 5: Report of FillP — Data Link

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

Legend:
- Flow 1 ingress (mean 58.40 Mbit/s)
- Flow 1 egress (mean 57.52 Mbit/s)
- Flow 2 ingress (mean 39.62 Mbit/s)
- Flow 2 egress (mean 38.94 Mbit/s)
- Flow 3 ingress (mean 29.68 Mbit/s)
- Flow 3 egress (mean 28.79 Mbit/s)
Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 11:41:36
End at: 2019-08-27 11:42:06
Local clock offset: -0.353 ms
Remote clock offset: -7.925 ms

# Below is generated by plot.py at 2019-08-27 14:06:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.78 Mbit/s
  95th percentile per-packet one-way delay: 284.803 ms
  Loss rate: 1.67%
-- Flow 1:
  Average throughput: 57.23 Mbit/s
  95th percentile per-packet one-way delay: 291.004 ms
  Loss rate: 0.79%
-- Flow 2:
  Average throughput: 38.92 Mbit/s
  95th percentile per-packet one-way delay: 278.974 ms
  Loss rate: 2.99%
-- Flow 3:
  Average throughput: 29.62 Mbit/s
  95th percentile per-packet one-way delay: 324.113 ms
  Loss rate: 3.25%
Run 1: Report of FillP-Sheep — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 57.37 Mbit/s)  Flow 1 egress (mean 57.23 Mbit/s)
Flow 2 ingress (mean 39.82 Mbit/s)  Flow 2 egress (mean 38.92 Mbit/s)
Flow 3 ingress (mean 30.08 Mbit/s)  Flow 3 egress (mean 29.62 Mbit/s)

Delay (μs)

Time (s)

Flow 1 (95th percentile 291.00 ms)  Flow 2 (95th percentile 278.97 ms)  Flow 3 (95th percentile 324.11 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 12:12:32
End at: 2019-08-27 12:13:02
Local clock offset: 0.406 ms
Remote clock offset: -5.329 ms

# Below is generated by plot.py at 2019-08-27 14:07:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.69 Mbit/s
  95th percentile per-packet one-way delay: 298.378 ms
  Loss rate: 1.49%
-- Flow 1:
  Average throughput: 57.35 Mbit/s
  95th percentile per-packet one-way delay: 311.032 ms
  Loss rate: 1.08%
-- Flow 2:
  Average throughput: 38.38 Mbit/s
  95th percentile per-packet one-way delay: 221.538 ms
  Loss rate: 1.69%
-- Flow 3:
  Average throughput: 29.96 Mbit/s
  95th percentile per-packet one-way delay: 306.083 ms
  Loss rate: 3.29%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 12:43:29
End at: 2019-08-27 12:43:59
Local clock offset: -0.223 ms
Remote clock offset: -7.433 ms

# Below is generated by plot.py at 2019-08-27 14:07:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.89 Mbit/s
  95th percentile per-packet one-way delay: 289.912 ms
  Loss rate: 1.44%
-- Flow 1:
  Average throughput: 56.63 Mbit/s
  95th percentile per-packet one-way delay: 309.112 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 39.56 Mbit/s
  95th percentile per-packet one-way delay: 257.527 ms
  Loss rate: 2.54%
-- Flow 3:
  Average throughput: 30.38 Mbit/s
  95th percentile per-packet one-way delay: 325.369 ms
  Loss rate: 2.83%
Run 3: Report of FillP-Sheep — Data Link
Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 13:14:26
End at: 2019-08-27 13:14:56
Local clock offset: 0.643 ms
Remote clock offset: -6.189 ms

# Below is generated by plot.py at 2019-08-27 14:07:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 264.307 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 277.329 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 241.171 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 30.84 Mbit/s
95th percentile per-packet one-way delay: 354.703 ms
Loss rate: 4.27%
Run 4: Report of FillP-Sheep — Data Link

![Graph showing throughputs and packet one-way delays over time for different flows.]

- Flow 1 ingress (mean 57.14 Mbit/s)
- Flow 1 egress (mean 56.97 Mbit/s)
- Flow 2 ingress (mean 39.36 Mbit/s)
- Flow 2 egress (mean 39.10 Mbit/s)
- Flow 3 ingress (mean 31.67 Mbit/s)
- Flow 3 egress (mean 30.84 Mbit/s)

![Graph showing the 95th percentile delay for different flows.]

- Flow 1 (95th percentile 277.33 ms)
- Flow 2 (95th percentile 241.17 ms)
- Flow 3 (95th percentile 354.70 ms)
Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 13:45:24
End at: 2019-08-27 13:45:54
Local clock offset: 0.53 ms
Remote clock offset: -5.173 ms

# Below is generated by plot.py at 2019-08-27 14:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.89 Mbit/s
95th percentile per-packet one-way delay: 278.312 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 57.31 Mbit/s
95th percentile per-packet one-way delay: 290.504 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 38.61 Mbit/s
95th percentile per-packet one-way delay: 229.613 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 30.28 Mbit/s
95th percentile per-packet one-way delay: 324.569 ms
Loss rate: 2.98%
Run 5: Report of FillP-Sheep — Data Link

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

Legend for graphs:
- Flow 1 ingress (mean 57.58 Mbit/s)
- Flow 1 egress (mean 57.31 Mbit/s)
- Flow 2 ingress (mean 39.66 Mbit/s)
- Flow 2 egress (mean 38.61 Mbit/s)
- Flow 3 ingress (mean 30.71 Mbit/s)
- Flow 3 egress (mean 30.26 Mbit/s)
Run 1: Statistics of Indigo

End at: 2019-08-27 11:56:14
Local clock offset: -0.402 ms
Remote clock offset: -4.684 ms

# Below is generated by plot.py at 2019-08-27 14:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 387.502 ms
Loss rate: 5.58%
-- Flow 1:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 419.782 ms
Loss rate: 7.75%
-- Flow 2:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 155.289 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 29.17 Mbit/s
95th percentile per-packet one-way delay: 149.284 ms
Loss rate: 2.50%
Run 1: Report of Indigo — Data Link

![Graph of throughput and packet delay over time for different flows]
Run 2: Statistics of Indigo

Start at: 2019-08-27 12:26:41
End at: 2019-08-27 12:27:11
Local clock offset: 0.43 ms
Remote clock offset: -6.057 ms

# Below is generated by plot.py at 2019-08-27 14:07:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 394.491 ms
Loss rate: 5.56%
-- Flow 1:
Average throughput: 58.51 Mbit/s
95th percentile per-packet one-way delay: 430.636 ms
Loss rate: 7.64%
-- Flow 2:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 168.883 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 153.647 ms
Loss rate: 2.91%
Run 2: Report of Indigo — Data Link

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Throughput (Mbps)

<table>
<thead>
<tr>
<th>Flow 1 ingress (mean 62.99 Mbit/s)</th>
<th>Flow 1 egress (mean 58.51 Mbit/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 2 ingress (mean 39.14 Mbit/s)</td>
<td>Flow 2 egress (mean 38.88 Mbit/s)</td>
</tr>
<tr>
<td>Flow 3 ingress (mean 29.68 Mbit/s)</td>
<td>Flow 3 egress (mean 29.33 Mbit/s)</td>
</tr>
</tbody>
</table>

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Per-packet one-way delay (ms)

| Flow 1 (95th percentile 430.64 ms) | Flow 2 (95th percentile 168.88 ms) | Flow 3 (95th percentile 152.65 ms) |

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Run 3: Statistics of Indigo

Start at: 2019-08-27 12:57:38
End at: 2019-08-27 12:58:08
Local clock offset: -0.18 ms
Remote clock offset: -6.015 ms

# Below is generated by plot.py at 2019-08-27 14:08:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 382.271 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 58.36 Mbit/s
95th percentile per-packet one-way delay: 395.465 ms
Loss rate: 4.61%
-- Flow 2:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 203.240 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 29.19 Mbit/s
95th percentile per-packet one-way delay: 146.984 ms
Loss rate: 2.48%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

End at: 2019-08-27 13:29:05
Local clock offset: -0.197 ms
Remote clock offset: -7.098 ms

# Below is generated by plot.py at 2019-08-27 14:08:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 306.485 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 318.896 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 38.79 Mbit/s
95th percentile per-packet one-way delay: 153.321 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 160.764 ms
Loss rate: 2.93%
Run 4: Report of Indigo — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 58.62 Mbit/s)
Flow 1 egress (mean 57.89 Mbit/s)
Flow 2 ingress (mean 38.99 Mbit/s)
Flow 2 egress (mean 38.79 Mbit/s)
Flow 3 ingress (mean 29.98 Mbit/s)
Flow 3 egress (mean 29.62 Mbit/s)

Per packet one-way delay (ms)

Flow 1 (95th percentile 318.90 ms)
Flow 2 (95th percentile 153.32 ms)
Flow 3 (95th percentile 160.76 ms)
Run 5: Statistics of Indigo

End at: 2019-08-27 14:00:25
Local clock offset: -0.285 ms
Remote clock offset: -6.367 ms

# Below is generated by plot.py at 2019-08-27 14:08:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 406.641 ms
Loss rate: 5.60%
-- Flow 1:
Average throughput: 58.38 Mbit/s
95th percentile per-packet one-way delay: 434.619 ms
Loss rate: 7.87%
-- Flow 2:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 151.520 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 145.539 ms
Loss rate: 2.45%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 11:37:41  
End at: 2019-08-27 11:38:11  
Local clock offset: 0.41 ms  
Remote clock offset: -7.826 ms

# Below is generated by plot.py at 2019-08-27 14:08:21  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.86 Mbit/s  
  95th percentile per-packet one-way delay: 173.741 ms  
  Loss rate: 2.44%  
-- Flow 1:
  Average throughput: 60.28 Mbit/s  
  95th percentile per-packet one-way delay: 147.316 ms  
  Loss rate: 2.64%  
-- Flow 2:
  Average throughput: 39.88 Mbit/s  
  95th percentile per-packet one-way delay: 256.157 ms  
  Loss rate: 1.60%  
-- Flow 3:
  Average throughput: 29.29 Mbit/s  
  95th percentile per-packet one-way delay: 170.702 ms  
  Loss rate: 3.57%
Run 1: Report of Indigo-MusesC3 — Data Link

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

**Throughput (Mbps)**

- **Flow 1 ingress (mean 61.55 Mbps)**
- **Flow 1 egress (mean 60.28 Mbps)**
- **Flow 2 ingress (mean 40.14 Mbps)**
- **Flow 2 egress (mean 39.88 Mbps)**
- **Flow 3 ingress (mean 29.72 Mbps)**
- **Flow 3 egress (mean 29.29 Mbps)**

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

- **Flow 1 (95th percentile 147.32 ms)**
- **Flow 2 (95th percentile 256.16 ms)**
- **Flow 3 (95th percentile 170.70 ms)**
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:08:37  
End at: 2019-08-27 12:09:07  
Local clock offset: 0.472 ms  
Remote clock offset: -3.936 ms

# Below is generated by plot.py at 2019-08-27 14:08:32  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 94.43 Mbit/s  
  95th percentile per-packet one-way delay: 156.190 ms  
  Loss rate: 3.04%  
-- Flow 1:  
  Average throughput: 60.79 Mbit/s  
  95th percentile per-packet one-way delay: 153.566 ms  
  Loss rate: 2.92%  
-- Flow 2:  
  Average throughput: 39.79 Mbit/s  
  95th percentile per-packet one-way delay: 154.230 ms  
  Loss rate: 3.15%  
-- Flow 3:  
  Average throughput: 29.41 Mbit/s  
  95th percentile per-packet one-way delay: 161.906 ms  
  Loss rate: 3.67%
Run 2: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 62.24 Mbit/s)
- Flow 1 egress (mean 60.79 Mbit/s)
- Flow 2 ingress (mean 40.69 Mbit/s)
- Flow 2 egress (mean 39.79 Mbit/s)
- Flow 3 ingress (mean 29.88 Mbit/s)
- Flow 3 egress (mean 29.41 Mbit/s)

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

- Flow 1 (95th percentile 153.57 ms)
- Flow 2 (95th percentile 154.23 ms)
- Flow 3 (95th percentile 161.91 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:39:34
End at: 2019-08-27 12:40:04
Local clock offset: -0.242 ms
Remote clock offset: -4.837 ms

# Below is generated by plot.py at 2019-08-27 14:08:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.49 Mbit/s
95th percentile per-packet one-way delay: 150.637 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 60.45 Mbit/s
95th percentile per-packet one-way delay: 141.819 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 191.019 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 157.072 ms
Loss rate: 3.13%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 13:10:31
End at: 2019-08-27 13:11:01
Local clock offset: -0.158 ms
Remote clock offset: -7.672 ms

# Below is generated by plot.py at 2019-08-27 14:08:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 177.097 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 187.128 ms
Loss rate: 2.61%
-- Flow 2:
Average throughput: 40.03 Mbit/s
95th percentile per-packet one-way delay: 180.794 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 167.863 ms
Loss rate: 2.59%
Run 4: Report of Indigo-MusesC3 — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows with respective mean values and 95th percentile delays.]
Run 5: Statistics of Indigo-MusesC3

End at: 2019-08-27 13:41:58  
Local clock offset: 0.526 ms  
Remote clock offset: -6.764 ms

# Below is generated by plot.py at 2019-08-27 14:08:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.27 Mbit/s  
95th percentile per-packet one-way delay: 172.230 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 59.99 Mbit/s  
95th percentile per-packet one-way delay: 160.560 ms  
Loss rate: 2.20%  
-- Flow 2:  
Average throughput: 40.63 Mbit/s  
95th percentile per-packet one-way delay: 245.825 ms  
Loss rate: 2.95%  
-- Flow 3:  
Average throughput: 29.89 Mbit/s  
95th percentile per-packet one-way delay: 170.282 ms  
Loss rate: 3.44%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:35:06
End at: 2019-08-27 11:35:36
Local clock offset: -0.366 ms
Remote clock offset: -12.642 ms

# Below is generated by plot.py at 2019-08-27 14:09:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.70 Mbit/s
95th percentile per-packet one-way delay: 263.604 ms
Loss rate: 4.37%
-- Flow 1:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 243.182 ms
Loss rate: 4.37%
-- Flow 2:
Average throughput: 40.10 Mbit/s
95th percentile per-packet one-way delay: 290.872 ms
Loss rate: 4.17%
-- Flow 3:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 305.532 ms
Loss rate: 4.96%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:06:02
End at: 2019-08-27 12:06:32
Local clock offset: ~0.324 ms
Remote clock offset: ~4.582 ms

# Below is generated by plot.py at 2019-08-27 14:09:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 260.509 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 59.58 Mbit/s
95th percentile per-packet one-way delay: 269.993 ms
Loss rate: 3.25%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 220.844 ms
Loss rate: 3.38%
-- Flow 3:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 367.036 ms
Loss rate: 7.45%
Run 2: Report of Indigo-MusesC5 — Data Link

![Graph of Throughput and Latency](image)

- **Throughput**:
  - Flow 1 ingress (mean 61.22 Mbit/s)
  - Flow 1 egress (mean 59.58 Mbit/s)
  - Flow 2 ingress (mean 40.36 Mbit/s)
  - Flow 2 egress (mean 39.23 Mbit/s)
  - Flow 3 ingress (mean 32.39 Mbit/s)
  - Flow 3 egress (mean 30.58 Mbit/s)

- **Latency**:
  - Flow 1 (95th percentile 269.99 ms)
  - Flow 2 (95th percentile 220.84 ms)
  - Flow 3 (95th percentile 367.04 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:36:59
End at: 2019-08-27 12:37:29
Local clock offset: -0.306 ms
Remote clock offset: -6.763 ms

# Below is generated by plot.py at 2019-08-27 14:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.14 Mbit/s
95th percentile per-packet one-way delay: 267.377 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 252.258 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 291.413 ms
Loss rate: 3.48%
-- Flow 3:
Average throughput: 30.46 Mbit/s
95th percentile per-packet one-way delay: 309.229 ms
Loss rate: 7.03%
Run 3: Report of Indigo-MusesC5 — Data Link
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 13:07:56
End at: 2019-08-27 13:08:26
Local clock offset: 0.573 ms
Remote clock offset: -6.146 ms

# Below is generated by plot.py at 2019-08-27 14:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.32 Mbit/s
95th percentile per-packet one-way delay: 274.550 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 59.79 Mbit/s
95th percentile per-packet one-way delay: 271.083 ms
Loss rate: 3.56%
-- Flow 2:
Average throughput: 39.40 Mbit/s
95th percentile per-packet one-way delay: 308.305 ms
Loss rate: 4.15%
-- Flow 3:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 289.433 ms
Loss rate: 4.54%
Run 4: Report of Indigo-MusesC5 — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 61.62 Mbit/s) — Blue dashed line
Flow 1 egress (mean 59.79 Mbit/s) — Blue solid line
Flow 2 ingress (mean 40.73 Mbit/s) — Green dashed line
Flow 2 egress (mean 39.40 Mbit/s) — Green solid line
Flow 3 ingress (mean 30.42 Mbit/s) — Red dashed line
Flow 3 egress (mean 29.63 Mbit/s) — Red solid line

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 271.08 ms) — Blue dashed line
Flow 2 (95th percentile 308.31 ms) — Green dashed line
Flow 3 (95th percentile 289.43 ms) — Red dashed line

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Run 5: Statistics of Indigo-MusesC5

Local clock offset: -0.304 ms
Remote clock offset: -5.616 ms

# Below is generated by plot.py at 2019-08-27 14:09:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.86 Mbit/s
  95th percentile per-packet one-way delay: 261.898 ms
  Loss rate: 3.84%
-- Flow 1:
  Average throughput: 58.32 Mbit/s
  95th percentile per-packet one-way delay: 237.864 ms
  Loss rate: 3.25%
-- Flow 2:
  Average throughput: 43.00 Mbit/s
  95th percentile per-packet one-way delay: 261.980 ms
  Loss rate: 4.54%
-- Flow 3:
  Average throughput: 28.97 Mbit/s
  95th percentile per-packet one-way delay: 355.990 ms
  Loss rate: 5.63%
Run 5: Report of Indigo-MusesC5 — Data Link

![Graph 1: Throughput](image1)

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

End at: 2019-08-27 11:48:34
Local clock offset: 0.456 ms
Remote clock offset: -9.014 ms

# Below is generated by plot.py at 2019-08-27 14:09:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.03 Mbit/s
  95th percentile per-packet one-way delay: 219.591 ms
  Loss rate: 5.25%
-- Flow 1:
  Average throughput: 61.90 Mbit/s
  95th percentile per-packet one-way delay: 228.499 ms
  Loss rate: 6.48%
-- Flow 2:
  Average throughput: 37.63 Mbit/s
  95th percentile per-packet one-way delay: 159.709 ms
  Loss rate: 2.52%
-- Flow 3:
  Average throughput: 29.37 Mbit/s
  95th percentile per-packet one-way delay: 168.752 ms
  Loss rate: 3.54%
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:19:01
End at: 2019-08-27 12:19:31
Local clock offset: -0.285 ms
Remote clock offset: -4.73 ms

# Below is generated by plot.py at 2019-08-27 14:09:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 217.146 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 226.204 ms
Loss rate: 7.05%
-- Flow 2:
Average throughput: 35.78 Mbit/s
95th percentile per-packet one-way delay: 159.189 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 176.087 ms
Loss rate: 5.19%
Run 2: Report of Indigo-MusesD — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)
Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:49:58
End at: 2019-08-27 12:50:28
Local clock offset: -0.187 ms
Remote clock offset: -7.275 ms

# Below is generated by plot.py at 2019-08-27 14:09:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.78 Mbit/s
  95th percentile per-packet one-way delay: 222.650 ms
  Loss rate: 7.35%
-- Flow 1:
  Average throughput: 60.05 Mbit/s
  95th percentile per-packet one-way delay: 225.411 ms
  Loss rate: 5.75%
-- Flow 2:
  Average throughput: 40.57 Mbit/s
  95th percentile per-packet one-way delay: 225.778 ms
  Loss rate: 11.76%
-- Flow 3:
  Average throughput: 27.32 Mbit/s
  95th percentile per-packet one-way delay: 144.399 ms
  Loss rate: 3.74%
Run 3: Report of Indigo-MusesD — Data Link
Run 4: Statistics of Indigo-MusesD

Local clock offset: 0.659 ms
Remote clock offset: -7.111 ms

# Below is generated by plot.py at 2019-08-27 14:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 217.632 ms
Loss rate: 5.58%
-- Flow 1:
Average throughput: 62.65 Mbit/s
95th percentile per-packet one-way delay: 223.939 ms
Loss rate: 7.12%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 149.170 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 29.60 Mbit/s
95th percentile per-packet one-way delay: 142.799 ms
Loss rate: 3.85%
Run 4: Report of Indigo-MusesD — Data Link
Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 13:52:06
End at: 2019-08-27 13:52:36
Local clock offset: -0.244 ms
Remote clock offset: -5.423 ms

# Below is generated by plot.py at 2019-08-27 14:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 216.883 ms
Loss rate: 4.81%
-- Flow 1:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 222.463 ms
Loss rate: 5.66%
-- Flow 2:
Average throughput: 37.17 Mbit/s
95th percentile per-packet one-way delay: 165.882 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 30.27 Mbit/s
95th percentile per-packet one-way delay: 163.677 ms
Loss rate: 4.36%
Run 5: Report of Indigo-MusesD — Data Link

![Graph 1: Throughput (Mbps) vs Time (s)]
- Flow 1 ingress (mean 64.48 Mbps) (dashed blue)
- Flow 1 egress (mean 61.19 Mbps) (solid blue)
- Flow 2 ingress (mean 37.86 Mbps) (dashed green)
- Flow 2 egress (mean 37.17 Mbps) (solid green)
- Flow 3 ingress (mean 30.98 Mbps) (dashed red)
- Flow 3 egress (mean 30.27 Mbps) (solid red)

![Graph 2: Per-packet one-way delay (ms) vs Time (s)]
- Flow 1 (95th percentile 222.46 ms) (dashed blue)
- Flow 2 (95th percentile 165.88 ms) (dashed green)
- Flow 3 (95th percentile 163.68 ms) (dashed red)
Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 11:32:34
End at: 2019-08-27 11:33:04
Local clock offset: -0.417 ms
Remote clock offset: -7.925 ms

# Below is generated by plot.py at 2019-08-27 14:10:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.46 Mbit/s
  95th percentile per-packet one-way delay: 496.012 ms
  Loss rate: 6.51%
-- Flow 1:
  Average throughput: 58.53 Mbit/s
  95th percentile per-packet one-way delay: 487.393 ms
  Loss rate: 6.33%
-- Flow 2:
  Average throughput: 39.99 Mbit/s
  95th percentile per-packet one-way delay: 437.190 ms
  Loss rate: 6.17%
-- Flow 3:
  Average throughput: 29.74 Mbit/s
  95th percentile per-packet one-way delay: 550.460 ms
  Loss rate: 8.72%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 62.98 Mbps)
- Flow 1 egress (mean 58.53 Mbps)
- Flow 2 ingress (mean 42.24 Mbps)
- Flow 2 egress (mean 39.99 Mbps)
- Flow 3 ingress (mean 31.90 Mbps)
- Flow 3 egress (mean 29.74 Mbps)

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

- Flow 1 (95th percentile 487.39 ms)
- Flow 2 (95th percentile 437.12 ms)
- Flow 3 (95th percentile 550.46 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 12:03:30
End at: 2019-08-27 12:04:00
Local clock offset: -0.321 ms
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2019-08-27 14:10:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 492.143 ms
Loss rate: 7.02%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 485.752 ms
Loss rate: 7.30%
-- Flow 2:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 368.078 ms
Loss rate: 6.42%
-- Flow 3:
Average throughput: 25.40 Mbit/s
95th percentile per-packet one-way delay: 608.449 ms
Loss rate: 7.02%
Run 2: Report of Indigo-MusesT — Data Link

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

- **Flow 1 ingress (mean 61.54 Mbit/s)**
- **Flow 1 egress (mean 57.38 Mbit/s)**
- **Flow 2 ingress (mean 45.29 Mbit/s)**
- **Flow 2 egress (mean 42.60 Mbit/s)**
- **Flow 3 ingress (mean 26.81 Mbit/s)**
- **Flow 3 egress (mean 25.40 Mbit/s)**

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

- **Flow 1 (95th percentile 485.75 ms)**
- **Flow 2 (95th percentile 368.08 ms)**
- **Flow 3 (95th percentile 608.45 ms)**
Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 12:34:27
End at: 2019-08-27 12:34:57
Local clock offset: 0.473 ms
Remote clock offset: -5.377 ms

# Below is generated by plot.py at 2019-08-27 14:10:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 410.201 ms
Loss rate: 4.99%
-- Flow 1:
Average throughput: 59.24 Mbit/s
95th percentile per-packet one-way delay: 415.842 ms
Loss rate: 5.24%
-- Flow 2:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 376.341 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 409.523 ms
Loss rate: 8.53%
Run 3: Report of Indigo-MusesT — Data Link

The figure shows two graphs representing throughput and per-packet one-way delay over time for three flows.

**Throughput**
- Flow 1 ingress (mean 62.16 Mbit/s)
- Flow 1 egress (mean 59.24 Mbit/s)
- Flow 2 ingress (mean 43.19 Mbit/s)
- Flow 2 egress (mean 40.68 Mbit/s)
- Flow 3 ingress (mean 31.84 Mbit/s)
- Flow 3 egress (mean 29.53 Mbit/s)

**Per-packet one-way delay**
- Flow 1 (95th percentile 415.84 ms)
- Flow 2 (95th percentile 376.34 ms)
- Flow 3 (95th percentile 409.52 ms)
Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 13:05:24
End at: 2019-08-27 13:05:54
Local clock offset: -0.165 ms
Remote clock offset: -10.048 ms

# Below is generated by plot.py at 2019-08-27 14:10:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.22 Mbit/s
  95th percentile per-packet one-way delay: 532.461 ms
  Loss rate: 4.47%
-- Flow 1:
  Average throughput: 63.22 Mbit/s
  95th percentile per-packet one-way delay: 362.668 ms
  Loss rate: 4.27%
-- Flow 2:
  Average throughput: 34.11 Mbit/s
  95th percentile per-packet one-way delay: 1329.249 ms
  Loss rate: 3.43%
-- Flow 3:
  Average throughput: 32.44 Mbit/s
  95th percentile per-packet one-way delay: 400.216 ms
  Loss rate: 8.12%
Run 5: Statistics of Indigo-MusesT

Start at: 2019-08-27 13:36:21
End at: 2019-08-27 13:36:51
Local clock offset: 0.559 ms
Remote clock offset: -10.124 ms

# Below is generated by plot.py at 2019-08-27 14:10:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.02 Mbit/s
  95th percentile per-packet one-way delay: 333.062 ms
  Loss rate: 8.30%
-- Flow 1:
  Average throughput: 62.88 Mbit/s
  95th percentile per-packet one-way delay: 314.395 ms
  Loss rate: 6.77%
-- Flow 2:
  Average throughput: 46.98 Mbit/s
  95th percentile per-packet one-way delay: 354.535 ms
  Loss rate: 11.03%
-- Flow 3:
  Average throughput: 6.71 Mbit/s
  95th percentile per-packet one-way delay: 319.621 ms
  Loss rate: 13.25%
Run 5: Report of Indigo-MusesT — Data Link
Run 1: Statistics of LEDBAT

Start at: 2019-08-27 11:33:51
End at: 2019-08-27 11:34:21
Local clock offset: 0.406 ms
Remote clock offset: -8.835 ms

# Below is generated by plot.py at 2019-08-27 14:10:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 101.194 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 101.090 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 101.471 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 100.452 ms
Loss rate: 3.53%
Run 1: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 11.85 Mbit/s)**
- **Flow 1 egress (mean 11.78 Mbit/s)**
- **Flow 2 ingress (mean 7.97 Mbit/s)**
- **Flow 2 egress (mean 7.89 Mbit/s)**
- **Flow 3 ingress (mean 3.89 Mbit/s)**
- **Flow 3 egress (mean 3.82 Mbit/s)**

![Graph 2: Ping Pong Delay vs. Time](image2.png)

- **Flow 1 (95th percentile 101.09 ms)**
- **Flow 2 (95th percentile 101.47 ms)**
- **Flow 3 (95th percentile 100.45 ms)**
Run 2: Statistics of LEDEBAT

Start at: 2019-08-27 12:04:48
End at: 2019-08-27 12:05:18
Local clock offset: 0.394 ms
Remote clock offset: -4.572 ms

# Below is generated by plot.py at 2019-08-27 14:10:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.96 Mbit/s
95th percentile per-packet one-way delay: 101.884 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 101.976 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 101.532 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 101.263 ms
Loss rate: 3.31%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2019-08-27 12:35:45
End at: 2019-08-27 12:36:15
Local clock offset: -0.304 ms
Remote clock offset: -6.888 ms

# Below is generated by plot.py at 2019-08-27 14:10:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 18.20 Mbit/s
  95th percentile per-packet one-way delay: 100.621 ms
  Loss rate: 1.50%
  -- Flow 1:
    Average throughput: 11.83 Mbit/s
    95th percentile per-packet one-way delay: 100.556 ms
    Loss rate: 1.16%
  -- Flow 2:
    Average throughput: 7.78 Mbit/s
    95th percentile per-packet one-way delay: 100.519 ms
    Loss rate: 1.76%
  -- Flow 3:
    Average throughput: 3.77 Mbit/s
    95th percentile per-packet one-way delay: 100.890 ms
    Loss rate: 3.53%
Run 3: Report of LEDBAT — Data Link

![Graph of throughput over time](image1)

![Graph of one-way delay over time](image2)
Run 4: Statistics of LEDBAT

Start at: 2019-08-27 13:06:42
End at: 2019-08-27 13:07:12
Local clock offset: -0.16 ms
Remote clock offset: -7.065 ms

# Below is generated by plot.py at 2019-08-27 14:10:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.98 Mbit/s
95th percentile per-packet one-way delay: 101.234 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 100.970 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 101.624 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 100.062 ms
Loss rate: 3.28%
Run 4: Report of LEDBAT — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 11.65 Mbps)
  - Flow 1 egress (mean 11.58 Mbps)
  - Flow 2 ingress (mean 7.93 Mbps)
  - Flow 2 egress (mean 7.86 Mbps)
  - Flow 3 ingress (mean 3.77 Mbps)
  - Flow 3 egress (mean 3.71 Mbps)

- **Round-trip time (ms)**
  - Flow 1 (95th percentile 100.97 ms)
  - Flow 2 (95th percentile 101.62 ms)
  - Flow 3 (95th percentile 100.06 ms)
Run 5: Statistics of LEDBAT

End at: 2019-08-27 13:38:09
Local clock offset: 0.516 ms
Remote clock offset: -5.755 ms

# Below is generated by plot.py at 2019-08-27 14:10:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.70 Mbit/s
  95th percentile per-packet one-way delay: 102.130 ms
  Loss rate: 1.60%
-- Flow 1:
  Average throughput: 9.33 Mbit/s
  95th percentile per-packet one-way delay: 102.320 ms
  Loss rate: 1.25%
-- Flow 2:
  Average throughput: 7.77 Mbit/s
  95th percentile per-packet one-way delay: 101.203 ms
  Loss rate: 1.76%
-- Flow 3:
  Average throughput: 3.80 Mbit/s
  95th percentile per-packet one-way delay: 101.209 ms
  Loss rate: 3.53%
Run 5: Report of LEDBAT — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 9.39 Mbps)
  - Flow 1 egress (mean 9.33 Mbps)
  - Flow 2 ingress (mean 7.84 Mbps)
  - Flow 2 egress (mean 7.77 Mbps)
  - Flow 3 ingress (mean 3.87 Mbps)
  - Flow 3 egress (mean 3.80 Mbps)

- **Per-packet delay (ms):**
  - Flow 1 (95th percentile 102.32 ms)
  - Flow 2 (95th percentile 101.20 ms)
  - Flow 3 (95th percentile 101.21 ms)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 11:42:53
End at: 2019-08-27 11:43:23
Local clock offset: -0.351 ms
Remote clock offset: -10.413 ms

# Below is generated by plot.py at 2019-08-27 14:11:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.41 Mbit/s
95th percentile per-packet one-way delay: 161.186 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 55.70 Mbit/s
95th percentile per-packet one-way delay: 161.145 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 161.075 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 161.274 ms
Loss rate: 2.23%
Run 1: Report of Muses_DecimalTree — Data Link

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Graph 1: Throughput (Mbps)

Graph 2: Per-packet end-to-end delay (ms)

Legend:
- Flow 1 ingress (mean 56.11 Mbit/s)
- Flow 1 egress (mean 55.70 Mbit/s)
- Flow 2 ingress (mean 38.50 Mbit/s)
- Flow 2 egress (mean 38.44 Mbit/s)
- Flow 3 ingress (mean 29.44 Mbit/s)
- Flow 3 egress (mean 29.31 Mbit/s)

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Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 12:13:49
End at: 2019-08-27 12:14:19
Local clock offset: -0.348 ms
Remote clock offset: -5.311 ms

# Below is generated by plot.py at 2019-08-27 14:11:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 171.784 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 163.239 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 175.558 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 207.662 ms
Loss rate: 2.41%
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 12:44:47
End at: 2019-08-27 12:45:17
Local clock offset: -0.189 ms
Remote clock offset: -4.788 ms

# Below is generated by plot.py at 2019-08-27 14:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 161.402 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 164.903 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 146.092 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 30.18 Mbit/s
95th percentile per-packet one-way delay: 259.672 ms
Loss rate: 2.37%
Run 3: Report of Muses_DecisionTree — Data Link

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

- Flow 1 ingress (mean 54.98 Mbit/s)
- Flow 1 egress (mean 54.81 Mbit/s)
- Flow 2 ingress (mean 38.62 Mbit/s)
- Flow 2 egress (mean 37.93 Mbit/s)
- Flow 3 ingress (mean 30.37 Mbit/s)
- Flow 3 egress (mean 30.18 Mbit/s)
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 13:15:44
End at: 2019-08-27 13:16:14
Local clock offset: 0.583 ms
Remote clock offset: -8.548 ms

# Below is generated by plot.py at 2019-08-27 14:11:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.71 Mbit/s
  95th percentile per-packet one-way delay: 178.664 ms
  Loss rate: 1.19%
-- Flow 1:
  Average throughput: 55.10 Mbit/s
  95th percentile per-packet one-way delay: 157.298 ms
  Loss rate: 1.02%
-- Flow 2:
  Average throughput: 39.48 Mbit/s
  95th percentile per-packet one-way delay: 188.620 ms
  Loss rate: 0.99%
-- Flow 3:
  Average throughput: 29.73 Mbit/s
  95th percentile per-packet one-way delay: 239.121 ms
  Loss rate: 2.71%
Run 4: Report of Muses_DecisionTree — Data Link

Graph 1: Throughput vs. Time

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

Legend:
- Flow 1 ingress (mean 55.40 Mbit/s)
- Flow 1 egress (mean 55.10 Mbit/s)
- Flow 2 ingress (mean 39.53 Mbit/s)
- Flow 2 egress (mean 39.48 Mbit/s)
- Flow 3 ingress (mean 30.01 Mbit/s)
- Flow 3 egress (mean 29.73 Mbit/s)

Legend 2:
- Flow 1 (95th percentile 157.30 ms)
- Flow 2 (95th percentile 188.62 ms)
- Flow 3 (95th percentile 239.12 ms)
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 13:46:42
End at: 2019-08-27 13:47:12
Local clock offset: -0.24 ms
Remote clock offset: -5.319 ms

# Below is generated by plot.py at 2019-08-27 14:11:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 190.578 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 161.067 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 146.505 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 442.220 ms
Loss rate: 2.60%
Run 5: Report of Muses_DecisionTree — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 11:36:24
End at: 2019-08-27 11:36:54
Local clock offset: -0.362 ms
Remote clock offset: -8.358 ms

# Below is generated by plot.py at 2019-08-27 14:11:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 67.00 Mbit/s
  95th percentile per-packet one-way delay: 1251.865 ms
  Loss rate: 13.99%
-- Flow 1:
  Average throughput: 35.89 Mbit/s
  95th percentile per-packet one-way delay: 1229.668 ms
  Loss rate: 18.71%
-- Flow 2:
  Average throughput: 36.27 Mbit/s
  95th percentile per-packet one-way delay: 1293.266 ms
  Loss rate: 2.27%
-- Flow 3:
  Average throughput: 22.24 Mbit/s
  95th percentile per-packet one-way delay: 1376.785 ms
  Loss rate: 22.53%
Run 1: Report of Muses_DecisionTreeH0 — Data Link

---

**Throughput (Mbps)**

![Throughput Graph]

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

![Per-packet Delay Graph]

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Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 12:07:20
End at: 2019-08-27 12:07:50
Local clock offset: 0.411 ms
Remote clock offset: -5.664 ms

# Below is generated by plot.py at 2019-08-27 14:11:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 68.81 Mbit/s
  95th percentile per-packet one-way delay: 1142.728 ms
  Loss rate: 19.09%
-- Flow 1:
  Average throughput: 36.73 Mbit/s
  95th percentile per-packet one-way delay: 1264.547 ms
  Loss rate: 17.68%
-- Flow 2:
  Average throughput: 36.56 Mbit/s
  95th percentile per-packet one-way delay: 1015.019 ms
  Loss rate: 12.94%
-- Flow 3:
  Average throughput: 24.67 Mbit/s
  95th percentile per-packet one-way delay: 1393.945 ms
  Loss rate: 37.46%
Run 2: Report of Muses.DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 12:38:17
End at: 2019-08-27 12:38:47
Local clock offset: 0.482 ms
Remote clock offset: -5.352 ms

# Below is generated by plot.py at 2019-08-27 14:11:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.83 Mbit/s
95th percentile per-packet one-way delay: 1169.883 ms
Loss rate: 8.82%
-- Flow 1:
Average throughput: 38.52 Mbit/s
95th percentile per-packet one-way delay: 1183.758 ms
Loss rate: 4.45%
-- Flow 2:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 1173.403 ms
Loss rate: 18.07%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 1152.994 ms
Loss rate: 0.57%
Run 3: Report of Muses Decision Tree H0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 13:09:14
End at: 2019-08-27 13:09:44
Local clock offset: -0.135 ms
Remote clock offset: -7.258 ms

# Below is generated by plot.py at 2019-08-27 14:12:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 69.75 Mbit/s
  95th percentile per-packet one-way delay: 1228.031 ms
  Loss rate: 16.32%
-- Flow 1:
  Average throughput: 36.56 Mbit/s
  95th percentile per-packet one-way delay: 1301.654 ms
  Loss rate: 12.86%
-- Flow 2:
  Average throughput: 35.44 Mbit/s
  95th percentile per-packet one-way delay: 1022.225 ms
  Loss rate: 24.17%
-- Flow 3:
  Average throughput: 30.27 Mbit/s
  95th percentile per-packet one-way delay: 1386.432 ms
  Loss rate: 7.00%
Run 4: Report of Muses_DecisionTreeH0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeHO

Start at: 2019-08-27 13:40:11
End at: 2019-08-27 13:40:41
Local clock offset: 0.531 ms
Remote clock offset: -6.118 ms

# Below is generated by plot.py at 2019-08-27 14:12:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.85 Mbit/s
95th percentile per-packet one-way delay: 1159.795 ms
Loss rate: 14.17%
-- Flow 1:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 1197.294 ms
Loss rate: 10.26%
-- Flow 2:
Average throughput: 37.13 Mbit/s
95th percentile per-packet one-way delay: 994.009 ms
Loss rate: 12.63%
-- Flow 3:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 1454.306 ms
Loss rate: 31.51%
Run 5: Report of Muses

Decision Tree H0 — Data Link

![Graph 1](image1)

**Throughput (Mbps)**

**Time (s)**

Flow 1 ingress (mean 41.24 Mbps)  
Flow 1 egress (mean 37.22 Mbps)  
Flow 2 ingress (mean 42.12 Mbps)  
Flow 2 egress (mean 37.13 Mbps)  
Flow 3 ingress (mean 36.24 Mbps)  
Flow 3 egress (mean 25.28 Mbps)

![Graph 2](image2)

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

**Time (s)**

Flow 1 (95th percentile 1197.29 ms)  
Flow 2 (95th percentile 994.01 ms)  
Flow 3 (95th percentile 1454.31 ms)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 11:46:46
End at: 2019-08-27 11:47:16
Local clock offset: -0.42 ms
Remote clock offset: -8.055 ms

# Below is generated by plot.py at 2019-08-27 14:12:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 405.239 ms
Loss rate: 5.36%
-- Flow 1:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 412.825 ms
Loss rate: 7.51%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 154.303 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 199.342 ms
Loss rate: 2.86%
Run 1: Report of Muses

Decision Tree R0 — Data Link

Graph showing throughput and delay over time for different flows.
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 12:17:43
End at: 2019-08-27 12:18:13
Local clock offset: 0.484 ms
Remote clock offset: -4.772 ms

# Below is generated by plot.py at 2019-08-27 14:12:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 163.002 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 55.32 Mbit/s
95th percentile per-packet one-way delay: 158.662 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 156.730 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 29.69 Mbit/s
95th percentile per-packet one-way delay: 216.072 ms
Loss rate: 2.86%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

![Graph of throughput over time for different data flows with their respective ingress and egress speeds and delays.]

**Throughput (Mbps):**
- Flow 1 ingress (mean 55.43 Mbps)
- Flow 1 egress (mean 55.32 Mbps)
- Flow 2 ingress (mean 38.90 Mbps)
- Flow 2 egress (mean 38.81 Mbps)
- Flow 3 ingress (mean 30.00 Mbps)
- Flow 3 egress (mean 29.69 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 158.66 ms)
- Flow 2 (95th percentile 156.73 ms)
- Flow 3 (95th percentile 216.07 ms)
Run 3: Statistics of Muses\_DecisionTreeR0

End at: 2019-08-27 12:49:11  
Local clock offset: -0.273 ms  
Remote clock offset: -6.121 ms

# Below is generated by plot.py at 2019-08-27 14:12:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 167.240 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 55.97 Mbit/s  
95th percentile per-packet one-way delay: 153.580 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 38.83 Mbit/s  
95th percentile per-packet one-way delay: 168.704 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 29.79 Mbit/s  
95th percentile per-packet one-way delay: 228.631 ms  
Loss rate: 2.19%
Run 3: Report of Muses_DecimalTreeR0 — Data Link

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

- **Flow 1 ingress (mean 55.91 Mbit/s)**
- **Flow 1 egress (mean 55.97 Mbit/s)**
- **Flow 2 ingress (mean 38.95 Mbit/s)**
- **Flow 2 egress (mean 38.85 Mbit/s)**
- **Flow 3 ingress (mean 29.92 Mbit/s)**
- **Flow 3 egress (mean 29.79 Mbit/s)**

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

- **Flow 1 (95th percentile 153.58 ms)**
- **Flow 2 (95th percentile 168.70 ms)**
- **Flow 3 (95th percentile 228.63 ms)**
Run 4: Statistics of Muses\_DecisionTreeR0

End at: 2019-08-27 13:20:07
Local clock offset: 0.645 ms
Remote clock offset: -5.99 ms

# Below is generated by plot.py at 2019-08-27 14:12:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 159.452 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 157.840 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 151.189 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 179.747 ms
Loss rate: 2.62%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

![Graphs showing network performance metrics over time. The graphs depict throughput and per-packet one-way delay for different flows.]

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Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 13:50:40
End at: 2019-08-27 13:51:10
Local clock offset: 0.54 ms
Remote clock offset: -4.06 ms

# Below is generated by plot.py at 2019-08-27 14:12:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.08 Mbit/s
95th percentile per-packet one-way delay: 168.762 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 170.167 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 164.384 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 29.38 Mbit/s
95th percentile per-packet one-way delay: 204.077 ms
Loss rate: 2.14%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 11:38:58
End at: 2019-08-27 11:39:28
Local clock offset: -0.334 ms
Remote clock offset: -9.139 ms

# Below is generated by plot.py at 2019-08-27 14:13:04
# Datalink statistics
  -- Total of 3 flows:
    Average throughput: 87.14 Mbit/s
    95th percentile per-packet one-way delay: 1424.242 ms
    Loss rate: 22.78%
  -- Flow 1:
    Average throughput: 54.87 Mbit/s
    95th percentile per-packet one-way delay: 1479.838 ms
    Loss rate: 25.21%
  -- Flow 2:
    Average throughput: 34.17 Mbit/s
    95th percentile per-packet one-way delay: 1139.189 ms
    Loss rate: 16.51%
  -- Flow 3:
    Average throughput: 29.47 Mbit/s
    95th percentile per-packet one-way delay: 1346.297 ms
    Loss rate: 22.16%
Run 1: Report of PCC-Allegro — Data Link

[Graphs showing throughput and packet delay over time with legends indicating different flows and their mean throughputs and 95th percentiles for delay.]
Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 12:09:55
End at: 2019-08-27 12:10:25
Local clock offset: -0.328 ms
Remote clock offset: -3.63 ms

# Below is generated by plot.py at 2019-08-27 14:13:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 1432.652 ms
Loss rate: 22.44%
-- Flow 1:
Average throughput: 54.23 Mbit/s
95th percentile per-packet one-way delay: 1489.259 ms
Loss rate: 24.87%
-- Flow 2:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 1129.225 ms
Loss rate: 16.55%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 1367.887 ms
Loss rate: 21.22%
Run 2: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 71.77 Mbit/s)
- Flow 1 egress (mean 54.23 Mbit/s)
- Flow 2 ingress (mean 40.71 Mbit/s)
- Flow 2 egress (mean 34.27 Mbit/s)
- Flow 3 ingress (mean 36.85 Mbit/s)
- Flow 3 egress (mean 29.54 Mbit/s)

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

- Flow 1 95th percentile 1489.26 ms
- Flow 2 95th percentile 1129.22 ms
- Flow 3 95th percentile 1367.89 ms
Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 12:40:52
End at: 2019-08-27 12:41:22
Local clock offset: -0.223 ms
Remote clock offset: -6.037 ms

# Below is generated by plot.py at 2019-08-27 14:13:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 1446.762 ms
Loss rate: 22.34%
-- Flow 1:
Average throughput: 55.20 Mbit/s
95th percentile per-packet one-way delay: 1470.212 ms
Loss rate: 26.75%
-- Flow 2:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 1401.454 ms
Loss rate: 12.07%
-- Flow 3:
Average throughput: 29.30 Mbit/s
95th percentile per-packet one-way delay: 1009.158 ms
Loss rate: 16.21%
Run 3: Report of PCC-Allegro — Data Link

Graph 1: Throughput (Mbps)

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

Legend:
- Flow 1 ingress (mean 74.92 Mbit/s)
- Flow 1 egress (mean 55.20 Mbit/s)
- Flow 2 ingress (mean 38.14 Mbit/s)
- Flow 2 egress (mean 33.83 Mbit/s)
- Flow 3 ingress (mean 34.35 Mbit/s)
- Flow 3 egress (mean 29.30 Mbit/s)

Legend:
- Flow 1 (95th percentile 1470.21 ms)
- Flow 2 (95th percentile 1491.45 ms)
- Flow 3 (95th percentile 1009.16 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 13:11:49
End at: 2019-08-27 13:12:19
Local clock offset: 0.62 ms
Remote clock offset: -8.178 ms

# Below is generated by plot.py at 2019-08-27 14:13:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 1523.053 ms
Loss rate: 22.71%
-- Flow 1:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 1425.232 ms
Loss rate: 27.15%
-- Flow 2:
Average throughput: 33.36 Mbit/s
95th percentile per-packet one-way delay: 884.121 ms
Loss rate: 8.76%
-- Flow 3:
Average throughput: 29.40 Mbit/s
95th percentile per-packet one-way delay: 1688.527 ms
Loss rate: 22.38%
Run 4: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress (mean 76.60 Mbit/s)**
- **Flow 1 egress (mean 56.12 Mbit/s)**
- **Flow 2 ingress (mean 36.25 Mbit/s)**
- **Flow 2 egress (mean 33.36 Mbit/s)**
- **Flow 3 ingress (mean 37.24 Mbit/s)**
- **Flow 3 egress (mean 29.40 Mbit/s)**

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

- **Flow 1 (95th percentile 1425.23 ms)**
- **Flow 2 (95th percentile 888.12 ms)**
- **Flow 3 (95th percentile 1688.53 ms)**
Run 5: Statistics of PCC-Allegro

End at: 2019-08-27 13:43:16
Local clock offset: 0.536 ms
Remote clock offset: -6.306 ms

# Below is generated by plot.py at 2019-08-27 14:13:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 1513.936 ms
Loss rate: 21.49%
-- Flow 1:
Average throughput: 52.85 Mbit/s
95th percentile per-packet one-way delay: 1613.579 ms
Loss rate: 24.16%
-- Flow 2:
Average throughput: 35.07 Mbit/s
95th percentile per-packet one-way delay: 1136.661 ms
Loss rate: 14.72%
-- Flow 3:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 1460.265 ms
Loss rate: 21.41%
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 11:31:11
End at: 2019-08-27 11:31:42
Local clock offset: -0.351 ms
Remote clock offset: -8.396 ms

# Below is generated by plot.py at 2019-08-27 14:15:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.40 Mbit/s
  95th percentile per-packet one-way delay: 840.909 ms
  Loss rate: 23.71%
-- Flow 1:
  Average throughput: 56.25 Mbit/s
  95th percentile per-packet one-way delay: 842.589 ms
  Loss rate: 31.54%
-- Flow 2:
  Average throughput: 39.10 Mbit/s
  95th percentile per-packet one-way delay: 859.653 ms
  Loss rate: 6.91%
-- Flow 3:
  Average throughput: 25.12 Mbit/s
  95th percentile per-packet one-way delay: 267.833 ms
  Loss rate: 3.02%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 12:02:08
End at: 2019-08-27 12:02:38
Local clock offset: 0.453 ms
Remote clock offset: -6.378 ms

# Below is generated by plot.py at 2019-08-27 14:15:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.92 Mbit/s
95th percentile per-packet one-way delay: 861.995 ms
Loss rate: 19.67%
-- Flow 1:
Average throughput: 56.66 Mbit/s
95th percentile per-packet one-way delay: 854.295 ms
Loss rate: 26.09%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 933.471 ms
Loss rate: 7.11%
-- Flow 3:
Average throughput: 25.82 Mbit/s
95th percentile per-packet one-way delay: 259.263 ms
Loss rate: 3.34%
Run 2: Report of PCC-Expr — Data Link

[Graph showing throughput over time for different flows with labeled mean values for ingress and egress rates for each flow.]

[Graph showing per-packet one-way delay over time for different flows with labeled 95th percentile values for each flow.]
Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 12:33:05
End at: 2019-08-27 12:33:35
Local clock offset: 0.528 ms
Remote clock offset: -6.78 ms

# Below is generated by plot.py at 2019-08-27 14:15:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 874.958 ms
Loss rate: 20.01%
-- Flow 1:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 890.598 ms
Loss rate: 27.16%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 691.713 ms
Loss rate: 4.84%
-- Flow 3:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 257.885 ms
Loss rate: 3.30%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 13:04:02
End at: 2019-08-27 13:04:32
Local clock offset: 0.614 ms
Remote clock offset: -7.188 ms

# Below is generated by plot.py at 2019-08-27 14:15:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.87 Mbit/s
  95th percentile per-packet one-way delay: 876.167 ms
  Loss rate: 22.18%
-- Flow 1:
  Average throughput: 56.63 Mbit/s
  95th percentile per-packet one-way delay: 852.447 ms
  Loss rate: 29.25%
-- Flow 2:
  Average throughput: 38.93 Mbit/s
  95th percentile per-packet one-way delay: 917.314 ms
  Loss rate: 7.81%
-- Flow 3:
  Average throughput: 25.80 Mbit/s
  95th percentile per-packet one-way delay: 258.360 ms
  Loss rate: 3.32%
Run 4: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 79.59 Mbit/s)
- Flow 1 egress (mean 56.63 Mbit/s)
- Flow 2 ingress (mean 41.86 Mbit/s)
- Flow 2 egress (mean 38.93 Mbit/s)
- Flow 3 ingress (mean 26.21 Mbit/s)
- Flow 3 egress (mean 25.80 Mbit/s)

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

- Flow 1 (95th percentile 852.45 ms)
- Flow 2 (95th percentile 917.31 ms)
- Flow 3 (95th percentile 258.36 ms)
Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 13:34:59
End at: 2019-08-27 13:35:29
Local clock offset: 0.556 ms
Remote clock offset: -6.598 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 879.197 ms
Loss rate: 18.73%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 862.633 ms
Loss rate: 24.27%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 893.860 ms
Loss rate: 8.61%
-- Flow 3:
Average throughput: 27.09 Mbit/s
95th percentile per-packet one-way delay: 294.435 ms
Loss rate: 4.88%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 74.18 Mbit/s)
- Flow 1 egress (mean 56.50 Mbit/s)
- Flow 2 ingress (mean 41.91 Mbit/s)
- Flow 2 egress (mean 38.64 Mbit/s)
- Flow 3 ingress (mean 27.99 Mbit/s)
- Flow 3 egress (mean 27.09 Mbit/s)

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

- Flow 1 (95th percentile 862.63 ms)
- Flow 2 (95th percentile 893.86 ms)
- Flow 3 (95th percentile 294.44 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 11:26:07
End at: 2019-08-27 11:26:37
Local clock offset: -0.425 ms
Remote clock offset: -10.025 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 195.628 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 35.95 Mbit/s
95th percentile per-packet one-way delay: 130.156 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 198.010 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 333.424 ms
Loss rate: 1.67%
Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 11:57:03
End at: 2019-08-27 11:57:33
Local clock offset: -0.386 ms
Remote clock offset: -8.109 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.63 Mbit/s
95th percentile per-packet one-way delay: 177.032 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 136.445 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 188.171 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 358.861 ms
Loss rate: 8.18%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 12:28:00
End at: 2019-08-27 12:28:30
Local clock offset: 0.496 ms
Remote clock offset: -5.372 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 174.321 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 37.77 Mbit/s
95th percentile per-packet one-way delay: 143.730 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 20.49 Mbit/s
95th percentile per-packet one-way delay: 223.592 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 184.913 ms
Loss rate: 2.51%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 12:58:57
End at: 2019-08-27 12:59:27
Local clock offset: -0.177 ms
Remote clock offset: -7.178 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.05 Mbit/s
95th percentile per-packet one-way delay: 162.360 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 147.642 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 169.764 ms
 Loss rate: 1.16%
-- Flow 3:
Average throughput: 26.50 Mbit/s
95th percentile per-packet one-way delay: 187.436 ms
Loss rate: 2.47%
Run 4: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 28.85 Mbit/s)
- Flow 1 egress (mean 28.82 Mbit/s)
- Flow 2 ingress (mean 25.05 Mbit/s)
- Flow 2 egress (mean 24.97 Mbit/s)
- Flow 3 ingress (mean 26.69 Mbit/s)
- Flow 3 egress (mean 26.50 Mbit/s)

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

- Flow 1 (95th percentile 147.64 ms)
- Flow 2 (95th percentile 169.76 ms)
- Flow 3 (95th percentile 157.44 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 13:29:54
End at: 2019-08-27 13:30:24
Local clock offset: -0.233 ms
Remote clock offset: -6.587 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.93 Mbit/s
95th percentile per-packet one-way delay: 157.032 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 141.436 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 23.52 Mbit/s
95th percentile per-packet one-way delay: 186.993 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 189.729 ms
Loss rate: 2.54%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2019-08-27 11:53:10
End at: 2019-08-27 11:53:40
Local clock offset: -0.343 ms
Remote clock offset: -4.904 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 99.242 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.208 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 98.596 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.262 ms
Loss rate: 1.85%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2019-08-27 12:24:07
End at: 2019-08-27 12:24:37
Local clock offset: 0.435 ms
Remote clock offset: -6.998 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 101.651 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.658 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.024 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.298 ms
  Loss rate: 1.85%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

End at: 2019-08-27 12:55:34
Local clock offset: 0.592 ms
Remote clock offset: -11.716 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 105.385 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 105.056 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 104.753 ms
  Loss rate: 1.04%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 105.408 ms
  Loss rate: 1.85%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2019-08-27 13:26:01
End at: 2019-08-27 13:26:31
Local clock offset: 0.628 ms
Remote clock offset: -6.833 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 101.197 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.199 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.200 ms
  Loss rate: 1.04%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 100.541 ms
  Loss rate: 1.85%
Run 4: Report of SCReAM — Data Link

---

**Throughput**

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

**Per-packet one-way delay**

- Flow 1 (95th percentile 101.20 ms)
- Flow 2 (95th percentile 101.20 ms)
- Flow 3 (95th percentile 100.54 ms)
Run 5: Statistics of SCReAM

End at: 2019-08-27 13:57:50
Local clock offset: 0.516 ms
Remote clock offset: -7.263 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 101.366 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.012 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.383 ms
  Loss rate: 1.04%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 101.046 ms
  Loss rate: 1.85%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2019-08-27 11:49:22
End at: 2019-08-27 11:49:52
Local clock offset: -0.341 ms
Remote clock offset: -5.713 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 103.871 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 104.396 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 100.663 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 102.023 ms
Loss rate: 1.67%
Run 1: Report of Sprout — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 2.71 Mb/s)
Flow 1 egress (mean 2.71 Mb/s)
Flow 2 ingress (mean 0.78 Mb/s)
Flow 2 egress (mean 0.78 Mb/s)
Flow 3 ingress (mean 1.32 Mb/s)
Flow 3 egress (mean 1.32 Mb/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 104.40 ms)
Flow 2 (95th percentile 100.66 ms)
Flow 3 (95th percentile 102.02 ms)
Run 2: Statistics of Sprout

Start at: 2019-08-27 12:20:19
End at: 2019-08-27 12:20:49
Local clock offset: 0.477 ms
Remote clock offset: -6.077 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.35 Mbit/s
95th percentile per-packet one-way delay: 107.611 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 108.336 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 102.565 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.81 Mbit/s
95th percentile per-packet one-way delay: 103.057 ms
Loss rate: 1.05%
Run 2: Report of Sprout — Data Link

![Graph showing network performance metrics over time for different flows. The graphs depict throughput and packet delay over time for flows 1, 2, and 3, with annotations indicating mean values and 95th percentiles.]
Run 3: Statistics of Sprout

Start at: 2019-08-27 12:51:16
End at: 2019-08-27 12:51:46
Local clock offset: 0.581 ms
Remote clock offset: -10.341 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.08 Mbit/s
  95th percentile per-packet one-way delay: 108.215 ms
  Loss rate: 1.11%
-- Flow 1:
  Average throughput: 2.79 Mbit/s
  95th percentile per-packet one-way delay: 108.704 ms
  Loss rate: 0.96%
-- Flow 2:
  Average throughput: 1.48 Mbit/s
  95th percentile per-packet one-way delay: 106.475 ms
  Loss rate: 1.05%
-- Flow 3:
  Average throughput: 0.96 Mbit/s
  95th percentile per-packet one-way delay: 106.714 ms
  Loss rate: 2.64%
Run 3: Report of Sprout — Data Link

---

<Figure with graphs showing throughput and packet delay over time>
Run 4: Statistics of Sprout

Local clock offset: -0.21 ms
Remote clock offset: -6.409 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 106.839 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 101.598 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 106.454 ms
Loss rate: 3.80%
-- Flow 3:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 109.059 ms
Loss rate: 3.68%
Run 4: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 1.43 Mbit/s)
- Flow 1 egress (mean 1.42 Mbit/s)
- Flow 2 ingress (mean 1.23 Mbit/s)
- Flow 2 egress (mean 1.19 Mbit/s)
- Flow 3 ingress (mean 2.62 Mbit/s)
- Flow 3 egress (mean 2.56 Mbit/s)
Run 5: Statistics of Sprout

End at: 2019-08-27 13:53:57
Local clock offset: 0.465 ms
Remote clock offset: -6.167 ms

# Below is generated by plot.py at 2019-08-27 14:15:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.74 Mbit/s
  95th percentile per-packet one-way delay: 102.849 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 1.59 Mbit/s
  95th percentile per-packet one-way delay: 103.068 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 1.20 Mbit/s
  95th percentile per-packet one-way delay: 102.422 ms
  Loss rate: 0.33%
-- Flow 3:
  Average throughput: 1.08 Mbit/s
  95th percentile per-packet one-way delay: 102.639 ms
  Loss rate: 1.92%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 11:54:23
End at: 2019-08-27 11:54:53
Local clock offset: 0.461 ms
Remote clock offset: -5.924 ms

# Below is generated by plot.py at 2019-08-27 14:16:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.95 Mbit/s
95th percentile per-packet one-way delay: 169.282 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 165.581 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 174.716 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 162.656 ms
Loss rate: 1.93%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 12:25:20
End at: 2019-08-27 12:25:50
Local clock offset: -0.306 ms
Remote clock offset: -5.312 ms

# Below is generated by plot.py at 2019-08-27 14:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.62 Mbit/s
95th percentile per-packet one-way delay: 165.189 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 49.63 Mbit/s
95th percentile per-packet one-way delay: 160.240 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 38.01 Mbit/s
95th percentile per-packet one-way delay: 170.541 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 165.164 ms
Loss rate: 2.59%
Run 2: Report of TaoVA-100x — Data Link

![Graph of network throughput and packet round trip time over time for different flows.](image)

Legend:
- Flow 1 ingress (mean 49.62 Mbit/s)
- Flow 1 egress (mean 49.63 Mbit/s)
- Flow 2 ingress (mean 38.04 Mbit/s)
- Flow 2 egress (mean 38.01 Mbit/s)
- Flow 3 ingress (mean 29.89 Mbit/s)
- Flow 3 egress (mean 29.62 Mbit/s)
Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 12:56:17
End at: 2019-08-27 12:56:47
Local clock offset: -0.247 ms
Remote clock offset: -7.103 ms

# Below is generated by plot.py at 2019-08-27 14:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 169.209 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 168.589 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 36.90 Mbit/s
95th percentile per-packet one-way delay: 171.910 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 162.848 ms
Loss rate: 2.18%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Local clock offset: -0.174 ms
Remote clock offset: -7.069 ms

# Below is generated by plot.py at 2019-08-27 14:17:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 83.02 Mbit/s
  95th percentile per-packet one-way delay: 168.601 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 49.25 Mbit/s
  95th percentile per-packet one-way delay: 167.107 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 37.63 Mbit/s
  95th percentile per-packet one-way delay: 173.010 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 26.77 Mbit/s
  95th percentile per-packet one-way delay: 164.316 ms
  Loss rate: 2.91%
Run 4: Report of TaoVA-100x — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 13:58:33
End at: 2019-08-27 13:59:03
Local clock offset: -0.276 ms
Remote clock offset: -6.674 ms

# Below is generated by plot.py at 2019-08-27 14:17:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 83.35 Mbit/s
  95th percentile per-packet one-way delay: 166.516 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 48.86 Mbit/s
  95th percentile per-packet one-way delay: 165.811 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 37.13 Mbit/s
  95th percentile per-packet one-way delay: 172.262 ms
  Loss rate: 0.79%
-- Flow 3:
  Average throughput: 29.86 Mbit/s
  95th percentile per-packet one-way delay: 157.386 ms
  Loss rate: 1.88%
Run 5: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 48.78 Mbps)
Flow 1 egress (mean 48.86 Mbps)
Flow 2 ingress (mean 37.10 Mbps)
Flow 2 egress (mean 37.13 Mbps)
Flow 3 ingress (mean 29.90 Mbps)
Flow 3 egress (mean 29.86 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 165.81 ms)
Flow 2 (95th percentile 172.26 ms)
Flow 3 (95th percentile 157.39 ms)
Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 11:50:35
End at: 2019-08-27 11:51:05
Local clock offset: -0.341 ms
Remote clock offset: -5.734 ms

# Below is generated by plot.py at 2019-08-27 14:17:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.06 Mbit/s
95th percentile per.packet one-way delay: 204.608 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 37.02 Mbit/s
95th percentile per.packet one-way delay: 179.562 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 19.88 Mbit/s
95th percentile per.packet one-way delay: 196.783 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 26.93 Mbit/s
95th percentile per.packet one-way delay: 257.393 ms
Loss rate: 1.92%
Run 1: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 37.06 Mbit/s)
- Flow 1 egress (mean 37.02 Mbit/s)
- Flow 2 ingress (mean 19.83 Mbit/s)
- Flow 2 egress (mean 19.85 Mbit/s)
- Flow 3 ingress (mean 26.99 Mbit/s)
- Flow 3 egress (mean 26.93 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 179.56 ms)
- Flow 2 (95th percentile 196.78 ms)
- Flow 3 (95th percentile 257.39 ms)
Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 12:21:32
End at: 2019-08-27 12:22:02
Local clock offset: 0.466 ms
Remote clock offset: -5.726 ms

# Below is generated by plot.py at 2019-08-27 14:17:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 204.115 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 31.79 Mbit/s
95th percentile per-packet one-way delay: 204.556 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 21.17 Mbit/s
95th percentile per-packet one-way delay: 192.939 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 212.926 ms
Loss rate: 1.94%
Run 2: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 31.73 Mbit/s)
- Flow 1 egress (mean 31.79 Mbit/s)
- Flow 2 ingress (mean 21.10 Mbit/s)
- Flow 2 egress (mean 21.17 Mbit/s)
- Flow 3 ingress (mean 34.16 Mbit/s)
- Flow 3 egress (mean 34.09 Mbit/s)

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

- Flow 1 (95th percentile 204.56 ms)
- Flow 2 (95th percentile 192.94 ms)
- Flow 3 (95th percentile 212.93 ms)
Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 12:52:29
End at: 2019-08-27 12:52:59
Local clock offset: -0.187 ms
Remote clock offset: -7.614 ms

# Below is generated by plot.py at 2019-08-27 14:17:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 57.53 Mbit/s
  95th percentile per-packet one-way delay: 185.265 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 36.05 Mbit/s
  95th percentile per-packet one-way delay: 187.547 ms
  Loss rate: 0.61%
-- Flow 2:
  Average throughput: 21.67 Mbit/s
  95th percentile per-packet one-way delay: 187.650 ms
  Loss rate: 0.99%
-- Flow 3:
  Average throughput: 21.59 Mbit/s
  95th percentile per-packet one-way delay: 174.162 ms
  Loss rate: 2.21%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Local clock offset: -0.134 ms
Remote clock offset: -5.955 ms

# Below is generated by plot.py at 2019-08-27 14:17:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 62.06 Mbit/s
  95th percentile per-packet one-way delay: 174.007 ms
  Loss rate: 0.83%
-- Flow 1:
  Average throughput: 31.78 Mbit/s
  95th percentile per-packet one-way delay: 207.374 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 29.34 Mbit/s
  95th percentile per-packet one-way delay: 169.507 ms
  Loss rate: 0.81%
-- Flow 3:
  Average throughput: 32.90 Mbit/s
  95th percentile per-packet one-way delay: 117.653 ms
  Loss rate: 2.02%
Run 4: Report of TCP Vegas — Data Link

![Graph showing throughput and per-packet one-way delay]
Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 13:54:40
End at: 2019-08-27 13:55:10
Local clock offset: -0.298 ms
Remote clock offset: -5.186 ms

# Below is generated by plot.py at 2019-08-27 14:17:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.21 Mbit/s
95th percentile per-packet one-way delay: 191.940 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 208.424 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 21.83 Mbit/s
95th percentile per-packet one-way delay: 187.542 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 20.89 Mbit/s
95th percentile per-packet one-way delay: 160.935 ms
Loss rate: 1.93%
Run 5: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress (mean 31.80 Mbps)**
- **Flow 1 egress (mean 31.85 Mbps)**
- **Flow 2 ingress (mean 21.86 Mbps)**
- **Flow 2 egress (mean 21.83 Mbps)**
- **Flow 3 ingress (mean 20.93 Mbps)**
- **Flow 3 egress (mean 20.89 Mbps)**

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

- **Flow 1 (95th percentile 208.42 ms)**
- **Flow 2 (95th percentile 187.54 ms)**
- **Flow 3 (95th percentile 160.94 ms)**
Run 1: Statistics of Verus

Start at: 2019-08-27 11:29:54
End at: 2019-08-27 11:30:24
Local clock offset: 0.412 ms
Remote clock offset: -8.475 ms

# Below is generated by plot.py at 2019-08-27 14:17:30
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 70.14 Mbit/s
 95th percentile per-packet one-way delay: 364.328 ms
 Loss rate: 1.39%
-- Flow 1:
 Average throughput: 45.37 Mbit/s
 95th percentile per-packet one-way delay: 376.376 ms
 Loss rate: 0.60%
-- Flow 2:
 Average throughput: 23.89 Mbit/s
 95th percentile per-packet one-way delay: 341.131 ms
 Loss rate: 2.50%
-- Flow 3:
 Average throughput: 27.24 Mbit/s
 95th percentile per-packet one-way delay: 267.315 ms
 Loss rate: 3.36%
Run 1: Report of Verus — Data Link

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

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Run 2: Statistics of Verus

Start at: 2019-08-27 12:00:50
End at: 2019-08-27 12:01:20
Local clock offset: -0.394 ms
Remote clock offset: -3.933 ms

# Below is generated by plot.py at 2019-08-27 14:17:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 277.079 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 42.31 Mbit/s
95th percentile per-packet one-way delay: 271.279 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 32.45 Mbit/s
95th percentile per-packet one-way delay: 250.359 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 20.65 Mbit/s
95th percentile per-packet one-way delay: 587.039 ms
Loss rate: 1.70%
Run 2: Report of Verus — Data Link

The diagrams above show the throughput and per-packet one-way delay for three different flows:

1. Flow 1: Ingress (mean 42.60 Mbps) and Egress (mean 42.31 Mbps)
2. Flow 2: Ingress (mean 32.41 Mbps) and Egress (mean 32.45 Mbps)
3. Flow 3: Ingress (mean 20.93 Mbps) and Egress (mean 20.65 Mbps)

The throughput plot indicates fluctuations in data rates over time, with peaks and valleys that suggest varying network conditions. The per-packet one-way delay plot shows the time it takes for packets to travel from one point to another, with significant variability across the flows, as indicated by the 95th percentile values.
Run 3: Statistics of Verus

Start at: 2019-08-27 12:31:47
End at: 2019-08-27 12:32:17
Local clock offset: 0.518 ms
Remote clock offset: -7.893 ms

# Below is generated by plot.py at 2019-08-27 14:17:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.69 Mbit/s
95th percentile per-packet one-way delay: 683.894 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 739.880 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 30.33 Mbit/s
95th percentile per-packet one-way delay: 647.924 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 420.624 ms
Loss rate: 2.81%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2019-08-27 13:02:44
End at: 2019-08-27 13:03:14
Local clock offset: 0.546 ms
Remote clock offset: -7.515 ms

# Below is generated by plot.py at 2019-08-27 14:17:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 70.54 Mbit/s
  95th percentile per-packet one-way delay: 279.986 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 39.81 Mbit/s
  95th percentile per-packet one-way delay: 264.762 ms
  Loss rate: 0.86%
-- Flow 2:
  Average throughput: 35.06 Mbit/s
  95th percentile per-packet one-way delay: 374.029 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 22.92 Mbit/s
  95th percentile per-packet one-way delay: 269.622 ms
  Loss rate: 2.05%
Run 4: Report of Verus — Data Link

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

- Flow 1 ingress (mean 39.86 Mbps)
- Flow 1 egress (mean 39.81 Mbps)
- Flow 2 ingress (mean 35.44 Mbps)
- Flow 2 egress (mean 35.06 Mbps)
- Flow 3 ingress (mean 23.14 Mbps)
- Flow 3 egress (mean 22.92 Mbps)

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

- Flow 1 (95th percentile 264.76 ms)
- Flow 2 (95th percentile 374.03 ms)
- Flow 3 (95th percentile 269.62 ms)
Run 5: Statistics of Verus

End at: 2019-08-27 13:34:11
Local clock offset: 0.568 ms
Remote clock offset: -5.424 ms

# Below is generated by plot.py at 2019-08-27 14:17:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.66 Mbit/s
95th percentile per-packet one-way delay: 317.071 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 302.556 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 273.677 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 479.415 ms
Loss rate: 1.52%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 11:51:52
End at: 2019-08-27 11:52:22
Local clock offset: -0.391 ms
Remote clock offset: -4.536 ms

# Below is generated by plot.py at 2019-08-27 14:18:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.38 Mbit/s
  95th percentile per-packet one-way delay: 2000.817 ms
  Loss rate: 4.89%
-- Flow 1:
  Average throughput: 49.02 Mbit/s
  95th percentile per-packet one-way delay: 2086.982 ms
  Loss rate: 5.43%
-- Flow 2:
  Average throughput: 31.76 Mbit/s
  95th percentile per-packet one-way delay: 801.058 ms
  Loss rate: 4.27%
-- Flow 3:
  Average throughput: 22.30 Mbit/s
  95th percentile per-packet one-way delay: 351.849 ms
  Loss rate: 2.93%
Run 1: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 51.54 Mbit/s)
- Flow 1 egress (mean 49.02 Mbit/s)
- Flow 2 ingress (mean 32.89 Mbit/s)
- Flow 2 egress (mean 31.76 Mbit/s)
- Flow 3 ingress (mean 22.57 Mbit/s)
- Flow 3 egress (mean 22.30 Mbit/s)

![Graph 2: End-to-end Delay vs. Time](image2)

- Flow 1 (95th percentile 2086.98 ms)
- Flow 2 (95th percentile 801.06 ms)
- Flow 3 (95th percentile 351.85 ms)
Run 2: Statistics of PCC-Vivace

End at: 2019-08-27 12:23:18
Local clock offset: -0.278 ms
Remote clock offset: -9.202 ms

# Below is generated by plot.py at 2019-08-27 14:18:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.74 Mbit/s
95th percentile per-packet one-way delay: 1994.622 ms
Loss rate: 4.81%
-- Flow 1:
Average throughput: 51.03 Mbit/s
95th percentile per-packet one-way delay: 2084.957 ms
Loss rate: 5.12%
-- Flow 2:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 899.888 ms
Loss rate: 4.64%
-- Flow 3:
Average throughput: 22.27 Mbit/s
95th percentile per-packet one-way delay: 356.956 ms
Loss rate: 3.07%
Run 2: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress** (mean 53.48 Mbps)
- **Flow 1 egress** (mean 51.93 Mbps)
- **Flow 2 ingress** (mean 33.60 Mbps)
- **Flow 2 egress** (mean 32.32 Mbps)
- **Flow 3 ingress** (mean 22.58 Mbps)
- **Flow 3 egress** (mean 22.27 Mbps)

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

- **Flow 1** (95th percentile 2084.96 ms)
- **Flow 2** (95th percentile 899.89 ms)
- **Flow 3** (95th percentile 356.96 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 12:53:46
End at: 2019-08-27 12:54:16
Local clock offset: 0.57 ms
Remote clock offset: -7.05 ms

# Below is generated by plot.py at 2019-08-27 14:18:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 78.76 Mbit/s
  95th percentile per-packet one-way delay: 1556.567 ms
  Loss rate: 4.35%
-- Flow 1:
  Average throughput: 50.33 Mbit/s
  95th percentile per-packet one-way delay: 1575.410 ms
  Loss rate: 4.70%
-- Flow 2:
  Average throughput: 31.95 Mbit/s
  95th percentile per-packet one-way delay: 847.953 ms
  Loss rate: 3.74%
-- Flow 3:
  Average throughput: 22.18 Mbit/s
  95th percentile per-packet one-way delay: 367.607 ms
  Loss rate: 3.65%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Local clock offset: -0.15 ms
Remote clock offset: -7.427 ms

# Below is generated by plot.py at 2019-08-27 14:18:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 79.00 Mbit/s
  95th percentile per-packet one-way delay: 2000.241 ms
  Loss rate: 8.08%
-- Flow 1:
  Average throughput: 50.52 Mbit/s
  95th percentile per-packet one-way delay: 2083.644 ms
  Loss rate: 9.70%
-- Flow 2:
  Average throughput: 31.98 Mbit/s
  95th percentile per-packet one-way delay: 545.528 ms
  Loss rate: 5.70%
-- Flow 3:
  Average throughput: 22.25 Mbit/s
  95th percentile per-packet one-way delay: 357.730 ms
  Loss rate: 3.13%
Run 4: Report of PCC-Vivace — Data Link

![Graph showing throughput and latency for different flows over time.](Graph.png)
Run 5: Statistics of PCC-Vivace

End at: 2019-08-27 13:56:28
Local clock offset: -0.314 ms
Remote clock offset: -7.177 ms

# Below is generated by plot.py at 2019-08-27 14:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.56 Mbit/s
95th percentile per-packet one-way delay: 1923.220 ms
Loss rate: 6.00%
-- Flow 1:
Average throughput: 51.27 Mbit/s
95th percentile per-packet one-way delay: 2030.038 ms
Loss rate: 6.01%
-- Flow 2:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 1024.155 ms
Loss rate: 6.97%
-- Flow 3:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 355.094 ms
Loss rate: 3.11%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

End at: 2019-08-27 11:27:53
Local clock offset: -0.435 ms
Remote clock offset: -12.835 ms

# Below is generated by plot.py at 2019-08-27 14:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.93 Mbit/s
  95th percentile per-packet one-way delay: 104.080 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 1.66 Mbit/s
  95th percentile per-packet one-way delay: 104.098 ms
  Loss rate: 0.23%
-- Flow 2:
  Average throughput: 0.93 Mbit/s
  95th percentile per-packet one-way delay: 104.096 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.37 Mbit/s
  95th percentile per-packet one-way delay: 103.683 ms
  Loss rate: 1.75%
Run 1: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.65 Mbit/s)  Flow 1 egress (mean 1.66 Mbit/s)
Flow 2 ingress (mean 0.93 Mbit/s)  Flow 2 egress (mean 0.93 Mbit/s)
Flow 3 ingress (mean 0.37 Mbit/s)  Flow 3 egress (mean 0.37 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 104.10 ms)  Flow 2 (95th percentile 104.10 ms)  Flow 3 (95th percentile 103.68 ms)
Run 2: Statistics of WebRTC media

Start at: 2019-08-27 11:58:19
End at: 2019-08-27 11:58:49
Local clock offset: 0.467 ms
Remote clock offset: -4.565 ms

# Below is generated by plot.py at 2019-08-27 14:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.95 Mbit/s
  95th percentile per-packet one-way delay: 100.566 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 1.66 Mbit/s
  95th percentile per-packet one-way delay: 100.619 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 0.93 Mbit/s
  95th percentile per-packet one-way delay: 100.063 ms
  Loss rate: 0.38%
-- Flow 3:
  Average throughput: 0.38 Mbit/s
  95th percentile per-packet one-way delay: 100.621 ms
  Loss rate: 0.95%
Run 2: Report of WebRTC media — Data Link

![Graph 1: Throughput vs Time]

Flow 1 ingress (mean 1.66 Mbit/s), Flow 1 egress (mean 1.66 Mbit/s), Flow 2 ingress (mean 0.93 Mbit/s), Flow 2 egress (mean 0.93 Mbit/s), Flow 3 ingress (mean 0.38 Mbit/s), Flow 3 egress (mean 0.38 Mbit/s)

![Graph 2: Packet loss rate vs Time]

Flow 1 (95th percentile 100.06 ms), Flow 2 (95th percentile 100.06 ms), Flow 3 (95th percentile 100.06 ms)
Run 3: Statistics of WebRTC media

Start at: 2019-08-27 12:29:17
End at: 2019-08-27 12:29:47
Local clock offset: -0.359 ms
Remote clock offset: -8.02 ms

# Below is generated by plot.py at 2019-08-27 14:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.99 Mbit/s
95th percentile per-packet one-way delay: 102.228 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 102.291 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 102.060 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 102.176 ms
Loss rate: 1.86%
Run 3: Report of WebRTC media — Data Link

![Graph showing throughput and packet one-way delay contrasts]
Run 4: Statistics of WebRTC media

Start at: 2019-08-27 13:00:13
End at: 2019-08-27 13:00:43
Local clock offset: -0.158 ms
Remote clock offset: -6.029 ms

# Below is generated by plot.py at 2019-08-27 14:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.96 Mbit/s
  95th percentile per-packet one-way delay: 99.287 ms
  Loss rate: 0.72%
-- Flow 1:
  Average throughput: 1.68 Mbit/s
  95th percentile per-packet one-way delay: 99.299 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 0.92 Mbit/s
  95th percentile per-packet one-way delay: 99.324 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.37 Mbit/s
  95th percentile per-packet one-way delay: 98.923 ms
  Loss rate: 1.85%
Run 4: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 1.67 Mbit/s)
Flow 1 egress (mean 1.68 Mbit/s)
Flow 2 ingress (mean 0.92 Mbit/s)
Flow 2 egress (mean 0.92 Mbit/s)
Flow 3 ingress (mean 0.38 Mbit/s)
Flow 3 egress (mean 0.37 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 99.30 ms)
Flow 2 (95th percentile 99.32 ms)
Flow 3 (95th percentile 98.92 ms)
Run 5: Statistics of WebRTC media

Local clock offset: 0.575 ms
Remote clock offset: -7.622 ms

# Below is generated by plot.py at 2019-08-27 14:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.99 Mbit/s
  95th percentile per-packet one-way delay: 102.621 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 1.70 Mbit/s
  95th percentile per-packet one-way delay: 102.415 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 0.93 Mbit/s
  95th percentile per-packet one-way delay: 102.557 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.38 Mbit/s
  95th percentile per-packet one-way delay: 102.990 ms
  Loss rate: 1.41%
Run 5: Report of WebRTC media — Data Link