Pantheon Report

Generated at 2020-02-19 10:18:32 (UTC).
Data path: GCE Sydney on ens4 (local) → GCE Tokyo on ens4 (remote).
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 time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 5.0.0-1026-gcp
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 @ de42328552b377a75a932a94dfafdd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbfe58e562f4
third_party/indigo @ 2601c92e4aa9d5838dc4df0ecdbf90cc077e64d
third_party/libutp @ b3465b942e2826f2b179eaaab4a906ce6bb7cf3cf
third_party/muses @ 5c7271187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddfbb92d708a8869fbb84eb3200
third_party/pantheon-tunnel @ f8663f58d27af9d42717625ee3a354cc2e802bd
third_party/pcc @ 1ac9958fa0d66d18b623c091a55fe872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8adc08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a18273a86b42f1b8143ebc978f3c4f42
third_party/scream-reproduce @ 099118d1421aa3131bf11ff1964974e1da3db2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e32d4a6ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af262956293f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Sydney to GCE Tokyo, 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>
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<tbody>
<tr>
<td></td>
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<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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Run 1: Statistics of TCP BBR

Start at: 2020-02-19 03:46:15  
End at: 2020-02-19 03:46:45  
Local clock offset: 0.367 ms  
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2020-02-19 07:21:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 834.71 Mbit/s  
95th percentile per-packet one-way delay: 235.793 ms  
Loss rate: 3.67%  
-- Flow 1:  
Average throughput: 417.14 Mbit/s  
95th percentile per-packet one-way delay: 231.506 ms  
Loss rate: 3.30%  
-- Flow 2:  
Average throughput: 448.53 Mbit/s  
95th percentile per-packet one-way delay: 213.700 ms  
Loss rate: 3.19%  
-- Flow 3:  
Average throughput: 357.67 Mbit/s  
95th percentile per-packet one-way delay: 305.890 ms  
Loss rate: 6.13%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2020-02-19 04:25:20
End at: 2020-02-19 04:25:50
Local clock offset: -0.45 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 753.71 Mbit/s
95th percentile per-packet one-way delay: 226.825 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 415.94 Mbit/s
95th percentile per-packet one-way delay: 236.050 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 326.90 Mbit/s
95th percentile per-packet one-way delay: 170.434 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 361.48 Mbit/s
95th percentile per-packet one-way delay: 230.443 ms
Loss rate: 3.79%
Run 2: Report of TCP BBR — Data Link

![Graph of Throughput and Delay](image)

- Flow 1 ingress (mean 426.03 Mbit/s)
- Flow 1 egress (mean 415.94 Mbit/s)
- Flow 2 ingress (mean 330.69 Mbit/s)
- Flow 2 egress (mean 326.90 Mbit/s)
- Flow 3 ingress (mean 374.76 Mbit/s)
- Flow 3 egress (mean 361.48 Mbit/s)
Run 3: Statistics of TCP BBR

Start at: 2020-02-19 05:04:15
End at: 2020-02-19 05:04:45
Local clock offset: -0.466 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics
# Total of 3 flows:
Average throughput: 795.97 Mbit/s
95th percentile per-packet one-way delay: 222.894 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 407.61 Mbit/s
95th percentile per-packet one-way delay: 164.112 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 386.11 Mbit/s
95th percentile per-packet one-way delay: 232.302 ms
Loss rate: 4.01%
-- Flow 3:
Average throughput: 395.45 Mbit/s
95th percentile per-packet one-way delay: 243.472 ms
Loss rate: 5.63%
Run 3: Report of TCP BBR — Data Link

![Graph 1](image1.png)

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

Start at: 2020-02-19 05:42:55
End at: 2020-02-19 05:43:25
Local clock offset: 0.259 ms
Remote clock offset: -0.676 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 717.92 Mbit/s
95th percentile per-packet one-way delay: 217.950 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 402.39 Mbit/s
95th percentile per-packet one-way delay: 213.506 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 311.62 Mbit/s
95th percentile per-packet one-way delay: 204.618 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 326.80 Mbit/s
95th percentile per-packet one-way delay: 241.954 ms
Loss rate: 4.44%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2020-02-19 06:21:48
End at: 2020-02-19 06:22:18
Local clock offset: -0.424 ms
Remote clock offset: -0.31 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 797.28 Mbit/s
95th percentile per-packet one-way delay: 217.934 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 480.51 Mbit/s
95th percentile per-packet one-way delay: 204.374 ms
Loss rate: 3.67%
-- Flow 2:
Average throughput: 289.81 Mbit/s
95th percentile per-packet one-way delay: 200.260 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 372.59 Mbit/s
95th percentile per-packet one-way delay: 260.937 ms
Loss rate: 5.61%
Run 5: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2020-02-19 03:52:43
End at: 2020-02-19 03:53:13
Local clock offset: -0.202 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.35 Mbit/s
95th percentile per-packet one-way delay: 102.149 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 204.12 Mbit/s
95th percentile per-packet one-way delay: 104.792 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 238.01 Mbit/s
95th percentile per-packet one-way delay: 96.873 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 160.89 Mbit/s
95th percentile per-packet one-way delay: 109.786 ms
Loss rate: 0.11%
Run 1: Report of Copa — Data Link

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

- **Throughput**:
  - Flow 1 ingress (mean 204.12 Mbit/s)
  - Flow 1 egress (mean 204.12 Mbit/s)
  - Flow 2 ingress (mean 237.99 Mbit/s)
  - Flow 2 egress (mean 238.01 Mbit/s)
  - Flow 3 ingress (mean 161.03 Mbit/s)
  - Flow 3 egress (mean 160.89 Mbit/s)

- **Per-packet one-way delay**:
  - Flow 1 (95th percentile 104.79 ms)
  - Flow 2 (95th percentile 96.87 ms)
  - Flow 3 (95th percentile 109.79 ms)
Run 2: Statistics of Copa

Start at: 2020-02-19 04:31:46
End at: 2020-02-19 04:32:16
Local clock offset: -0.137 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics

-- Total of 3 flows:
Average throughput: 433.83 Mbit/s
95th percentile per-packet one-way delay: 90.437 ms
Loss rate: 0.01%

-- Flow 1:
Average throughput: 246.63 Mbit/s
95th percentile per-packet one-way delay: 91.140 ms
Loss rate: 0.01%

-- Flow 2:
Average throughput: 183.76 Mbit/s
95th percentile per-packet one-way delay: 88.602 ms
Loss rate: 0.01%

-- Flow 3:
Average throughput: 195.62 Mbit/s
95th percentile per-packet one-way delay: 89.837 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, with legends indicating mean throughputs for each flow.]
Run 3: Statistics of Copa

Start at: 2020-02-19 05:10:36
End at: 2020-02-19 05:11:06
Local clock offset: -0.442 ms
Remote clock offset: -1.323 ms

# Below is generated by plot.py at 2020-02-19 07:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.65 Mbit/s
95th percentile per-packet one-way delay: 78.246 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 208.94 Mbit/s
95th percentile per-packet one-way delay: 82.211 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 215.88 Mbit/s
95th percentile per-packet one-way delay: 73.454 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 198.37 Mbit/s
95th percentile per-packet one-way delay: 76.535 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 208.94 Mbps)
- Flow 1 egress (mean 208.94 Mbps)
- Flow 2 ingress (mean 215.99 Mbps)
- Flow 2 egress (mean 215.88 Mbps)
- Flow 3 ingress (mean 198.38 Mbps)
- Flow 3 egress (mean 198.37 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 82.21 ms)
- Flow 2 (95th percentile 73.45 ms)
- Flow 3 (95th percentile 76.53 ms)
Run 4: Statistics of Copa

Start at: 2020-02-19 05:49:17
End at: 2020-02-19 05:49:47
Local clock offset: 0.251 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-02-19 07:37:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 394.07 Mbit/s
95th percentile per-packet one-way delay: 95.231 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 206.83 Mbit/s
95th percentile per-packet one-way delay: 98.088 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 191.84 Mbit/s
95th percentile per-packet one-way delay: 83.342 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 179.29 Mbit/s
95th percentile per-packet one-way delay: 100.356 ms
Loss rate: 0.03%
Run 4: Report of Copa — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress: mean 206.84 Mbps
  - Flow 1 egress: mean 206.63 Mbps
  - Flow 2 ingress: mean 191.88 Mbps
  - Flow 2 egress: mean 191.84 Mbps
  - Flow 3 ingress: mean 179.31 Mbps
  - Flow 3 egress: mean 179.29 Mbps

- **Delay (ms):**
  - Flow 1: 95th percentile 98.09 ms
  - Flow 2: 95th percentile 83.34 ms
  - Flow 3: 95th percentile 100.36 ms
Run 5: Statistics of Copa

Start at: 2020-02-19 06:28:03
End at: 2020-02-19 06:28:33
Local clock offset: -0.406 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2020-02-19 07:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.19 Mbit/s
95th percentile per-packet one-way delay: 82.616 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 218.28 Mbit/s
95th percentile per-packet one-way delay: 78.014 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 156.61 Mbit/s
95th percentile per-packet one-way delay: 94.370 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 167.81 Mbit/s
95th percentile per-packet one-way delay: 70.743 ms
Loss rate: 0.02%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2020-02-19 04:04:02
End at: 2020-02-19 04:04:32
Local clock offset: -0.004 ms
Remote clock offset: -0.467 ms

# Below is generated by plot.py at 2020-02-19 07:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 671.45 Mbit/s
95th percentile per-packet one-way delay: 218.601 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 412.13 Mbit/s
95th percentile per-packet one-way delay: 165.727 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 299.48 Mbit/s
95th percentile per-packet one-way delay: 232.263 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 180.19 Mbit/s
95th percentile per-packet one-way delay: 223.061 ms
Loss rate: 3.06%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2020-02-19 04:43:07
End at: 2020-02-19 04:43:37
Local clock offset: -0.17 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-02-19 07:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.18 Mbit/s
95th percentile per-packet one-way delay: 209.027 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 342.75 Mbit/s
95th percentile per-packet one-way delay: 199.973 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 295.07 Mbit/s
95th percentile per-packet one-way delay: 226.381 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 174.04 Mbit/s
95th percentile per-packet one-way delay: 193.097 ms
Loss rate: 2.77%
Run 2: Report of TCP Cubic — Data Link

![Graph of throughput and packet delay](image_url)
Run 3: Statistics of TCP Cubic

Start at: 2020-02-19 05:21:54
End at: 2020-02-19 05:22:24
Local clock offset: 0.26 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2020-02-19 07:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 608.19 Mbit/s
95th percentile per-packet one-way delay: 204.337 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 330.43 Mbit/s
95th percentile per-packet one-way delay: 205.043 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 299.37 Mbit/s
95th percentile per-packet one-way delay: 205.803 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 235.63 Mbit/s
95th percentile per-packet one-way delay: 81.238 ms
Loss rate: 0.29%
Run 3: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 331.00 Mbit/s)
- Flow 1 egress (mean 330.43 Mbit/s)
- Flow 2 ingress (mean 301.51 Mbit/s)
- Flow 2 egress (mean 299.37 Mbit/s)
- Flow 3 ingress (mean 236.35 Mbit/s)
- Flow 3 egress (mean 235.63 Mbit/s)

![Graph of packet size and packet loss over time for different flows.]

- Flow 1 (95th percentile 205.04 ms)
- Flow 2 (95th percentile 205.88 ms)
- Flow 3 (95th percentile 81.24 ms)
Run 4: Statistics of TCP Cubic

Start at: 2020-02-19 06:00:33
End at: 2020-02-19 06:01:03
Local clock offset: 0.224 ms
Remote clock offset: -1.316 ms

# Below is generated by plot.py at 2020-02-19 07:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 633.54 Mbit/s
95th percentile per-packet one-way delay: 171.608 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 311.33 Mbit/s
95th percentile per-packet one-way delay: 74.616 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 287.84 Mbit/s
95th percentile per-packet one-way delay: 81.839 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 391.79 Mbit/s
95th percentile per-packet one-way delay: 192.396 ms
Loss rate: 1.02%
Run 4: Report of TCP Cubic — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 311.45 Mbit/s)
- Flow 1 egress (mean 311.33 Mbit/s)
- Flow 2 ingress (mean 287.94 Mbit/s)
- Flow 2 egress (mean 287.86 Mbit/s)
- Flow 3 ingress (mean 395.07 Mbit/s)
- Flow 3 egress (mean 391.79 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 74.62 ms)
- Flow 2 (95th percentile 81.84 ms)
- Flow 3 (95th percentile 192.40 ms)
Run 5: Statistics of TCP Cubic

Start at: 2020-02-19 06:39:15
End at: 2020-02-19 06:39:45
Local clock offset: 0.236 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2020-02-19 07:37:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 606.31 Mbit/s
95th percentile per-packet one-way delay: 216.921 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 374.24 Mbit/s
95th percentile per-packet one-way delay: 194.735 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 253.30 Mbit/s
95th percentile per-packet one-way delay: 235.636 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 190.97 Mbit/s
95th percentile per-packet one-way delay: 194.504 ms
Loss rate: 2.78%
Run 5: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2020-02-19 03:44:29
End at: 2020-02-19 03:44:59
Local clock offset: 0.173 ms
Remote clock offset: -1.054 ms

# Below is generated by plot.py at 2020-02-19 07:44:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 765.94 Mbit/s
95th percentile per-packet one-way delay: 102.481 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 463.32 Mbit/s
95th percentile per-packet one-way delay: 112.889 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 325.00 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 257.99 Mbit/s
95th percentile per-packet one-way delay: 61.311 ms
Loss rate: 0.00%
Run 1: Report of FillP — Data Link

![Graph showing network performance metrics over time, including throughput and packet delay.](image_url)
Run 2: Statistics of FillP

Start at: 2020-02-19 04:23:34
End at: 2020-02-19 04:24:04
Local clock offset: -0.151 ms
Remote clock offset: 0.595 ms

# Below is generated by plot.py at 2020-02-19 07:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 764.62 Mbit/s
95th percentile per-packet one-way delay: 121.571 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 448.33 Mbit/s
95th percentile per-packet one-way delay: 128.069 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 338.85 Mbit/s
95th percentile per-packet one-way delay: 62.334 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 274.51 Mbit/s
95th percentile per-packet one-way delay: 66.216 ms
Loss rate: 0.00%
Run 2: Report of FillP — Data Link

**Graph 1:**
- **Y-axis:** Throughput (Mbit/s)
- **X-axis:** Time (s)
- Legend:
  - Flow 1 ingress (mean 451.68 Mbit/s)
  - Flow 1 egress (mean 448.33 Mbit/s)
  - Flow 2 ingress (mean 338.84 Mbit/s)
  - Flow 2 egress (mean 338.85 Mbit/s)
  - Flow 3 ingress (mean 274.57 Mbit/s)
  - Flow 3 egress (mean 274.51 Mbit/s)

**Graph 2:**
- **Y-axis:** Per-packet one-way delay (ms)
- **X-axis:** Time (s)
- Legend:
  - Flow 1 (95th percentile 128.07 ms)
  - Flow 2 (95th percentile 62.33 ms)
  - Flow 3 (95th percentile 66.22 ms)
Run 3: Statistics of FillP

Start at: 2020-02-19 05:02:31
End at: 2020-02-19 05:03:01
Local clock offset: -0.476 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2020-02-19 07:59:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 711.55 Mbit/s
95th percentile per-packet one-way delay: 65.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.32 Mbit/s
95th percentile per-packet one-way delay: 63.058 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 341.46 Mbit/s
95th percentile per-packet one-way delay: 69.545 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 235.70 Mbit/s
95th percentile per-packet one-way delay: 60.552 ms
Loss rate: 0.00%
Run 3: Report of FillP — Data Link

---

**Throughput (Mbit/s)**

![Throughput Graph]

- Flow 1 ingress (mean 406.37 Mbit/s)
- Flow 1 egress (mean 406.32 Mbit/s)
- Flow 2 ingress (mean 341.46 Mbit/s)
- Flow 2 egress (mean 341.46 Mbit/s)
- Flow 3 ingress (mean 235.69 Mbit/s)
- Flow 3 egress (mean 235.79 Mbit/s)

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

![Per-packet Delay Graph]

- Flow 1 (95th percentile 63.06 ms)
- Flow 2 (95th percentile 69.55 ms)
- Flow 3 (95th percentile 60.55 ms)
Run 4: Statistics of FillP

Start at: 2020-02-19 05:41:15
End at: 2020-02-19 05:41:45
Local clock offset: -0.104 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2020-02-19 07:59:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 630.57 Mbit/s
  95th percentile per-packet one-way delay: 92.032 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 333.04 Mbit/s
  95th percentile per-packet one-way delay: 106.045 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 326.53 Mbit/s
  95th percentile per-packet one-way delay: 66.434 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 242.87 Mbit/s
  95th percentile per-packet one-way delay: 62.065 ms
  Loss rate: 0.00%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2020-02-19 06:20:04
End at: 2020-02-19 06:20:34
Local clock offset: -0.105 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2020-02-19 08:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 724.68 Mbit/s
95th percentile per.packet one-way delay: 93.581 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 442.87 Mbit/s
95th percentile per.packet one-way delay: 103.783 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 321.29 Mbit/s
95th percentile per.packet one-way delay: 67.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.49 Mbit/s
95th percentile per.packet one-way delay: 60.589 ms
Loss rate: 0.00%
Run 5: Report of FillP — Data Link

![Throughput vs Time Graph]

- Flow 1 ingress (mean 444.59 Mbit/s)
- Flow 1 egress (mean 442.87 Mbit/s)
- Flow 2 ingress (mean 321.41 Mbit/s)
- Flow 2 egress (mean 321.29 Mbit/s)
- Flow 3 ingress (mean 296.50 Mbit/s)
- Flow 3 egress (mean 296.49 Mbit/s)

![Delay vs Time Graph]

- Flow 1 (95th percentile 103.78 ms)
- Flow 2 (95th percentile 67.09 ms)
- Flow 3 (95th percentile 60.59 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2020-02-19 03:38:11
End at: 2020-02-19 03:38:41
Local clock offset: 0.109 ms
Remote clock offset: -0.929 ms

# Below is generated by plot.py at 2020-02-19 08:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 674.79 Mbit/s
95th percentile per-packet one-way delay: 73.679 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 408.16 Mbit/s
95th percentile per-packet one-way delay: 79.263 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 289.98 Mbit/s
95th percentile per-packet one-way delay: 60.459 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 220.50 Mbit/s
95th percentile per-packet one-way delay: 62.014 ms
Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 409.44 Mbit/s)  Flow 1 egress (mean 408.16 Mbit/s)
Flow 2 ingress (mean 290.01 Mbit/s)  Flow 2 egress (mean 289.98 Mbit/s)
Flow 3 ingress (mean 220.49 Mbit/s)  Flow 3 egress (mean 220.50 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 79.26 ms)  Flow 2 (95th percentile 60.46 ms)  Flow 3 (95th percentile 62.01 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2020-02-19 04:17:10
End at: 2020-02-19 04:17:40
Local clock offset: -0.086 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-02-19 08:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 692.77 Mbit/s
95th percentile per-packet one-way delay: 82.560 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 421.55 Mbit/s
95th percentile per-packet one-way delay: 89.594 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 288.38 Mbit/s
95th percentile per-packet one-way delay: 60.845 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.14 Mbit/s
95th percentile per-packet one-way delay: 64.478 ms
Loss rate: 0.06%
Run 2: Report of FillP-Sheep — Data Link

![Graph showing data link performance]

- **Flow 1 ingress (mean 421.55 Mbit/s)**
- **Flow 1 egress (mean 421.55 Mbit/s)**
- **Flow 2 ingress (mean 288.41 Mbit/s)**
- **Flow 2 egress (mean 288.38 Mbit/s)**
- **Flow 3 ingress (mean 240.23 Mbit/s)**
- **Flow 3 egress (mean 240.14 Mbit/s)**

![Graph showing per-packet delay]

- **Flow 1 (95th percentile 89.59 ms)**
- **Flow 2 (95th percentile 60.84 ms)**
- **Flow 3 (95th percentile 64.48 ms)**
Run 3: Statistics of FillP-Sheep

Start at: 2020-02-19 04:56:13
End at: 2020-02-19 04:56:43
Local clock offset: 0.154 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-02-19 08:00:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 708.97 Mbit/s
95th percentile per-packet one-way delay: 97.894 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 441.17 Mbit/s
95th percentile per-packet one-way delay: 109.609 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 272.12 Mbit/s
95th percentile per-packet one-way delay: 61.906 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 259.53 Mbit/s
95th percentile per-packet one-way delay: 66.237 ms
Loss rate: 0.02%
Run 3: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 442.80 Mbit/s)**
- **Flow 1 egress (mean 441.17 Mbit/s)**
- **Flow 2 ingress (mean 272.13 Mbit/s)**
- **Flow 2 egress (mean 272.12 Mbit/s)**
- **Flow 3 ingress (mean 259.32 Mbit/s)**
- **Flow 3 egress (mean 259.53 Mbit/s)**

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

- **Flow 1 (95th percentile 109.61 ms)**
- **Flow 2 (95th percentile 61.91 ms)**
- **Flow 3 (95th percentile 66.24 ms)**
Run 4: Statistics of FillP-Sheep

Start at: 2020-02-19 05:35:02
End at: 2020-02-19 05:35:32
Local clock offset: 0.247 ms
Remote clock offset: 0.288 ms

# Below is generated by plot.py at 2020-02-19 08:07:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 734.69 Mbit/s
  95th percentile per-packet one-way delay: 95.976 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 445.21 Mbit/s
  95th percentile per-packet one-way delay: 99.746 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 309.67 Mbit/s
  95th percentile per-packet one-way delay: 67.817 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 252.12 Mbit/s
  95th percentile per-packet one-way delay: 62.091 ms
  Loss rate: 0.00%
Run 4: Report of FillP-Sheep — Data Link

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**Throughput (Mbps):**
- **Flow 1 ingress (mean 445.49 Mbps)**
- **Flow 1 egress (mean 445.21 Mbps)**
- **Flow 2 ingress (mean 309.67 Mbps)**
- **Flow 2 egress (mean 309.67 Mbps)**
- **Flow 3 ingress (mean 252.23 Mbps)**
- **Flow 3 egress (mean 252.22 Mbps)**

**Per-packet one-way delay (ms):**
- **Flow 1 (95th percentile 99.75 ms)**
- **Flow 2 (95th percentile 67.82 ms)**
- **Flow 3 (95th percentile 62.09 ms)**
Run 5: Statistics of FillP-Sheep

Start at: 2020-02-19 06:13:39
End at: 2020-02-19 06:14:09
Local clock offset: -0.445 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 684.63 Mbit/s
95th percentile per-packet one-way delay: 84.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 414.23 Mbit/s
95th percentile per-packet one-way delay: 90.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 297.17 Mbit/s
95th percentile per-packet one-way delay: 62.823 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 220.67 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 0.00%
Run 5: Report of FillP-Sheep — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 414.23 Mbps)
- Flow 1 egress (mean 414.23 Mbps)
- Flow 2 ingress (mean 297.20 Mbps)
- Flow 2 egress (mean 297.17 Mbps)
- Flow 3 ingress (mean 220.67 Mbps)
- Flow 3 egress (mean 220.67 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 90.02 ms)
- Flow 2 (95th percentile 62.82 ms)
- Flow 3 (95th percentile 60.12 ms)
Run 1: Statistics of Indigo

Start at: 2020-02-19 03:41:37
End at: 2020-02-19 03:42:07
Local clock offset: 0.488 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 270.92 Mbit/s
95th percentile per-packet one-way delay: 58.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.84 Mbit/s
95th percentile per-packet one-way delay: 58.263 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.72 Mbit/s
95th percentile per-packet one-way delay: 58.941 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.82 Mbit/s
95th percentile per-packet one-way delay: 59.676 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2020-02-19 04:20:40
End at: 2020-02-19 04:21:10
Local clock offset: -0.126 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.06 Mbit/s
95th percentile per-packet one-way delay: 60.831 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 165.54 Mbit/s
95th percentile per-packet one-way delay: 59.830 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 141.46 Mbit/s
95th percentile per-packet one-way delay: 59.002 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 110.90 Mbit/s
95th percentile per-packet one-way delay: 62.696 ms
Loss rate: 0.02%
Run 2: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 165.56 Mbit/s)
- Flow 1 egress (mean 165.54 Mbit/s)
- Flow 2 ingress (mean 141.46 Mbit/s)
- Flow 2 egress (mean 141.46 Mbit/s)
- Flow 3 ingress (mean 110.90 Mbit/s)
- Flow 3 egress (mean 110.90 Mbit/s)

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

- Flow 1 (95th percentile 59.03 ms)
- Flow 2 (95th percentile 59.00 ms)
- Flow 3 (95th percentile 62.70 ms)
Run 3: Statistics of Indigo

Start at: 2020-02-19 04:59:37
End at: 2020-02-19 05:00:07
Local clock offset: -0.141 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.82 Mbit/s
95th percentile per-packet one-way delay: 62.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.89 Mbit/s
95th percentile per-packet one-way delay: 60.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 149.53 Mbit/s
95th percentile per-packet one-way delay: 64.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.21 Mbit/s
95th percentile per-packet one-way delay: 62.176 ms
Loss rate: 0.02%

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Run 3: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 158.90 Mbps)
- Flow 1 egress (mean 158.89 Mbps)
- Flow 2 ingress (mean 149.53 Mbps)
- Flow 2 egress (mean 149.53 Mbps)
- Flow 3 ingress (mean 124.22 Mbps)
- Flow 3 egress (mean 124.21 Mbps)

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

- Flow 1 (95th percentile 60.24 ms)
- Flow 2 (95th percentile 64.50 ms)
- Flow 3 (95th percentile 62.18 ms)
Run 4: Statistics of Indigo

Start at: 2020-02-19 05:38:24
End at: 2020-02-19 05:38:54
Local clock offset: 0.253 ms
Remote clock offset: -0.753 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.50 Mbit/s
95th percentile per-packet one-way delay: 61.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.83 Mbit/s
95th percentile per-packet one-way delay: 62.345 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 127.47 Mbit/s
95th percentile per-packet one-way delay: 58.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.55 Mbit/s
95th percentile per-packet one-way delay: 57.006 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2020-02-19 06:17:10
End at: 2020-02-19 06:17:40
Local clock offset: 0.267 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.84 Mbit/s
95th percentile per-packet one-way delay: 62.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 158.98 Mbit/s
95th percentile per-packet one-way delay: 60.788 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.80 Mbit/s
95th percentile per-packet one-way delay: 64.534 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 128.21 Mbit/s
95th percentile per-packet one-way delay: 62.054 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-19 03:33:37
End at: 2020-02-19 03:34:07
Local clock offset: 0.799 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2020-02-19 08:18:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 525.74 Mbit/s
95th percentile per-packet one-way delay: 60.149 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 326.44 Mbit/s
95th percentile per-packet one-way delay: 58.423 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 250.17 Mbit/s
95th percentile per-packet one-way delay: 58.379 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 168.77 Mbit/s
95th percentile per-packet one-way delay: 61.527 ms
Loss rate: 0.05%
Run 1: Report of Indigo-MusesC3 — Data Link

[Graph showing throughput and delay over time for different flows]
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-19 04:12:33
End at: 2020-02-19 04:13:03
Local clock offset: 0.283 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2020-02-19 08:21:38
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 516.10 Mbit/s
   95th percentile per-packet one-way delay: 58.857 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 323.13 Mbit/s
   95th percentile per-packet one-way delay: 58.931 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 253.47 Mbit/s
   95th percentile per-packet one-way delay: 58.581 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 157.37 Mbit/s
   95th percentile per-packet one-way delay: 59.374 ms
   Loss rate: 0.00%
Run 2: Report of Indigo-MusesC3 — Data Link

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

![Graph of End-to-End Delay over time](image2)
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-19 04:51:35
End at: 2020-02-19 04:52:05
Local clock offset: -0.222 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-02-19 08:26:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 540.58 Mbit/s
  95th percentile per-packet one-way delay: 73.968 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 340.11 Mbit/s
  95th percentile per-packet one-way delay: 79.846 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 261.38 Mbit/s
  95th percentile per-packet one-way delay: 64.548 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 152.13 Mbit/s
  95th percentile per-packet one-way delay: 62.336 ms
  Loss rate: 0.11%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-19 05:30:27
End at: 2020-02-19 05:30:57
Local clock offset: -0.419 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2020-02-19 08:26:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 523.88 Mbit/s
95th percentile per-packet one-way delay: 90.403 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.84 Mbit/s
95th percentile per-packet one-way delay: 97.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 268.62 Mbit/s
95th percentile per-packet one-way delay: 86.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.70 Mbit/s
95th percentile per-packet one-way delay: 59.499 ms
Loss rate: 0.01%
Run 4: Report of Indigo-MusesC3 — Data Link
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-19 06:09:04
End at: 2020-02-19 06:09:34
Local clock offset: -0.067 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 08:27:26
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 507.99 Mbit/s
  95th percentile per-packet one-way delay: 76.550 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 320.20 Mbit/s
  95th percentile per-packet one-way delay: 78.521 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 252.59 Mbit/s
  95th percentile per-packet one-way delay: 65.193 ms
  Loss rate: 0.00%
  -- Flow 3:
  Average throughput: 132.31 Mbit/s
  95th percentile per-packet one-way delay: 61.735 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 320.19 Mbit/s)  
Flow 1 egress (mean 320.20 Mbit/s)  
Flow 2 ingress (mean 252.59 Mbit/s)  
Flow 2 egress (mean 252.59 Mbit/s)  
Flow 3 ingress (mean 132.12 Mbit/s)  
Flow 3 egress (mean 132.31 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 78.52 ms)  
Flow 2 (95th percentile 65.19 ms)  
Flow 3 (95th percentile 61.73 ms)
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-19 03:49:25
End at: 2020-02-19 03:49:55
Local clock offset: -0.1 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2020-02-19 08:28:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 552.21 Mbit/s
95th percentile per-packet one-way delay: 60.926 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.66 Mbit/s
95th percentile per-packet one-way delay: 61.410 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 261.16 Mbit/s
95th percentile per-packet one-way delay: 59.045 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 61.231 ms
Loss rate: 0.02%
Run 1: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and per packet one-way delay over time for different flows.](image-url)
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-19 04:28:25
End at: 2020-02-19 04:28:55
Local clock offset: -0.49 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2020-02-19 08:29:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 558.27 Mbit/s
95th percentile per-packet one-way delay: 99.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.81 Mbit/s
95th percentile per-packet one-way delay: 89.934 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 278.94 Mbit/s
95th percentile per-packet one-way delay: 123.864 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 58.516 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-19 05:07:23
End at: 2020-02-19 05:07:53
Local clock offset: -0.123 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2020-02-19 08:29:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.11 Mbit/s
95th percentile per-packet one-way delay: 122.634 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 285.44 Mbit/s
95th percentile per-packet one-way delay: 127.533 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 260.40 Mbit/s
95th percentile per-packet one-way delay: 116.602 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 70.90 Mbit/s
95th percentile per-packet one-way delay: 61.138 ms
Loss rate: 0.02%
Run 3: Report of Indigo-MusesC5 — Data Link

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

Flow 1 ingress (mean 285.43 Mbit/s)  
Flow 1 egress (mean 285.44 Mbit/s)  
Flow 2 ingress (mean 250.40 Mbit/s)  
Flow 2 egress (mean 250.40 Mbit/s)  
Flow 3 ingress (mean 70.01 Mbit/s)  
Flow 3 egress (mean 70.90 Mbit/s)

Per packet one-way delay (ms)

- Flow 1 (95th percentile 127.53 ms)
- Flow 2 (95th percentile 116.68 ms)
- Flow 3 (95th percentile 61.14 ms)
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-19 05:46:00
End at: 2020-02-19 05:46:30
Local clock offset: -0.096 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2020-02-19 08:32:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.20 Mbit/s
95th percentile per-packet one-way delay: 93.672 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 323.05 Mbit/s
95th percentile per-packet one-way delay: 102.800 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 275.44 Mbit/s
95th percentile per-packet one-way delay: 66.062 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 57.912 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC5 — Data Link

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

Legend:
- Flow 1 ingress (mean 323.05 Mbit/s)
- Flow 1 egress (mean 323.05 Mbit/s)
- Flow 2 ingress (mean 276.17 Mbit/s)
- Flow 2 egress (mean 275.44 Mbit/s)
- Flow 3 ingress (mean 93.33 Mbit/s)
- Flow 3 egress (mean 93.34 Mbit/s)

Legend for latency:
- Flow 1 (95th percentile 102.80 ms)
- Flow 2 (95th percentile 66.06 ms)
- Flow 3 (95th percentile 57.91 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-19 06:24:56
End at: 2020-02-19 06:25:26
Local clock offset: -0.439 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-02-19 08:32:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.77 Mbit/s
95th percentile per-packet one-way delay: 99.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 231.14 Mbit/s
95th percentile per-packet one-way delay: 113.390 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 227.77 Mbit/s
95th percentile per-packet one-way delay: 65.191 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 58.284 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC5 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 231.14 Mbps)
Flow 1 egress (mean 231.14 Mbps)
Flow 2 ingress (mean 227.77 Mbps)
Flow 2 egress (mean 227.77 Mbps)
Flow 3 ingress (mean 78.12 Mbps)
Flow 3 egress (mean 78.12 Mbps)

Packet latency (ms)

Time (s)

Flow 1 (95th percentile 113.39 ms)
Flow 2 (95th percentile 65.19 ms)
Flow 3 (95th percentile 58.28 ms)
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-19 04:02:26
End at: 2020-02-19 04:02:56
Local clock offset: 0.325 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-19 08:38:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.26 Mbit/s
95th percentile per-packet one-way delay: 58.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.63 Mbit/s
95th percentile per-packet one-way delay: 58.915 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 248.41 Mbit/s
95th percentile per-packet one-way delay: 58.082 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 57.166 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 294.62 Mbps) — Flow 1 egress (mean 294.63 Mbps)
Flow 2 ingress (mean 248.40 Mbps) — Flow 2 egress (mean 248.41 Mbps)
Flow 3 ingress (mean 53.32 Mbps) — Flow 3 egress (mean 53.32 Mbps)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 58.91 ms) — Flow 2 (95th percentile 58.08 ms) — Flow 3 (95th percentile 57.17 ms)
Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-19 04:41:27
End at: 2020-02-19 04:41:57
Local clock offset: -0.144 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2020-02-19 08:40:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.02 Mbit/s
95th percentile per-packet one-way delay: 88.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.68 Mbit/s
95th percentile per-packet one-way delay: 93.654 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 274.40 Mbit/s
95th percentile per-packet one-way delay: 63.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.36 Mbit/s
95th percentile per-packet one-way delay: 58.700 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

[Graphs showing throughput and packet loss over time for different flows with specified mean throughput and 95th percentile delay.]
Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-19 05:20:16
End at: 2020-02-19 05:20:46
Local clock offset: -0.43 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-02-19 08:40:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 515.39 Mbit/s
  95th percentile per-packet one-way delay: 76.647 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 310.91 Mbit/s
  95th percentile per-packet one-way delay: 85.683 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 251.36 Mbit/s
  95th percentile per-packet one-way delay: 59.988 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 194.57 Mbit/s
  95th percentile per-packet one-way delay: 62.781 ms
  Loss rate: 0.03%
Run 3: Report of Indigo-MusesD — Data Link
Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-19 05:58:57
End at: 2020-02-19 05:59:27
Local clock offset: -0.444 ms
Remote clock offset: -0.844 ms

# Below is generated by plot.py at 2020-02-19 08:40:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 454.40 Mbit/s
95th percentile per-packet one-way delay: 90.107 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.90 Mbit/s
95th percentile per-packet one-way delay: 95.227 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 234.52 Mbit/s
95th percentile per-packet one-way delay: 59.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 179.72 Mbit/s
95th percentile per-packet one-way delay: 61.754 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 261.89 Mbps)
- Flow 1 egress (mean 261.90 Mbps)
- Flow 2 ingress (mean 234.52 Mbps)
- Flow 2 egress (mean 234.52 Mbps)
- Flow 3 ingress (mean 179.60 Mbps)
- Flow 3 egress (mean 179.72 Mbps)

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

- Flow 1 (95th percentile 95.23 ms)
- Flow 2 (95th percentile 59.28 ms)
- Flow 3 (95th percentile 61.75 ms)
Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-19 06:37:40
End at: 2020-02-19 06:38:10
Local clock offset: 0.218 ms
Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2020-02-19 08:40:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 451.51 Mbit/s
  95th percentile per-packet one-way delay: 88.870 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 259.55 Mbit/s
  95th percentile per-packet one-way delay: 92.897 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 231.92 Mbit/s
  95th percentile per-packet one-way delay: 62.710 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 175.73 Mbit/s
  95th percentile per-packet one-way delay: 59.839 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

![Graph of Throughput vs Time]

- Flow 1 ingress (mean 259.55 Mbit/s)
- Flow 1 egress (mean 259.55 Mbit/s)
- Flow 2 ingress (mean 231.94 Mbit/s)
- Flow 2 egress (mean 231.92 Mbit/s)
- Flow 3 ingress (mean 175.73 Mbit/s)
- Flow 3 egress (mean 175.73 Mbit/s)

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

- Flow 1 (95th percentile 92.90 ms)
- Flow 2 (95th percentile 62.71 ms)
- Flow 3 (95th percentile 59.84 ms)
Run 1: Statistics of Indigo-MuseST

Start at: 2020-02-19 03:30:13
End at: 2020-02-19 03:30:43
Local clock offset: 0.041 ms
Remote clock offset: -0.243 ms
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 269.31 Mbit/s)
- Flow 1 egress (mean 269.34 Mbit/s)
- Flow 2 ingress (mean 255.43 Mbit/s)
- Flow 2 egress (mean 255.43 Mbit/s)
- Flow 3 ingress (mean 97.56 Mbit/s)
- Flow 3 egress (mean 97.56 Mbit/s)

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

- Flow 1 (95th percentile 59.26 ms)
- Flow 2 (95th percentile 59.07 ms)
- Flow 3 (95th percentile 58.37 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-02-19 04:09:03
End at: 2020-02-19 04:09:33
Local clock offset: 0.289 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2020-02-19 08:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.47 Mbit/s
95th percentile per-packet one-way delay: 60.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 352.88 Mbit/s
95th percentile per-packet one-way delay: 61.816 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 267.25 Mbit/s
95th percentile per-packet one-way delay: 59.032 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 57.427 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesT — Data Link

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

- Blue dashed line: Flow 1 ingress (mean 352.88 Mbps)
- Blue solid line: Flow 1 egress (mean 352.88 Mbps)
- Green dashed line: Flow 2 ingress (mean 267.25 Mbps)
- Green solid line: Flow 2 egress (mean 267.25 Mbps)
- Red dotted line: Flow 3 ingress (mean 93.41 Mbps)
- Red dashed line: Flow 3 egress (mean 93.41 Mbps)

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

- Blue circles: Flow 1 (95th percentile 41.82 ms)
- Yellow circles: Flow 2 (95th percentile 59.03 ms)
- Red circles: Flow 3 (95th percentile 57.43 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2020-02-19 04:48:08
End at: 2020-02-19 04:48:38
Local clock offset: -0.24 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2020-02-19 08:45:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 546.59 Mbit/s
  95th percentile per-packet one-way delay: 78.232 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 320.89 Mbit/s
  95th percentile per-packet one-way delay: 83.870 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 264.49 Mbit/s
  95th percentile per-packet one-way delay: 74.822 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 202.95 Mbit/s
  95th percentile per-packet one-way delay: 60.764 ms
  Loss rate: 0.00%
Run 3: Report of Indigo-MusesT — Data Link

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

- **Flow 1 ingress (mean 320.88 Mbit/s)**
- **Flow 1 egress (mean 320.89 Mbit/s)**
- **Flow 2 ingress (mean 264.29 Mbit/s)**
- **Flow 2 egress (mean 264.49 Mbit/s)**
- **Flow 3 ingress (mean 202.87 Mbit/s)**
- **Flow 3 egress (mean 202.99 Mbit/s)**

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

- **Flow 1 (95th percentile 83.87 ms)**
- **Flow 2 (95th percentile 74.82 ms)**
- **Flow 3 (95th percentile 60.76 ms)**
Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-19 05:26:56
End at: 2020-02-19 05:27:26
Local clock offset: -0.119 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2020-02-19 08:50:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 561.46 Mbit/s
  95th percentile per-packet one-way delay: 78.994 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 342.10 Mbit/s
  95th percentile per-packet one-way delay: 82.682 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 272.90 Mbit/s
  95th percentile per-packet one-way delay: 67.981 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 197.04 Mbit/s
  95th percentile per-packet one-way delay: 63.009 ms
  Loss rate: 0.00%
Run 4: Report of Indigo-MusesT — Data Link

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

![Graph 2: Per-Packet One-Way Delay](image2)
Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-19 06:05:36
End at: 2020-02-19 06:06:06
Local clock offset: -0.447 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2020-02-19 08:53:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 556.26 Mbit/s
95th percentile per-packet one-way delay: 84.385 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 342.84 Mbit/s
95th percentile per-packet one-way delay: 88.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 265.65 Mbit/s
95th percentile per-packet one-way delay: 66.717 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 190.47 Mbit/s
95th percentile per-packet one-way delay: 64.386 ms
Loss rate: 0.03%
Run 5: Report of Indigo-MusesT — Data Link

[Graph showing throughput over time for different flows]

[Another graph showing per-packet one-way delay over time for different flows]
Run 1: Statistics of LEDBAT

Start at: 2020-02-19 03:59:56
End at: 2020-02-19 04:00:26
Local clock offset: -0.315 ms
Remote clock offset: 0.264 ms

# Below is generated by plot.py at 2020-02-19 08:53:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.45 Mbit/s
95th percentile per-packet one-way delay: 58.637 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.71 Mbit/s
95th percentile per-packet one-way delay: 58.535 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.89 Mbit/s
95th percentile per-packet one-way delay: 58.933 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 58.081 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Graph showing throughput and per-packet one-way delay for Flow 1, Flow 2, and Flow 3 with minimum time labels and mean throughput values.]

Flow 1 ingress (mean 28.72 Mbit/s)  
Flow 1 egress (mean 28.71 Mbit/s)  
Flow 2 ingress (mean 18.89 Mbit/s)  
Flow 2 egress (mean 18.89 Mbit/s)  
Flow 3 ingress (mean 9.45 Mbit/s)  
Flow 3 egress (mean 9.45 Mbit/s)
Run 2: Statistics of LEDBAT

Start at: 2020-02-19 04:38:58
End at: 2020-02-19 04:39:28
Local clock offset: -0.195 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2020-02-19 08:53:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 61.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 61.901 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.92 Mbit/s
95th percentile per-packet one-way delay: 61.543 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2020-02-19 05:17:46
End at: 2020-02-19 05:18:16
Local clock offset: -0.115 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2020-02-19 08:53:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.05 Mbit/s
95th percentile per-packet one-way delay: 58.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 58.305 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 57.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 57.970 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 26.98 Mbit/s)
- Flow 1 egress (mean 26.98 Mbit/s)
- Flow 2 ingress (mean 18.03 Mbit/s)
- Flow 2 egress (mean 18.03 Mbit/s)
- Flow 3 ingress (mean 9.35 Mbit/s)
- Flow 3 egress (mean 9.35 Mbit/s)
Run 4: Statistics of LEDBAT

Start at: 2020-02-19 05:56:27
End at: 2020-02-19 05:56:57
Local clock offset: -0.086 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2020-02-19 08:53:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 43.32 Mbit/s
  95th percentile per-packet one-way delay: 60.474 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 28.50 Mbit/s
  95th percentile per-packet one-way delay: 58.178 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 17.96 Mbit/s
  95th percentile per-packet one-way delay: 61.350 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 8.85 Mbit/s
  95th percentile per-packet one-way delay: 60.517 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

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

**Throughput (Mbps)**

- Flow 1 ingress (mean 28.50 Mbps)
- Flow 1 egress (mean 28.50 Mbps)
- Flow 2 ingress (mean 17.96 Mbps)
- Flow 2 egress (mean 17.96 Mbps)
- Flow 3 ingress (mean 8.85 Mbps)
- Flow 3 egress (mean 8.85 Mbps)

**Delay (ms)**

- Flow 1 (95th percentile 58.18 ms)
- Flow 2 (95th percentile 61.35 ms)
- Flow 3 (95th percentile 60.52 ms)
Run 5: Statistics of LEDBAT

Start at: 2020-02-19 06:35:10
End at: 2020-02-19 06:35:40
Local clock offset: -0.434 ms
Remote clock offset: 0.688 ms

# Below is generated by plot.py at 2020-02-19 08:53:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 44.24 Mbit/s
  95th percentile per-packet one-way delay: 59.746 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 28.45 Mbit/s
  95th percentile per-packet one-way delay: 59.838 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 18.98 Mbit/s
  95th percentile per-packet one-way delay: 59.686 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 9.53 Mbit/s
  95th percentile per-packet one-way delay: 58.761 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph showing throughput over time](image1)

- **Flow 1 ingress (mean 28.45 Mbit/s)**
- **Flow 1 egress (mean 28.45 Mbit/s)**
- **Flow 2 ingress (mean 18.98 Mbit/s)**
- **Flow 2 egress (mean 18.98 Mbit/s)**
- **Flow 3 ingress (mean 9.53 Mbit/s)**
- **Flow 3 egress (mean 9.53 Mbit/s)**

![Graph showing packet delay over time](image2)

- **Flow 1 (95th percentile 59.84 ms)**
- **Flow 2 (95th percentile 59.69 ms)**
- **Flow 3 (95th percentile 58.76 ms)**

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Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-19 03:54:36
End at: 2020-02-19 03:55:06
Local clock offset: 0.136 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2020-02-19 08:56:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.58 Mbit/s
95th percentile per-packet one-way delay: 61.272 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.31 Mbit/s
95th percentile per-packet one-way delay: 59.042 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 209.14 Mbit/s
95th percentile per-packet one-way delay: 61.603 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 190.40 Mbit/s
95th percentile per-packet one-way delay: 61.962 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link

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

- Flow 1 ingress (mean 319.30 Mbps)
- Flow 1 egress (mean 319.31 Mbps)
- Flow 2 ingress (mean 209.14 Mbps)
- Flow 2 egress (mean 209.14 Mbps)
- Flow 3 ingress (mean 190.32 Mbps)
- Flow 3 egress (mean 190.40 Mbps)

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

- Flow 1 (95th percentile 59.04 ms)
- Flow 2 (95th percentile 61.60 ms)
- Flow 3 (95th percentile 61.96 ms)
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-02-19 04:33:41
End at: 2020-02-19 04:34:11
Local clock offset: -0.161 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2020-02-19 08:56:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.20 Mbit/s
95th percentile per-packet one-way delay: 70.755 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 298.63 Mbit/s
95th percentile per-packet one-way delay: 72.870 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 195.69 Mbit/s
95th percentile per-packet one-way delay: 57.926 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.03 Mbit/s
95th percentile per-packet one-way delay: 63.312 ms
Loss rate: 0.03%
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-02-19 05:12:29
End at: 2020-02-19 05:12:59
Local clock offset: ~0.128 ms
Remote clock offset: 0.595 ms

# Below is generated by plot.py at 2020-02-19 08:57:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 505.30 Mbit/s
  95th percentile per-packet one-way delay: 69.293 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 292.60 Mbit/s
  95th percentile per-packet one-way delay: 75.634 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 252.33 Mbit/s
  95th percentile per-packet one-way delay: 66.905 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 147.10 Mbit/s
  95th percentile per-packet one-way delay: 59.015 ms
  Loss rate: 0.00%
Run 3: Report of Muses

DecisionTree — Data Link

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

- Flow 1 ingress (mean 292.59 Mbps)
- Flow 1 egress (mean 292.60 Mbps)
- Flow 2 ingress (mean 252.33 Mbps)
- Flow 2 egress (mean 252.33 Mbps)
- Flow 3 ingress (mean 147.10 Mbps)
- Flow 3 egress (mean 147.10 Mbps)

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

- Flow 1 (95th percentile 75.63 ms)
- Flow 2 (95th percentile 66.91 ms)
- Flow 3 (95th percentile 59.02 ms)
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-02-19 05:51:09  
End at: 2020-02-19 05:51:39  
Local clock offset: ~0.119 ms  
Remote clock offset: ~0.792 ms

# Below is generated by plot.py at 2020-02-19 08:57:46  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 501.97 Mbit/s  
95th percentile per-packet one-way delay: 68.520 ms  
Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 299.15 Mbit/s  
  95th percentile per-packet one-way delay: 71.539 ms  
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 224.97 Mbit/s  
  95th percentile per-packet one-way delay: 59.618 ms  
  Loss rate: 0.00%
  -- Flow 3:
  Average throughput: 174.17 Mbit/s  
  95th percentile per-packet one-way delay: 61.343 ms  
  Loss rate: 0.04%
Run 4: Report of Muses_DecisionTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-02-19 06:29:53  
End at: 2020-02-19 06:30:23  
Local clock offset: -0.09 ms  
Remote clock offset: 0.108 ms  

# Below is generated by plot.py at 2020-02-19 08:59:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 489.79 Mbit/s  
95th percentile per-packet one-way delay: 61.510 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 284.82 Mbit/s  
95th percentile per-packet one-way delay: 59.735 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 237.42 Mbit/s  
95th percentile per-packet one-way delay: 69.023 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 155.42 Mbit/s  
95th percentile per-packet one-way delay: 59.212 ms  
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTree — Data Link

![Graph showing throughput and per-packet one-way delay]
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-19 03:51:05
End at: 2020-02-19 03:51:35
Local clock offset: 0.176 ms
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2020-02-19 08:59:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.78 Mbit/s
95th percentile per-packet one-way delay: 74.058 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 274.72 Mbit/s
95th percentile per-packet one-way delay: 73.254 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 226.07 Mbit/s
95th percentile per-packet one-way delay: 80.726 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 170.06 Mbit/s
95th percentile per-packet one-way delay: 66.005 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 274.76 Mbit/s)
- Flow 1 egress (mean 274.72 Mbit/s)
- Flow 2 ingress (mean 226.12 Mbit/s)
- Flow 2 egress (mean 226.07 Mbit/s)
- Flow 3 ingress (mean 169.84 Mbit/s)
- Flow 3 egress (mean 170.06 Mbit/s)

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

- Flow 1 (95th percentile 73.25 ms)
- Flow 2 (95th percentile 80.73 ms)
- Flow 3 (95th percentile 66.00 ms)
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-19 04:30:05
End at: 2020-02-19 04:30:35
Local clock offset: -0.173 ms
Remote clock offset: -0.836 ms

# Below is generated by plot.py at 2020-02-19 09:05:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 525.68 Mbit/s
95th percentile per-packet one-way delay: 74.086 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 289.96 Mbit/s
95th percentile per-packet one-way delay: 77.080 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 265.59 Mbit/s
95th percentile per-packet one-way delay: 68.964 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 189.03 Mbit/s
95th percentile per-packet one-way delay: 63.294 ms
Loss rate: 0.15%
Run 2: Report of Muses

Decision Tree H0 — Data Link

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

- **Flow 1 ingress (mean 289.95 Mbit/s)**
- **Flow 1 egress (mean 289.96 Mbit/s)**
- **Flow 2 ingress (mean 265.46 Mbit/s)**
- **Flow 2 egress (mean 265.59 Mbit/s)**
- **Flow 3 ingress (mean 189.27 Mbit/s)**
- **Flow 3 egress (mean 189.03 Mbit/s)**
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-19 05:08:59
End at: 2020-02-19 05:09:29
Local clock offset: -0.119 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2020-02-19 09:05:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 448.98 Mbit/s
  95th percentile per-packet one-way delay: 114.811 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 229.69 Mbit/s
  95th percentile per-packet one-way delay: 139.722 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 244.53 Mbit/s
  95th percentile per-packet one-way delay: 81.410 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 183.22 Mbit/s
  95th percentile per-packet one-way delay: 62.976 ms
  Loss rate: 0.00%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

[Graphs showing network traffic and delay over time]
Run 4: Statistics of Muses\_DecisionTreeHO

Start at: 2020-02-19 05:47:39
End at: 2020-02-19 05:48:09
Local clock offset: -0.089 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2020-02-19 09:10:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 493.75 Mbit/s
  95th percentile per-packet one-way delay: 74.197 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 267.75 Mbit/s
  95th percentile per-packet one-way delay: 78.177 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 255.55 Mbit/s
  95th percentile per-packet one-way delay: 66.795 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 181.07 Mbit/s
  95th percentile per-packet one-way delay: 64.305 ms
  Loss rate: 0.03%
Run 4: Report of Muses_DecisionTreeH0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-19 06:26:28
End at: 2020-02-19 06:26:58
Local clock offset: -0.068 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-02-19 09:10:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 428.78 Mbit/s
  95th percentile per-packet one-way delay: 96.276 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 249.29 Mbit/s
  95th percentile per-packet one-way delay: 102.327 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 202.59 Mbit/s
  95th percentile per-packet one-way delay: 78.950 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 143.59 Mbit/s
  95th percentile per-packet one-way delay: 79.712 ms
  Loss rate: 0.00%
Run 5: Report of Muses

**Decision Tree H0 — Data Link**

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

- Flow 1 ingress (mean 249.30 Mbps)
- Flow 1 egress (mean 249.29 Mbps)
- Flow 2 ingress (mean 202.59 Mbps)
- Flow 2 egress (mean 202.59 Mbps)
- Flow 3 ingress (mean 143.62 Mbps)
- Flow 3 egress (mean 143.59 Mbps)

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

- Flow 1 (95th percentile 102.33 ms)
- Flow 2 (95th percentile 78.95 ms)
- Flow 3 (95th percentile 79.71 ms)
Run 1: Statistics of Muses\_DecisionTreeRO

Start at: 2020-02-19 03:36:31
End at: 2020-02-19 03:37:01
Local clock offset: 0.474 ms
Remote clock offset: -0.916 ms

# Below is generated by plot.py at 2020-02-19 09:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 527.68 Mbit/s
95th percentile per-packet one-way delay: 58.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 288.68 Mbit/s
95th percentile per-packet one-way delay: 58.350 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 270.16 Mbit/s
95th percentile per-packet one-way delay: 57.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 177.76 Mbit/s
95th percentile per-packet one-way delay: 58.931 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-19 04:15:29  
End at: 2020-02-19 04:15:59  
Local clock offset: -0.076 ms  
Remote clock offset: 0.264 ms

# Below is generated by plot.py at 2020-02-19 09:12:57  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 536.04 Mbit/s  
95th percentile per-packet one-way delay: 62.424 ms  
Loss rate: 0.00%  
-- Flow 1:
Average throughput: 317.79 Mbit/s  
95th percentile per-packet one-way delay: 63.838 ms  
Loss rate: 0.00%  
-- Flow 2:
Average throughput: 240.18 Mbit/s  
95th percentile per-packet one-way delay: 59.812 ms  
Loss rate: 0.01%  
-- Flow 3:
Average throughput: 187.59 Mbit/s  
95th percentile per-packet one-way delay: 58.988 ms  
Loss rate: 0.00%
Run 2: Report of Muses DecisionTreeR0 — Data Link

![Graph of throughput and delay over time for different flows. Legend shows mean throughput in Mbps for each flow: Flow 1 ingress (mean 317.79 Mbps), Flow 1 egress (mean 317.79 Mbps), Flow 2 ingress (mean 240.19 Mbps), Flow 2 egress (mean 240.18 Mbps), Flow 3 ingress (mean 187.51 Mbps), and Flow 3 egress (mean 187.59 Mbps).]
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-19 04:54:35
End at: 2020-02-19 04:55:05
Local clock offset: 0.168 ms
Remote clock offset: -0.493 ms

# Below is generated by plot.py at 2020-02-19 09:12:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 476.37 Mbit/s
95th percentile per-packet one-way delay: 67.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.69 Mbit/s
95th percentile per-packet one-way delay: 77.734 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 231.90 Mbit/s
95th percentile per-packet one-way delay: 57.429 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 197.13 Mbit/s
95th percentile per-packet one-way delay: 60.402 ms
Loss rate: 0.00%
Run 3: Report of Muses DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-19 05:33:24
End at: 2020-02-19 05:33:54
Local clock offset: 0.238 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2020-02-19 09:13:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 481.57 Mbit/s
  95th percentile per-packet one-way delay: 78.763 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 296.91 Mbit/s
  95th percentile per-packet one-way delay: 87.832 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 201.16 Mbit/s
  95th percentile per-packet one-way delay: 57.260 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 163.96 Mbit/s
  95th percentile per-packet one-way delay: 62.134 ms
  Loss rate: 0.05%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

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

![Graph 2: Packet Size vs Time](image2)
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-19 06:12:00
End at: 2020-02-19 06:12:30
Local clock offset: -0.426 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-02-19 09:18:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.45 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.51 Mbit/s
95th percentile per-packet one-way delay: 66.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 60.363 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 198.51 Mbit/s
95th percentile per-packet one-way delay: 59.108 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2020-02-19 03:31:41
End at: 2020-02-19 03:32:11
Local clock offset: 0.419 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-02-19 09:38:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 607.73 Mbit/s
  95th percentile per-packet one-way delay: 225.806 ms
  Loss rate: 7.44%
-- Flow 1:
  Average throughput: 357.83 Mbit/s
  95th percentile per-packet one-way delay: 231.714 ms
  Loss rate: 11.75%
-- Flow 2:
  Average throughput: 262.01 Mbit/s
  95th percentile per-packet one-way delay: 148.741 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 229.38 Mbit/s
  95th percentile per-packet one-way delay: 224.707 ms
  Loss rate: 0.22%
Run 1: Report of PCC-Allegro — Data Link

Throughput (Mbit/s)

- Flow 1 ingress (mean 405.50 Mbit/s)
- Flow 1 egress (mean 357.83 Mbit/s)
- Flow 2 ingress (mean 263.53 Mbit/s)
- Flow 2 egress (mean 262.01 Mbit/s)
- Flow 3 ingress (mean 229.84 Mbit/s)
- Flow 3 egress (mean 229.38 Mbit/s)

Per-packet one-way delay (ms)

- Flow 1 (95th percentile 231.71 ms)
- Flow 2 (95th percentile 148.74 ms)
- Flow 3 (95th percentile 224.71 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2020-02-19 04:10:43
End at: 2020-02-19 04:11:13
Local clock offset: -0.419 ms
Remote clock offset: 0.567 ms

# Below is generated by plot.py at 2020-02-19 09:38:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 542.00 Mbit/s
  95th percentile per-packet one-way delay: 205.126 ms
  Loss rate: 1.63%
-- Flow 1:
  Average throughput: 290.22 Mbit/s
  95th percentile per-packet one-way delay: 185.449 ms
  Loss rate: 1.07%
-- Flow 2:
  Average throughput: 265.17 Mbit/s
  95th percentile per-packet one-way delay: 247.776 ms
  Loss rate: 3.21%
-- Flow 3:
  Average throughput: 230.19 Mbit/s
  95th percentile per-packet one-way delay: 196.785 ms
  Loss rate: 0.03%
Run 2: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 293.35 Mbps)
- Flow 1 egress (mean 290.22 Mbps)
- Flow 2 ingress (mean 273.99 Mbps)
- Flow 2 egress (mean 265.17 Mbps)
- Flow 3 ingress (mean 230.20 Mbps)
- Flow 3 egress (mean 230.19 Mbps)

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

- Flow 1 (95th percentile 185.45 ms)
- Flow 2 (95th percentile 247.78 ms)
- Flow 3 (95th percentile 190.78 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-02-19 04:49:46
End at: 2020-02-19 04:50:16
Local clock offset: -0.207 ms
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2020-02-19 09:38:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 524.65 Mbit/s
95th percentile per-packet one-way delay: 174.809 ms
Loss rate: 0.57%

-- Flow 1:
Average throughput: 274.86 Mbit/s
95th percentile per-packet one-way delay: 218.957 ms
Loss rate: 1.09%

-- Flow 2:
Average throughput: 263.43 Mbit/s
95th percentile per-packet one-way delay: 112.561 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 226.45 Mbit/s
95th percentile per-packet one-way delay: 169.072 ms
Loss rate: 0.01%
Run 3: Report of PCC-Allegro — Data Link

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

Legend for graphs:
- Flow 1 ingress (mean 277.87 Mbit/s)
- Flow 1 egress (mean 274.86 Mbit/s)
- Flow 2 ingress (mean 263.43 Mbit/s)
- Flow 2 egress (mean 263.43 Mbit/s)
- Flow 3 ingress (mean 226.43 Mbit/s)
- Flow 3 egress (mean 226.45 Mbit/s)

Legend for per-packet one-way delay graphs:
- Flow 1 (95th percentile 218.96 ms)
- Flow 2 (95th percentile 112.56 ms)
- Flow 3 (95th percentile 169.07 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2020-02-19 05:28:37
End at: 2020-02-19 05:29:07
Local clock offset: -0.115 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2020-02-19 09:39:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 533.49 Mbit/s
  95th percentile per-packet one-way delay: 167.988 ms
  Loss rate: 1.42%
-- Flow 1:
  Average throughput: 293.26 Mbit/s
  95th percentile per-packet one-way delay: 179.549 ms
  Loss rate: 1.22%
-- Flow 2:
  Average throughput: 247.21 Mbit/s
  95th percentile per-packet one-way delay: 167.982 ms
  Loss rate: 2.42%
-- Flow 3:
  Average throughput: 230.84 Mbit/s
  95th percentile per-packet one-way delay: 126.176 ms
  Loss rate: 0.01%
Run 4: Report of PCC-Allegro — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 296.89 Mbps)
  - Flow 1 egress (mean 293.26 Mbps)
  - Flow 2 ingress (mean 253.34 Mbps)
  - Flow 2 egress (mean 247.21 Mbps)
  - Flow 3 ingress (mean 230.83 Mbps)
  - Flow 3 egress (mean 230.64 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 179.55 ms)
  - Flow 2 (95th percentile 167.99 ms)
  - Flow 3 (95th percentile 126.10 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2020-02-19 06:07:16
End at: 2020-02-19 06:07:46
Local clock offset: -0.074 ms
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2020-02-19 09:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 500.47 Mbit/s
95th percentile per-packet one-way delay: 219.273 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 278.23 Mbit/s
95th percentile per-packet one-way delay: 240.373 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 249.84 Mbit/s
95th percentile per-packet one-way delay: 112.696 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 170.93 Mbit/s
95th percentile per-packet one-way delay: 115.052 ms
Loss rate: 0.00%
Run 5: Report of PCC-Allegro — Data Link

![Graph showing throughput and per-packet round-trip delay over time for different flows]
Run 1: Statistics of PCC-Expr

Start at: 2020-02-19 03:58:07
End at: 2020-02-19 03:58:37
Local clock offset: -0.302 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2020-02-19 09:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 376.89 Mbit/s
95th percentile per-packet one-way delay: 178.967 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 193.98 Mbit/s
95th percentile per-packet one-way delay: 152.056 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 189.99 Mbit/s
95th percentile per-packet one-way delay: 160.586 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 171.17 Mbit/s
95th percentile per-packet one-way delay: 214.830 ms
Loss rate: 0.63%
Run 1: Report of PCC-Expr — Data Link

![Throughput Graph](image)

![Packet Delay Graph](image)

Flow 1 ingress (mean 195.02 Mbit/s)  Flow 1 egress (mean 193.98 Mbit/s)
Flow 2 ingress (mean 190.22 Mbit/s)  Flow 2 egress (mean 189.99 Mbit/s)
Flow 3 ingress (mean 172.25 Mbit/s)  Flow 3 egress (mean 171.17 Mbit/s)

Flow 1 (95th percentile 152.06 ms)  Flow 2 (95th percentile 160.59 ms)  Flow 3 (95th percentile 214.83 ms)
Run 2: Statistics of PCC-Expr

Start at: 2020-02-19 04:37:10
End at: 2020-02-19 04:37:40
Local clock offset: 0.167 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2020-02-19 09:39:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.51 Mbit/s
95th percentile per-packet one-way delay: 93.186 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.18 Mbit/s
95th percentile per-packet one-way delay: 161.126 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 180.31 Mbit/s
95th percentile per-packet one-way delay: 77.350 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 166.05 Mbit/s
95th percentile per-packet one-way delay: 72.319 ms
Loss rate: 0.00%
Run 2: Report of PCC-Expr — Data Link

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

Legend:
- Flow 1 ingress (mean 192.18 Mbit/s)
- Flow 1 egress (mean 192.18 Mbit/s)
- Flow 2 ingress (mean 180.31 Mbit/s)
- Flow 2 egress (mean 180.31 Mbit/s)
- Flow 3 ingress (mean 166.09 Mbit/s)
- Flow 3 egress (mean 166.09 Mbit/s)
Run 3: Statistics of PCC-Expr

Start at: 2020-02-19 05:15:59
End at: 2020-02-19 05:16:29
Local clock offset: 0.228 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2020-02-19 09:39:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 360.19 Mbit/s
  95th percentile per-packet one-way delay: 75.743 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 208.35 Mbit/s
  95th percentile per-packet one-way delay: 88.835 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 150.38 Mbit/s
  95th percentile per-packet one-way delay: 59.056 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 157.43 Mbit/s
  95th percentile per-packet one-way delay: 60.251 ms
  Loss rate: 0.06%
Run 3: Report of PCC-Expr — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 208.35 Mbit/s)
Flow 1 egress (mean 208.35 Mbit/s)
Flow 2 ingress (mean 150.38 Mbit/s)
Flow 2 egress (mean 150.38 Mbit/s)
Flow 3 ingress (mean 157.35 Mbit/s)
Flow 3 egress (mean 157.43 Mbit/s)

Per-packet end-to-end delay (ms)

Time (s)

Flow 1 (95th percentile 88.83 ms)
Flow 2 (95th percentile 59.06 ms)
Flow 3 (95th percentile 60.25 ms)
Run 4: Statistics of PCC-Expr

Start at: 2020-02-19 05:54:41
End at: 2020-02-19 05:55:11
Local clock offset: -0.072 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2020-02-19 09:48:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 350.41 Mbit/s
  95th percentile per-packet one-way delay: 86.121 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 188.59 Mbit/s
  95th percentile per-packet one-way delay: 92.065 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 159.00 Mbit/s
  95th percentile per-packet one-way delay: 70.758 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 170.52 Mbit/s
  95th percentile per-packet one-way delay: 78.222 ms
  Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2020-02-19 06:33:23
End at: 2020-02-19 06:33:53
Local clock offset: 0.279 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.43 Mbit/s
95th percentile per-packet one-way delay: 84.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.66 Mbit/s
95th percentile per-packet one-way delay: 108.445 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.60 Mbit/s
95th percentile per-packet one-way delay: 63.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.12 Mbit/s
95th percentile per-packet one-way delay: 88.011 ms
Loss rate: 0.00%
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-19 03:35:16
End at: 2020-02-19 03:35:46
Local clock offset: 0.077 ms
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 35.36 Mbit/s
  95th percentile per-packet one-way delay: 60.958 ms
  Loss rate: 0.02%
  -- Flow 1:
  Average throughput: 0.01 Mbit/s
  95th percentile per-packet one-way delay: 58.187 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 43.58 Mbit/s
  95th percentile per-packet one-way delay: 60.979 ms
  Loss rate: 0.02%
  -- Flow 3:
  Average throughput: 19.66 Mbit/s
  95th percentile per-packet one-way delay: 57.566 ms
  Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.01 Mbps)
Flow 1 egress (mean 0.01 Mbps)
Flow 2 ingress (mean 43.39 Mbps)
Flow 2 egress (mean 43.58 Mbps)
Flow 3 ingress (mean 19.66 Mbps)
Flow 3 egress (mean 19.66 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 58.19 ms)
Flow 2 (95th percentile 60.98 ms)
Flow 3 (95th percentile 57.57 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2020-02-19 04:14:11
End at: 2020-02-19 04:14:42
Local clock offset: -0.089 ms
Remote clock offset: -0.833 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 59.499 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 44.41 Mbit/s
95th percentile per-packet one-way delay: 59.524 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 56.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 56.312 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 44.41 Mbit/s)
- Flow 1 egress (mean 44.41 Mbit/s)
- Flow 2 ingress (mean 31.17 Mbit/s)
- Flow 2 egress (mean 31.17 Mbit/s)
- Flow 3 ingress (mean 58.25 Mbit/s)
- Flow 3 egress (mean 58.25 Mbit/s)

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

- Flow 1 (95th percentile 59.52 ms)
- Flow 2 (95th percentile 56.34 ms)
- Flow 3 (95th percentile 56.31 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2020-02-19 04:53:16
End at: 2020-02-19 04:53:46
Local clock offset: -0.181 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 107.75 Mbit/s
  95th percentile per-packet one-way delay: 60.931 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 59.72 Mbit/s
  95th percentile per-packet one-way delay: 60.925 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 52.92 Mbit/s
  95th percentile per-packet one-way delay: 60.951 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 39.29 Mbit/s
  95th percentile per-packet one-way delay: 57.627 ms
  Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

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

- **Flow 1 Ingress (mean 59.72 Mbit/s)**
- **Flow 1 Egress (mean 59.72 Mbit/s)**
- **Flow 2 Ingress (mean 52.92 Mbit/s)**
- **Flow 2 Egress (mean 52.92 Mbit/s)**
- **Flow 3 Ingress (mean 39.29 Mbit/s)**
- **Flow 3 Egress (mean 39.29 Mbit/s)**
Run 4: Statistics of QUIC Cubic

Start at: 2020-02-19 05:32:06
End at: 2020-02-19 05:32:36
Local clock offset: 0.253 ms
Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.02 Mbit/s
  95th percentile per-packet one-way delay: 56.808 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 57.23 Mbit/s
  95th percentile per-packet one-way delay: 56.730 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 31.12 Mbit/s
  95th percentile per-packet one-way delay: 56.844 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 40.16 Mbit/s
  95th percentile per-packet one-way delay: 56.838 ms
  Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

Legend:
- **Flow 1 ingress (mean 57.23 Mbit/s)**
- **Flow 1 egress (mean 57.23 Mbit/s)**
- **Flow 2 ingress (mean 31.12 Mbit/s)**
- **Flow 2 egress (mean 31.12 Mbit/s)**
- **Flow 3 ingress (mean 40.16 Mbit/s)**
- **Flow 3 egress (mean 40.16 Mbit/s)**

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

Legend:
- **Flow 1 (95th percentile 56.73 ms)**
- **Flow 2 (95th percentile 56.84 ms)**
- **Flow 3 (95th percentile 56.84 ms)**
Run 5: Statistics of QUIC Cubic

Start at: 2020-02-19 06:10:42
End at: 2020-02-19 06:11:12
Local clock offset: -0.124 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.87 Mbit/s
95th percentile per-packet one-way delay: 60.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 57.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 57.66 Mbit/s
95th percentile per-packet one-way delay: 56.989 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 60.297 ms
Loss rate: 0.03%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2020-02-19 03:43:17
End at: 2020-02-19 03:43:47
Local clock offset: 0.54 ms
Remote clock offset: 0.419 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 61.319 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 61.333 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.852 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.616 ms
  Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

![Graph of Throughput vs Time](image1)

- 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)

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

- Flow 1 (95th percentile 61.33 ms)
- Flow 2 (95th percentile 57.85 ms)
- Flow 3 (95th percentile 57.62 ms)
Run 2: Statistics of SCReAM

Start at: 2020-02-19 04:22:21
End at: 2020-02-19 04:22:51
Local clock offset: 0.235 ms
Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 57.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.617 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.605 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2020-02-19 05:01:18
End at: 2020-02-19 05:01:49
Local clock offset: -0.143 ms
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.408 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.249 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2020-02-19 05:40:02
End at: 2020-02-19 05:40:32
Local clock offset: 0.266 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 59.775 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 56.571 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 56.603 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 59.822 ms
  Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 56.57 ms)  Flow 2 (95th percentile 56.60 ms)  Flow 3 (95th percentile 59.82 ms)
Run 5: Statistics of SCReAM

Start at: 2020-02-19 06:18:52
End at: 2020-02-19 06:19:22
Local clock offset: -0.087 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 57.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.453 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.399 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.418 ms
Loss rate: 0.00%
Run 1: Statistics of Sprout

Start at: 2020-02-19 03:48:11
End at: 2020-02-19 03:48:41
Local clock offset: 0.624 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.82 Mbit/s
  95th percentile per-packet one-way delay: 60.467 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.98 Mbit/s
  95th percentile per-packet one-way delay: 57.498 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 6.89 Mbit/s
  95th percentile per-packet one-way delay: 60.949 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 6.65 Mbit/s
  95th percentile per-packet one-way delay: 60.506 ms
  Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph of Throughput (Mbps) vs. Time (s) for different flows.]

Flow 1 ingress (mean 7.98 Mbps)  
Flow 1 egress (mean 7.98 Mbps)  
Flow 2 ingress (mean 6.89 Mbps)  
Flow 2 egress (mean 6.89 Mbps)  
Flow 3 ingress (mean 6.65 Mbps)  
Flow 3 egress (mean 6.65 Mbps)

![Graph of Per packet one way delay (ms) vs. Time (s) for different flows.]

Flow 1 (95th percentile 57.50 ms)  
Flow 2 (95th percentile 60.95 ms)  
Flow 3 (95th percentile 60.51 ms)
Run 2: Statistics of Sprout

Start at: 2020-02-19 04:27:11
End at: 2020-02-19 04:27:41
Local clock offset: -0.168 ms
Remote clock offset: 0.408 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 61.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 57.774 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 61.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 61.467 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 7.07 Mbps)
  - Flow 1 egress (mean 7.07 Mbps)
  - Flow 2 ingress (mean 6.88 Mbps)
  - Flow 2 egress (mean 6.88 Mbps)
  - Flow 3 ingress (mean 6.66 Mbps)
  - Flow 3 egress (mean 6.66 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 57.77 ms)
  - Flow 2 (95th percentile 61.60 ms)
  - Flow 3 (95th percentile 61.47 ms)
Run 3: Statistics of Sprout

Start at: 2020-02-19 05:06:09
End at: 2020-02-19 05:06:39
Local clock offset: -0.471 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 60.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 58.150 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 61.244 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 57.717 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2020-02-19 05:44:46
End at: 2020-02-19 05:45:16
Local clock offset: -0.079 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2020-02-19 09:49:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 60.868 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 61.152 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 57.184 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 56.981 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

[Graph showing throughput over time for different flows]

[Graph showing per-packet round-trip delay over time for different flows]
Run 5: Statistics of Sprout

Start at: 2020-02-19 06:23:42
End at: 2020-02-19 06:24:12
Local clock offset: 0.248 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2020-02-19 09:49:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.17 Mbit/s
  95th percentile per-packet one-way delay: 57.521 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.01 Mbit/s
  95th percentile per-packet one-way delay: 57.599 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.02 Mbit/s
  95th percentile per-packet one-way delay: 57.180 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.57 Mbit/s
  95th percentile per-packet one-way delay: 57.700 ms
  Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2020-02-19 03:56:16  
End at: 2020-02-19 03:56:46  
Local clock offset: -0.3 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2020-02-19 10:00:30  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 385.48 Mbit/s  
95th percentile per-packet one-way delay: 71.523 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 204.10 Mbit/s  
95th percentile per-packet one-way delay: 70.160 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 187.00 Mbit/s  
95th percentile per-packet one-way delay: 74.659 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 171.03 Mbit/s  
95th percentile per-packet one-way delay: 69.826 ms  
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2020-02-19 04:35:18
End at: 2020-02-19 04:35:48
Local clock offset: -0.141 ms
Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2020-02-19 10:01:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 392.36 Mbit/s
  95th percentile per-packet one-way delay: 70.522 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 207.00 Mbit/s
  95th percentile per-packet one-way delay: 69.704 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 191.42 Mbit/s
  95th percentile per-packet one-way delay: 71.028 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 174.40 Mbit/s
  95th percentile per-packet one-way delay: 72.869 ms
  Loss rate: 0.01%
Run 2: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress** (mean 207.12 Mbit/s)
- **Flow 1 egress** (mean 207.00 Mbit/s)
- **Flow 2 ingress** (mean 191.42 Mbit/s)
- **Flow 2 egress** (mean 191.42 Mbit/s)
- **Flow 3 ingress** (mean 174.45 Mbit/s)
- **Flow 3 egress** (mean 174.40 Mbit/s)

![Graph showing packet delay distribution.]

- **Flow 1** (95th percentile 69.70 ms)
- **Flow 2** (95th percentile 71.03 ms)
- **Flow 3** (95th percentile 72.87 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2020-02-19 05:14:09
End at: 2020-02-19 05:14:39
Local clock offset: -0.078 ms
Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2020-02-19 10:01:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 375.39 Mbit/s
  95th percentile per-packet one-way delay: 67.527 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 199.71 Mbit/s
  95th percentile per-packet one-way delay: 66.316 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 181.66 Mbit/s
  95th percentile per-packet one-way delay: 67.688 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 165.32 Mbit/s
  95th percentile per-packet one-way delay: 70.825 ms
  Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 199.70 Mbps)
Flow 1 egress (mean 199.71 Mbps)
Flow 2 ingress (mean 181.66 Mbps)
Flow 2 egress (mean 181.66 Mbps)
Flow 3 ingress (mean 165.32 Mbps)
Flow 3 egress (mean 165.32 Mbps)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 66.32 ms)
Flow 2 (95th percentile 67.69 ms)
Flow 3 (95th percentile 70.83 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2020-02-19 05:52:48
End at: 2020-02-19 05:53:18
Local clock offset: -0.44 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2020-02-19 10:01:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 404.88 Mbit/s
  95th percentile per-packet one-way delay: 69.452 ms
  Loss rate: 0.03%

-- Flow 1:
  Average throughput: 218.85 Mbit/s
  95th percentile per-packet one-way delay: 64.142 ms
  Loss rate: 0.02%

-- Flow 2:
  Average throughput: 191.18 Mbit/s
  95th percentile per-packet one-way delay: 71.570 ms
  Loss rate: 0.02%

-- Flow 3:
  Average throughput: 177.17 Mbit/s
  95th percentile per-packet one-way delay: 73.332 ms
  Loss rate: 0.07%
Run 4: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 218.90 Mbit/s)**
- **Flow 1 egress (mean 218.85 Mbit/s)**
- **Flow 2 ingress (mean 191.19 Mbit/s)**
- **Flow 2 egress (mean 191.18 Mbit/s)**
- **Flow 3 ingress (mean 177.31 Mbit/s)**
- **Flow 3 egress (mean 177.17 Mbit/s)**

![Graph 2: Per-packet R-Max Delay vs Time](image2)

- **Flow 1 (95th percentile 64.14 ms)**
- **Flow 2 (95th percentile 71.57 ms)**
- **Flow 3 (95th percentile 73.33 ms)**
Run 5: Statistics of TaoVA-100x

Start at: 2020-02-19 06:31:32
End at: 2020-02-19 06:32:02
Local clock offset: -0.066 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2020-02-19 10:01:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 381.60 Mbit/s
  95th percentile per-packet one-way delay: 73.337 ms
  Loss rate: 0.00%
  -- Flow 1:
    Average throughput: 196.17 Mbit/s
    95th percentile per-packet one-way delay: 71.399 ms
    Loss rate: 0.00%
  -- Flow 2:
    Average throughput: 178.57 Mbit/s
    95th percentile per-packet one-way delay: 76.668 ms
    Loss rate: 0.01%
  -- Flow 3:
    Average throughput: 200.49 Mbit/s
    95th percentile per-packet one-way delay: 67.453 ms
    Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2020-02-19 03:39:53
End at: 2020-02-19 03:40:23
Local clock offset: 0.501 ms
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2020-02-19 10:01:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.30 Mbit/s
95th percentile per-packet one-way delay: 63.532 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 354.98 Mbit/s
95th percentile per-packet one-way delay: 64.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.01 Mbit/s
95th percentile per-packet one-way delay: 61.240 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 230.46 Mbit/s
95th percentile per-packet one-way delay: 63.291 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

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

- **Flow 1 Ingress** (mean 354.98 Mbit/s)
- **Flow 1 Egress** (mean 354.98 Mbit/s)
- **Flow 2 Ingress** (mean 229.01 Mbit/s)
- **Flow 2 Egress** (mean 229.01 Mbit/s)
- **Flow 3 Ingress** (mean 230.46 Mbit/s)
- **Flow 3 Egress** (mean 230.46 Mbit/s)

![Graph 2: Round Trip Time vs. Time](image2)

- **Flow 1 95th Percentile** (64.39 ms)
- **Flow 2 95th Percentile** (61.24 ms)
- **Flow 3 95th Percentile** (63.29 ms)
Run 2: Statistics of TCP Vegas

Start at: 2020-02-19 04:18:52  
End at: 2020-02-19 04:19:22  
Local clock offset: -0.101 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2020-02-19 10:06:35  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 657.08 Mbit/s
  95th percentile per-packet one-way delay: 104.868 ms
  Loss rate: 0.06%

-- Flow 1:
  Average throughput: 318.22 Mbit/s
  95th percentile per-packet one-way delay: 83.246 ms
  Loss rate: 0.01%

-- Flow 2:
  Average throughput: 398.22 Mbit/s
  95th percentile per-packet one-way delay: 125.184 ms
  Loss rate: 0.14%

-- Flow 3:
  Average throughput: 221.99 Mbit/s
  95th percentile per-packet one-way delay: 63.298 ms
  Loss rate: 0.01%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2020-02-19 04:57:56
End at: 2020-02-19 04:58:26
Local clock offset: 0.175 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2020-02-19 10:06:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 513.84 Mbit/s
  95th percentile per-packet one-way delay: 88.139 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 307.84 Mbit/s
  95th percentile per-packet one-way delay: 68.406 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 244.28 Mbit/s
  95th percentile per-packet one-way delay: 92.946 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 130.74 Mbit/s
  95th percentile per-packet one-way delay: 128.059 ms
  Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2020-02-19 05:36:46
End at: 2020-02-19 05:37:16
Local clock offset: -0.098 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2020-02-19 10:09:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 465.46 Mbit/s
95th percentile per-packet one-way delay: 60.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.54 Mbit/s
95th percentile per-packet one-way delay: 57.696 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 225.56 Mbit/s
95th percentile per-packet one-way delay: 61.178 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 238.00 Mbit/s
95th percentile per-packet one-way delay: 62.502 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 236.54 Mbps)
Flow 1 egress (mean 236.54 Mbps)
Flow 2 ingress (mean 225.57 Mbps)
Flow 2 egress (mean 225.56 Mbps)
Flow 3 ingress (mean 236.00 Mbps)
Flow 3 egress (mean 236.00 Mbps)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 57.70 ms)
Flow 2 (95th percentile 61.18 ms)
Flow 3 (95th percentile 62.50 ms)
Run 5: Statistics of TCP Vegas

Start at: 2020-02-19 06:15:21
End at: 2020-02-19 06:15:51
Local clock offset: 0.272 ms
Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2020-02-19 10:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 691.41 Mbit/s
95th percentile per-packet one-way delay: 112.743 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 347.54 Mbit/s
95th percentile per-packet one-way delay: 113.376 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 344.76 Mbit/s
95th percentile per-packet one-way delay: 76.598 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 343.86 Mbit/s
95th percentile per-packet one-way delay: 125.884 ms
Loss rate: 0.35%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2020-02-19 04:05:50
End at: 2020-02-19 04:06:20
Local clock offset: -0.015 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2020-02-19 10:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 183.33 Mbit/s
95th percentile per-packet one-way delay: 166.485 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 112.19 Mbit/s
95th percentile per-packet one-way delay: 186.426 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 85.65 Mbit/s
95th percentile per-packet one-way delay: 103.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 72.435 ms
Loss rate: 0.00%
Run 1: Report of Verus — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 112.80 Mbit/s)
Flow 1 egress (mean 112.19 Mbit/s)
Flow 2 ingress (mean 85.68 Mbit/s)
Flow 2 egress (mean 85.65 Mbit/s)
Flow 3 ingress (mean 44.31 Mbit/s)
Flow 3 egress (mean 44.31 Mbit/s)

Round-trip delay (ms)

Time (s)

Flow 1 (95th percentile 186.43 ms)
Flow 2 (95th percentile 103.59 ms)
Flow 3 (95th percentile 72.44 ms)
Run 2: Statistics of Verus

Start at: 2020-02-19 04:44:51
End at: 2020-02-19 04:45:21
Local clock offset: -0.19 ms
Remote clock offset: -1.213 ms

# Below is generated by plot.py at 2020-02-19 10:17:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 228.21 Mbit/s
  95th percentile per-packet one-way delay: 150.051 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 117.38 Mbit/s
  95th percentile per-packet one-way delay: 100.483 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 144.10 Mbit/s
  95th percentile per-packet one-way delay: 182.001 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 48.76 Mbit/s
  95th percentile per-packet one-way delay: 97.096 ms
  Loss rate: 0.04%
Run 2: Report of Verus — Data Link

![Graph showing throughput and delay over time for Run 2 with different flow types and their respective ingress and egress rates and delays.]

- Flow 1 ingress (mean 117.37 Mbit/s)
- Flow 1 egress (mean 117.38 Mbit/s)
- Flow 2 ingress (mean 144.63 Mbit/s)
- Flow 2 egress (mean 144.10 Mbit/s)
- Flow 3 ingress (mean 48.78 Mbit/s)
- Flow 3 egress (mean 48.76 Mbit/s)

![Graph showing per-packet delay over time for Run 2 with different flow types and their respective 95th percentile delays.]

- Flow 1 (95th percentile 100.48 ms)
- Flow 2 (95th percentile 182.00 ms)
- Flow 3 (95th percentile 97.10 ms)
Run 3: Statistics of Verus

Start at: 2020-02-19 05:23:40
End at: 2020-02-19 05:24:10
Local clock offset: -0.08 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2020-02-19 10:17:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 197.75 Mbit/s
  95th percentile per-packet one-way delay: 144.474 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 147.55 Mbit/s
  95th percentile per-packet one-way delay: 150.260 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 60.05 Mbit/s
  95th percentile per-packet one-way delay: 68.162 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 31.82 Mbit/s
  95th percentile per-packet one-way delay: 66.055 ms
  Loss rate: 0.00%
Run 3: Report of Verus — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 147.74 Mbps)
- Flow 1 egress (mean 147.55 Mbps)
- Flow 2 ingress (mean 60.08 Mbps)
- Flow 2 egress (mean 60.05 Mbps)
- Flow 3 ingress (mean 31.83 Mbps)
- Flow 3 egress (mean 31.82 Mbps)

**Per-packet round trip time (ms):**
- Flow 1 (95th percentile 150.26 ms)
- Flow 2 (95th percentile 68.16 ms)
- Flow 3 (95th percentile 66.06 ms)
Run 4: Statistics of Verus

Start at: 2020-02-19 06:02:19
End at: 2020-02-19 06:02:49
Local clock offset: -0.066 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2020-02-19 10:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 220.55 Mbit/s
95th percentile per-packet one-way delay: 225.621 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 95.12 Mbit/s
95th percentile per-packet one-way delay: 116.458 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 175.39 Mbit/s
95th percentile per-packet one-way delay: 252.098 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 27.12 Mbit/s
95th percentile per-packet one-way delay: 61.238 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 95.24 Mbps)
- Flow 1 egress (mean 95.12 Mbps)
- Flow 2 ingress (mean 180.70 Mbps)
- Flow 2 egress (mean 175.39 Mbps)
- Flow 3 ingress (mean 27.12 Mbps)
- Flow 3 egress (mean 27.12 Mbps)

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

- Flow 1 (95th percentile 116.46 ms)
- Flow 2 (95th percentile 252.10 ms)
- Flow 3 (95th percentile 61.24 ms)
Run 5: Statistics of Verus

Start at: 2020-02-19 06:41:02  
End at: 2020-02-19 06:41:32  
Local clock offset: ~0.094 ms  
Remote clock offset: 0.177 ms

# Below is generated by plot.py at 2020-02-19 10:17:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 229.37 Mbit/s  
95th percentile per-packet one-way delay: 176.432 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 129.07 Mbit/s  
95th percentile per-packet one-way delay: 216.389 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 122.73 Mbit/s  
95th percentile per-packet one-way delay: 153.626 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 58.27 Mbit/s  
95th percentile per-packet one-way delay: 75.020 ms  
Loss rate: 0.10%
Run 5: Report of Verus — Data Link

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

- **Flow 1 ingress** (mean 130.98 Mbit/s)
- **Flow 1 egress** (mean 129.07 Mbit/s)
- **Flow 2 ingress** (mean 122.36 Mbit/s)
- **Flow 2 egress** (mean 122.73 Mbit/s)
- **Flow 3 ingress** (mean 58.34 Mbit/s)
- **Flow 3 egress** (mean 58.27 Mbit/s)

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

- Flow 1 (95th percentile 216.39 ms)
- Flow 2 (95th percentile 153.63 ms)
- Flow 3 (95th percentile 75.02 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2020-02-19 04:07:21
End at: 2020-02-19 04:07:51
Local clock offset: -0.059 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2020-02-19 10:17:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 403.36 Mbit/s
  95th percentile per-packet one-way delay: 64.686 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 213.82 Mbit/s
  95th percentile per-packet one-way delay: 70.498 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 200.32 Mbit/s
  95th percentile per-packet one-way delay: 59.323 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 170.73 Mbit/s
  95th percentile per-packet one-way delay: 86.308 ms
  Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

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

Flow 1 ingress (mean 213.82 Mbps)  
Flow 1 egress (mean 213.82 Mbps)  
Flow 2 ingress (mean 200.31 Mbps)  
Flow 2 egress (mean 200.32 Mbps)  
Flow 3 ingress (mean 170.71 Mbps)  
Flow 3 egress (mean 170.73 Mbps)

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Flow 1 (95th percentile 70.50 ms)  
Flow 2 (95th percentile 59.32 ms)  
Flow 3 (95th percentile 86.31 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2020-02-19 04:46:27
End at: 2020-02-19 04:46:57
Local clock offset: -0.207 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2020-02-19 10:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 379.97 Mbit/s
95th percentile per-packet one-way delay: 112.235 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 212.35 Mbit/s
95th percentile per-packet one-way delay: 161.234 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 176.63 Mbit/s
95th percentile per-packet one-way delay: 59.402 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.29 Mbit/s
95th percentile per-packet one-way delay: 84.871 ms
Loss rate: 0.01%
Run 2: Report of PCC-Vivace — Data Link

![-throughput graph]

Flow 1 ingress (mean 212.36 Mbit/s)
Flow 1 egress (mean 212.35 Mbit/s)
Flow 2 ingress (mean 176.63 Mbit/s)
Flow 2 egress (mean 176.63 Mbit/s)
Flow 3 ingress (mean 152.28 Mbit/s)
Flow 3 egress (mean 152.29 Mbit/s)

![-delay graph]

Flow 1 (95th percentile 161.23 ms)
Flow 2 (95th percentile 59.40 ms)
Flow 3 (95th percentile 84.87 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2020-02-19 05:25:13
End at: 2020-02-19 05:25:43
Local clock offset: 0.255 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2020-02-19 10:18:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 412.19 Mbit/s
95th percentile per-packet one-way delay: 58.946 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.52 Mbit/s
95th percentile per-packet one-way delay: 58.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 210.48 Mbit/s
95th percentile per-packet one-way delay: 59.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.66 Mbit/s
95th percentile per-packet one-way delay: 62.016 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

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

Legend:
- Flow 1 ingress (mean 217.52 Mbit/s)
- Flow 1 egress (mean 217.52 Mbit/s)
- Flow 2 ingress (mean 210.42 Mbit/s)
- Flow 2 egress (mean 210.48 Mbit/s)
- Flow 3 ingress (mean 165.63 Mbit/s)
- Flow 3 egress (mean 165.66 Mbit/s)

Per-packet one-way delay (ms)
- Flow 1 (95th percentile 58.12 ms)
- Flow 2 (95th percentile 59.28 ms)
- Flow 3 (95th percentile 62.02 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2020-02-19 06:03:54
End at: 2020-02-19 06:04:24
Local clock offset: -0.081 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-02-19 10:18:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 402.84 Mbit/s
  95th percentile per-packet one-way delay: 68.901 ms
  Loss rate: 0.01%
  -- Flow 1:
    Average throughput: 216.43 Mbit/s
    95th percentile per-packet one-way delay: 67.360 ms
    Loss rate: 0.00%
  -- Flow 2:
    Average throughput: 199.92 Mbit/s
    95th percentile per-packet one-way delay: 63.134 ms
    Loss rate: 0.00%
  -- Flow 3:
    Average throughput: 163.30 Mbit/s
    95th percentile per-packet one-way delay: 113.487 ms
    Loss rate: 0.06%
Run 4: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps)]

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

Start at: 2020-02-19 06:42:38
End at: 2020-02-19 06:43:08
Local clock offset: -0.471 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2020-02-19 10:18:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.17 Mbit/s
95th percentile per-packet one-way delay: 156.567 ms
Loss rate: 1.58%

-- Flow 1:
Average throughput: 164.44 Mbit/s
95th percentile per-packet one-way delay: 175.994 ms
Loss rate: 3.29%

-- Flow 2:
Average throughput: 208.32 Mbit/s
95th percentile per-packet one-way delay: 190.444 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 140.03 Mbit/s
95th percentile per-packet one-way delay: 67.137 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows.]
Run 1: Statistics of WebRTC media

Start at: 2020-02-19 04:01:14
End at: 2020-02-19 04:01:44
Local clock offset: -0.023 ms
Remote clock offset: -0.018 ms
Run 1: Report of WebRTC media — Data Link

Graph 1: Throughput (Mbps) vs Time (s)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
Run 2: Statistics of WebRTC media

Start at: 2020-02-19 04:40:15
End at: 2020-02-19 04:40:45
Local clock offset: 0.153 ms
Remote clock offset: 0.71 ms
Run 2: Report of WebRTC media — Data Link

![Graphs showing throughput and per-packet one-way delay for different flows.](image-url)
Run 3: Statistics of WebRTC media

Start at: 2020-02-19 05:19:04
End at: 2020-02-19 05:19:34
Local clock offset: -0.464 ms
Remote clock offset: -0.016 ms
Run 3: Report of WebRTC media — Data Link

![Graph of WebRTC media data link]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 0.80 Mbps)
  - Flow 1 egress (mean 0.80 Mbps)
  - Flow 2 ingress (mean 0.79 Mbps)
  - Flow 2 egress (mean 0.79 Mbps)
  - Flow 3 ingress (mean 0.82 Mbps)
  - Flow 3 egress (mean 0.82 Mbps)

- **Per packet one way delay (ms)**
  - Flow 1 (95th percentile 57.67 ms)
  - Flow 2 (95th percentile 60.79 ms)
  - Flow 3 (95th percentile 57.30 ms)
Run 4: Statistics of WebRTC media

Start at: 2020-02-19 05:57:45
End at: 2020-02-19 05:58:15
Local clock offset: ~0.115 ms
Remote clock offset: 0.611 ms
Run 4: Report of WebRTC media — Data Link

![Graph showing WebRTC media data link]

- Flow 1 ingress (mean 0.83 Mbit/s)
- Flow 1 egress (mean 0.83 Mbit/s)
- Flow 2 ingress (mean 0.90 Mbit/s)
- Flow 2 egress (mean 0.90 Mbit/s)
- Flow 3 ingress (mean 0.06 Mbit/s)
- Flow 3 egress (mean 0.06 Mbit/s)

![Graph showing packet delay]

- Flow 1 (95th percentile 61.07 ms)
- Flow 2 (95th percentile 57.99 ms)
- Flow 3 (95th percentile 60.98 ms)
Run 5: Statistics of WebRTC media

Start at: 2020-02-19 06:36:27
End at: 2020-02-19 06:36:57
Local clock offset: -0.46 ms
Remote clock offset: 0.196 ms
Run 5: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 0.41 Mbit/s)
- Flow 1 egress (mean 0.41 Mbit/s)
- Flow 2 ingress (mean 0.79 Mbit/s)
- Flow 2 egress (mean 0.79 Mbit/s)
- Flow 3 ingress (mean 0.79 Mbit/s)
- Flow 3 egress (mean 0.79 Mbit/s)