Pantheon Report

Generated at 2020-04-17 16:48:12 (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 5.0.0-1031-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 @ de42328552b3776a75a932a94dfaf7d722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7e1a7e63a3d4519
third_party/fillp-sheep @ 0e5bb722943babacd2b090d2c64fd45e12e923f9
third_party/genericCC @ d0153f8e694aa89e93b032143cedbfe858e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc44fe0edbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906e6bb7c3cf
third_party/muses @ 5ce721187ad823da2095537730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61dbee92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866df58d27af942717625ae3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d18b623c091a55f8c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f613e88dc08f9b24eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cf44
third_party/scream-reproduce @ f099118d1421aa313bf10f964974a1da3b4b2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f9a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ 0e5bb722943babacd2b090d2c64fd45e12e923f9
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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<td>201.97</td>
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<td>365.99</td>
<td>300.24</td>
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Run 1: Statistics of TCP BBR

Start at: 2020-04-17 10:45:37
End at: 2020-04-17 10:46:07
Local clock offset: -0.131 ms
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 972.55 Mbit/s
95th percentile per-packet one-way delay: 227.032 ms
Loss rate: 8.70%
-- Flow 1:
Average throughput: 502.67 Mbit/s
95th percentile per-packet one-way delay: 206.454 ms
Loss rate: 4.92%
-- Flow 2:
Average throughput: 483.43 Mbit/s
95th percentile per-packet one-way delay: 244.586 ms
Loss rate: 14.15%
-- Flow 3:
Average throughput: 445.79 Mbit/s
95th percentile per-packet one-way delay: 249.135 ms
Loss rate: 8.40%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2020-04-17 11:25:36
End at: 2020-04-17 11:26:06
Local clock offset: 0.256 ms
Remote clock offset: -0.902 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 841.39 Mbit/s
95th percentile per-packet one-way delay: 221.014 ms
Loss rate: 3.74%
-- Flow 1:
Average throughput: 485.00 Mbit/s
95th percentile per-packet one-way delay: 218.505 ms
Loss rate: 5.14%
-- Flow 2:
Average throughput: 335.42 Mbit/s
95th percentile per-packet one-way delay: 229.286 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 399.59 Mbit/s
95th percentile per-packet one-way delay: 211.735 ms
Loss rate: 2.60%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2020-04-17 12:05:21
End at: 2020-04-17 12:05:51
Local clock offset: -0.077 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 857.24 Mbit/s
95th percentile per-packet one-way delay: 215.339 ms
Loss rate: 4.11%
-- Flow 1:
Average throughput: 429.66 Mbit/s
95th percentile per-packet one-way delay: 215.635 ms
Loss rate: 3.18%
-- Flow 2:
Average throughput: 455.59 Mbit/s
95th percentile per-packet one-way delay: 210.879 ms
Loss rate: 5.38%
-- Flow 3:
Average throughput: 373.61 Mbit/s
95th percentile per-packet one-way delay: 250.106 ms
Loss rate: 4.14%
Run 3: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 443.77 Mbps)
- Flow 1 egress (mean 429.66 Mbps)
- Flow 2 ingress (mean 481.53 Mbps)
- Flow 2 egress (mean 455.59 Mbps)
- Flow 3 ingress (mean 389.63 Mbps)
- Flow 3 egress (mean 373.61 Mbps)

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

- Flow 1 (95th percentile 215.63 ms)
- Flow 2 (95th percentile 210.88 ms)
- Flow 3 (95th percentile 250.11 ms)
Run 4: Statistics of TCP BBR

Start at: 2020-04-17 12:44:45
End at: 2020-04-17 12:45:15
Local clock offset: 0.263 ms
Remote clock offset: -1.337 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 912.23 Mbit/s
  95th percentile per-packet one-way delay: 221.683 ms
  Loss rate: 5.04%
-- Flow 1:
  Average throughput: 505.65 Mbit/s
  95th percentile per-packet one-way delay: 204.302 ms
  Loss rate: 4.87%
-- Flow 2:
  Average throughput: 417.74 Mbit/s
  95th percentile per-packet one-way delay: 231.094 ms
  Loss rate: 5.79%
-- Flow 3:
  Average throughput: 387.10 Mbit/s
  95th percentile per-packet one-way delay: 246.688 ms
  Loss rate: 4.06%
Run 4: Report of TCP BBR — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress (mean 531.51 Mbps)**
- **Flow 1 egress (mean 505.65 Mbps)**
- **Flow 2 ingress (mean 443.40 Mbps)**
- **Flow 2 egress (mean 417.74 Mbps)**
- **Flow 3 ingress (mean 403.52 Mbps)**
- **Flow 3 egress (mean 387.10 Mbps)**

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

- **Flow 1 (95th percentile 204.30 ms)**
- **Flow 2 (95th percentile 231.09 ms)**
- **Flow 3 (95th percentile 246.69 ms)**
Run 5: Statistics of TCP BBR

Start at: 2020-04-17 13:24:11
End at: 2020-04-17 13:24:41
Local clock offset: 0.02 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 876.11 Mbit/s
   95th percentile per-packet one-way delay: 217.811 ms
   Loss rate: 3.38%
-- Flow 1:
   Average throughput: 478.19 Mbit/s
   95th percentile per-packet one-way delay: 211.474 ms
   Loss rate: 3.46%
-- Flow 2:
   Average throughput: 443.40 Mbit/s
   95th percentile per-packet one-way delay: 223.520 ms
   Loss rate: 3.98%
-- Flow 3:
   Average throughput: 308.99 Mbit/s
   95th percentile per-packet one-way delay: 234.870 ms
   Loss rate: 1.21%
Run 5: Report of TCP BBR — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one-way delay (ms)
Run 1: Statistics of Copa

Start at: 2020-04-17 10:43:43
End at: 2020-04-17 10:44:13
Local clock offset: -0.465 ms
Remote clock offset: 0.522 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 439.38 Mbit/s
  95th percentile per-packet one-way delay: 94.792 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 225.57 Mbit/s
  95th percentile per-packet one-way delay: 91.830 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 229.57 Mbit/s
  95th percentile per-packet one-way delay: 80.435 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 183.37 Mbit/s
  95th percentile per-packet one-way delay: 145.109 ms
  Loss rate: 0.00%
Run 1: Report of Copa — Data Link

![Throughput over Time Graph]

- Flow 1 ingress (mean 225.93 Mbit/s)
- Flow 1 egress (mean 225.57 Mbit/s)
- Flow 2 ingress (mean 229.57 Mbit/s)
- Flow 2 egress (mean 229.57 Mbit/s)
- Flow 3 ingress (mean 183.37 Mbit/s)
- Flow 3 egress (mean 183.37 Mbit/s)

![Packet Delay Over Time Graph]

- Flow 1 (95th percentile 91.83 ms)
- Flow 2 (95th percentile 80.44 ms)
- Flow 3 (95th percentile 145.11 ms)
Run 2: Statistics of Copa

Start at: 2020-04-17 11:23:40
End at: 2020-04-17 11:24:10
Local clock offset: 0.209 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2020-04-17 14:12:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 444.05 Mbit/s
95th percentile per-packet one-way delay: 93.850 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 243.87 Mbit/s
95th percentile per-packet one-way delay: 93.253 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.28 Mbit/s
95th percentile per-packet one-way delay: 92.214 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 189.68 Mbit/s
95th percentile per-packet one-way delay: 96.281 ms
Loss rate: 0.04%
Run 2: Report of Copa — Data Link

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

![Graph 2: Per-packet round-trip delay vs Time](image2)
Run 3: Statistics of Copa

Start at: 2020-04-17 12:03:30
End at: 2020-04-17 12:04:00
Local clock offset: -0.124 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2020-04-17 14:12:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.19 Mbit/s
95th percentile per-packet one-way delay: 100.191 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 198.85 Mbit/s
95th percentile per-packet one-way delay: 100.552 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.75 Mbit/s
95th percentile per-packet one-way delay: 103.039 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.29 Mbit/s
95th percentile per-packet one-way delay: 88.656 ms
Loss rate: 0.04%
Run 3: Report of Copa — Data Link

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

- **Throughput**: Mean values and percentile delays are indicated for each flow.
- **Delay**: 95th percentile delays are shown for each flow.
Run 4: Statistics of Copa

Start at: 2020-04-17 12:43:00
End at: 2020-04-17 12:43:30
Local clock offset: -0.065 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2020-04-17 14:21:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.95 Mbit/s
95th percentile per-packet one-way delay: 94.582 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 182.40 Mbit/s
95th percentile per-packet one-way delay: 98.645 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 165.48 Mbit/s
95th percentile per-packet one-way delay: 70.582 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 139.70 Mbit/s
95th percentile per-packet one-way delay: 104.338 ms
Loss rate: 0.12%
Run 4: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 182.41 Mbps)
- Flow 1 egress (mean 182.40 Mbps)
- Flow 2 ingress (mean 165.52 Mbps)
- Flow 2 egress (mean 165.48 Mbps)
- Flow 3 ingress (mean 139.88 Mbps)
- Flow 3 egress (mean 139.70 Mbps)

Legend for per-packet round-trip delay:
- Flow 1 (95th percentile 98.64 ms)
- Flow 2 (95th percentile 70.58 ms)
- Flow 3 (95th percentile 104.34 ms)
Run 5: Statistics of Copa

End at: 2020-04-17 13:22:52
Local clock offset: 0.319 ms
Remote clock offset: -0.58 ms

# Below is generated by plot.py at 2020-04-17 14:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.59 Mbit/s
95th percentile per-packet one-way delay: 93.472 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 201.39 Mbit/s
95th percentile per-packet one-way delay: 85.678 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 185.79 Mbit/s
95th percentile per-packet one-way delay: 96.568 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 188.17 Mbit/s
95th percentile per-packet one-way delay: 100.967 ms
Loss rate: 0.09%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 201.56 Mbps)
- Flow 1 egress (mean 201.39 Mbps)
- Flow 2 ingress (mean 185.66 Mbps)
- Flow 2 egress (mean 185.79 Mbps)
- Flow 3 ingress (mean 188.37 Mbps)
- Flow 3 egress (mean 188.17 Mbps)

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

- Flow 1 (95th percentile 85.68 ms)
- Flow 2 (95th percentile 96.57 ms)
- Flow 3 (95th percentile 100.97 ms)
Run 1: Statistics of TCP Cubic

Start at: 2020-04-17 10:50:04
End at: 2020-04-17 10:50:34
Local clock offset: -0.093 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2020-04-17 14:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 652.54 Mbit/s
95th percentile per-packet one-way delay: 213.118 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 374.40 Mbit/s
95th percentile per-packet one-way delay: 216.414 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 324.76 Mbit/s
95th percentile per-packet one-way delay: 215.623 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 186.09 Mbit/s
95th percentile per-packet one-way delay: 164.623 ms
Loss rate: 2.26%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2020-04-17 11:29:58
End at: 2020-04-17 11:30:28
Local clock offset: -0.124 ms
Remote clock offset: 0.696 ms

# Below is generated by plot.py at 2020-04-17 14:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 650.86 Mbit/s
95th percentile per-packet one-way delay: 194.272 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 394.63 Mbit/s
95th percentile per-packet one-way delay: 175.840 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 294.49 Mbit/s
95th percentile per-packet one-way delay: 208.807 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 180.64 Mbit/s
95th percentile per-packet one-way delay: 184.476 ms
Loss rate: 2.89%
Run 2: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 396.46 Mbit/s)
- Flow 1 egress (mean 394.63 Mbit/s)
- Flow 2 ingress (mean 296.74 Mbit/s)
- Flow 2 egress (mean 294.49 Mbit/s)
- Flow 3 ingress (mean 186.64 Mbit/s)
- Flow 3 egress (mean 180.64 Mbit/s)

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

- Flow 1 (95th percentile 175.84 ms)
- Flow 2 (95th percentile 208.81 ms)
- Flow 3 (95th percentile 184.48 ms)
Run 3: Statistics of TCP Cubic

Start at: 2020-04-17 12:09:44
End at: 2020-04-17 12:10:14
Local clock offset: -0.083 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2020-04-17 14:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 618.60 Mbit/s
95th percentile per-packet one-way delay: 209.264 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 336.65 Mbit/s
95th percentile per-packet one-way delay: 201.454 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 321.48 Mbit/s
95th percentile per-packet one-way delay: 216.556 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 204.08 Mbit/s
95th percentile per-packet one-way delay: 177.332 ms
Loss rate: 2.44%
Run 3: Report of TCP Cubic — Data Link

![Graph of Throughput vs Time]

- Flow 1 ingress (mean 338.04 Mbit/s)
- Flow 1 egress (mean 336.65 Mbit/s)
- Flow 2 ingress (mean 323.81 Mbit/s)
- Flow 2 egress (mean 321.48 Mbit/s)
- Flow 3 ingress (mean 209.21 Mbit/s)
- Flow 3 egress (mean 204.08 Mbit/s)

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

- Flow 1 (95th percentile 201.45 ms)
- Flow 2 (95th percentile 216.56 ms)
- Flow 3 (95th percentile 177.33 ms)
Run 4: Statistics of TCP Cubic

Start at: 2020-04-17 12:49:10
End at: 2020-04-17 12:49:40
Local clock offset: -0.057 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2020-04-17 14:24:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 607.05 Mbit/s
95th percentile per-packet one-way delay: 203.772 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 357.40 Mbit/s
95th percentile per-packet one-way delay: 194.197 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 280.27 Mbit/s
95th percentile per-packet one-way delay: 220.395 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 189.71 Mbit/s
95th percentile per-packet one-way delay: 191.369 ms
Loss rate: 2.95%
Run 4: Report of TCP Cubic — Data Link

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

Throughput (Mbps)

- **Flow 1 ingress (mean 359.00 Mbps)**
- **Flow 1 egress (mean 357.40 Mbps)**
- **Flow 2 ingress (mean 282.16 Mbps)**
- **Flow 2 egress (mean 280.27 Mbps)**
- **Flow 3 ingress (mean 195.50 Mbps)**
- **Flow 3 egress (mean 189.71 Mbps)**

Packet delay (ms)

- **Flow 1 (95th percentile 194.20 ms)**
- **Flow 2 (95th percentile 220.40 ms)**
- **Flow 3 (95th percentile 191.37 ms)**
Run 5: Statistics of TCP Cubic

Start at: 2020-04-17 13:28:36
End at: 2020-04-17 13:29:06
Local clock offset: 0.011 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-04-17 14:24:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 648.32 Mbit/s
95th percentile per-packet one-way delay: 209.209 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 366.86 Mbit/s
95th percentile per-packet one-way delay: 192.850 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 280.22 Mbit/s
95th percentile per-packet one-way delay: 234.812 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 285.40 Mbit/s
95th percentile per-packet one-way delay: 211.242 ms
Loss rate: 1.27%
Run 5: Report of TCP Cubic — Data Link

![Graph 1: Throughput (Mbps)]

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

Start at: 2020-04-17 10:21:43
End at: 2020-04-17 10:22:13
Local clock offset: -0.015 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2020-04-17 14:31:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 834.99 Mbit/s
95th percentile per-packet one-way delay: 88.903 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 548.44 Mbit/s
95th percentile per-packet one-way delay: 94.843 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 317.16 Mbit/s
95th percentile per-packet one-way delay: 63.552 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 225.54 Mbit/s
95th percentile per-packet one-way delay: 62.984 ms
Loss rate: 0.00%
Run 1: Report of FillP — Data Link

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

Legend:
- Flow 1 ingress (mean 552.07 Mb/s) - Flow 1 egress (mean 548.44 Mb/s)
- Flow 2 ingress (mean 317.17 Mb/s) - Flow 2 egress (mean 317.16 Mb/s)
- Flow 3 ingress (mean 225.54 Mb/s) - Flow 3 egress (mean 225.54 Mb/s)
Run 2: Statistics of FillP

Start at: 2020-04-17 11:01:54
End at: 2020-04-17 11:02:24
Local clock offset: -0.092 ms
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2020-04-17 14:41:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 849.94 Mbit/s
  95th percentile per-packet one-way delay: 116.190 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 500.88 Mbit/s
  95th percentile per-packet one-way delay: 126.729 ms
  Loss rate: 0.82%
-- Flow 2:
  Average throughput: 387.39 Mbit/s
  95th percentile per-packet one-way delay: 67.540 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 276.99 Mbit/s
  95th percentile per-packet one-way delay: 64.375 ms
  Loss rate: 0.00%
Run 2: Report of FillP — Data Link

![Graph 1: Throughput vs Time](Graph1)

- **Flow 1 Ingress (mean 505.10 Mbit/s)**
- **Flow 1 Egress (mean 500.88 Mbit/s)**
- **Flow 2 Ingress (mean 387.41 Mbit/s)**
- **Flow 2 Egress (mean 387.39 Mbit/s)**
- **Flow 3 Ingress (mean 277.35 Mbit/s)**
- **Flow 3 Egress (mean 276.99 Mbit/s)**

![Graph 2: Per-Packet One-Way Delay vs Time](Graph2)

- **Flow 1 (95th percentile 126.73 ms)**
- **Flow 2 (95th percentile 67.54 ms)**
- **Flow 3 (95th percentile 64.38 ms)**
Run 3: Statistics of FillP

Start at: 2020-04-17 11:41:52
End at: 2020-04-17 11:42:22
Local clock offset: 0.29 ms
Remote clock offset: -1.381 ms

# Below is generated by plot.py at 2020-04-17 14:43:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 858.10 Mbit/s
95th percentile per-packet one-way delay: 89.324 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 533.90 Mbit/s
95th percentile per-packet one-way delay: 96.891 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 345.30 Mbit/s
95th percentile per-packet one-way delay: 68.238 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 283.99 Mbit/s
95th percentile per-packet one-way delay: 66.218 ms
Loss rate: 0.07%
Run 3: Report of FillP — Data Link

![Graph showing throughput and packet delay](image_url)
Run 4: Statistics of FillP

Start at: 2020-04-17 12:21:29
End at: 2020-04-17 12:21:59
Local clock offset: -0.116 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2020-04-17 14:43:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 784.20 Mbit/s
95th percentile per-packet one-way delay: 118.351 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 477.59 Mbit/s
95th percentile per-packet one-way delay: 124.463 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 323.97 Mbit/s
95th percentile per-packet one-way delay: 64.727 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 275.95 Mbit/s
95th percentile per-packet one-way delay: 69.217 ms
Loss rate: 0.00%
Run 4: Report of FillP — Data Link

![Graph of Throughput and Delay Over Time]

- **Throughput**
  - Flow 1 ingress (mean 479.84 Mbit/s)
  - Flow 1 egress (mean 477.59 Mbit/s)
  - Flow 2 ingress (mean 324.03 Mbit/s)
  - Flow 2 egress (mean 323.97 Mbit/s)
  - Flow 3 ingress (mean 275.48 Mbit/s)
  - Flow 3 egress (mean 275.95 Mbit/s)

- **Per-packet One-way Delay**
  - Flow 1 (95th percentile 124.46 ms)
  - Flow 2 (95th percentile 64.73 ms)
  - Flow 3 (95th percentile 69.22 ms)
Run 5: Statistics of FillP

Start at: 2020-04-17 13:00:45  
End at: 2020-04-17 13:01:15  
Local clock offset: -0.106 ms  
Remote clock offset: -0.336 ms

# Below is generated by plot.py at 2020-04-17 14:44:17  
# Datalink statistics

-- Total of 3 flows: 
Average throughput: 872.87 Mbit/s  
95th percentile per-packet one-way delay: 110.066 ms  
Loss rate: 1.06%

-- Flow 1: 
Average throughput: 535.36 Mbit/s  
95th percentile per-packet one-way delay: 115.578 ms  
Loss rate: 1.70%

-- Flow 2: 
Average throughput: 366.12 Mbit/s  
95th percentile per-packet one-way delay: 64.621 ms  
Loss rate: 0.00%

-- Flow 3: 
Average throughput: 282.87 Mbit/s  
95th percentile per-packet one-way delay: 65.501 ms  
Loss rate: 0.11%
Run 5: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 544.60 Mbps)
  - Flow 1 egress (mean 535.96 Mbps)
  - Flow 2 ingress (mean 366.12 Mbps)
  - Flow 2 egress (mean 366.12 Mbps)
  - Flow 3 ingress (mean 283.35 Mbps)
  - Flow 3 egress (mean 282.87 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 115.58 ms)
  - Flow 2 (95th percentile 64.62 ms)
  - Flow 3 (95th percentile 65.50 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2020-04-17 10:33:07
End at: 2020-04-17 10:33:37
Local clock offset: -0.43 ms
Remote clock offset: 1.221 ms

# Below is generated by plot.py at 2020-04-17 14:44:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 812.72 Mbit/s
  95th percentile per-packet one-way delay: 70.765 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 515.71 Mbit/s
  95th percentile per-packet one-way delay: 74.014 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 317.39 Mbit/s
  95th percentile per-packet one-way delay: 62.322 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 255.78 Mbit/s
  95th percentile per-packet one-way delay: 63.747 ms
  Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

![Graph of throughput vs time](image1)

![Graph of per-packet one-way delay vs time](image2)
Run 2: Statistics of FillP-Sheep

Start at: 2020-04-17 11:13:17
End at: 2020-04-17 11:13:47
Local clock offset: 0.275 ms
Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2020-04-17 14:44:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 779.45 Mbit/s
  95th percentile per-packet one-way delay: 90.112 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 476.97 Mbit/s
  95th percentile per-packet one-way delay: 95.653 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 325.11 Mbit/s
  95th percentile per-packet one-way delay: 63.770 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 260.88 Mbit/s
  95th percentile per-packet one-way delay: 69.242 ms
  Loss rate: 0.00%
Run 2: Report of FillP-Sheep — Data Link

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

- Flow 1 ingress (mean 477.84 Mbit/s)
- Flow 1 egress (mean 476.97 Mbit/s)
- Flow 2 ingress (mean 325.22 Mbit/s)
- Flow 2 egress (mean 325.11 Mbit/s)
- Flow 3 ingress (mean 260.36 Mbit/s)
- Flow 3 egress (mean 260.88 Mbit/s)

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

- Flow 1 (95th percentile 95.65 ms)
- Flow 2 (95th percentile 63.77 ms)
- Flow 3 (95th percentile 69.24 ms)
Run 3: Statistics of FillP-Sheep

Start at: 2020-04-17 11:53:11
End at: 2020-04-17 11:53:41
Local clock offset: 0.23 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2020-04-17 14:44:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 714.95 Mbit/s
  95th percentile per-packet one-way delay: 100.149 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 436.23 Mbit/s
  95th percentile per-packet one-way delay: 109.719 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 300.24 Mbit/s
  95th percentile per-packet one-way delay: 63.977 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 239.25 Mbit/s
  95th percentile per-packet one-way delay: 63.383 ms
  Loss rate: 0.00%
Run 3: Report of FillP-Sheep — Data Link
Run 4: Statistics of FillPr-Sheep

Start at: 2020-04-17 12:32:43
End at: 2020-04-17 12:33:13
Local clock offset: -0.083 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2020-04-17 14:49:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 759.61 Mbit/s
95th percentile per-packet one-way delay: 83.851 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 475.49 Mbit/s
95th percentile per-packet one-way delay: 90.439 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 303.39 Mbit/s
95th percentile per-packet one-way delay: 66.912 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.68 Mbit/s
95th percentile per-packet one-way delay: 63.635 ms
Loss rate: 0.00%
Run 4: Report of FillP-Sheep — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 Ingress (mean 477.60 Mbps)
  - Flow 1 Egress (mean 475.49 Mbps)
  - Flow 2 Ingress (mean 303.39 Mbps)
  - Flow 2 Egress (mean 303.39 Mbps)
  - Flow 3 Ingress (mean 247.65 Mbps)
  - Flow 3 Egress (mean 247.68 Mbps)

![Graph of One-Way Delay (ms)](image2)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 90.44 ms)
  - Flow 2 (95th percentile 66.91 ms)
  - Flow 3 (95th percentile 63.63 ms)
Run 5: Statistics of FillP-Sheep

Start at: 2020-04-17 13:12:05
End at: 2020-04-17 13:12:35
Local clock offset: 0.288 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 756.35 Mbit/s
95th percentile per-packet one-way delay: 100.269 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 465.17 Mbit/s
95th percentile per-packet one-way delay: 107.685 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 310.09 Mbit/s
95th percentile per-packet one-way delay: 64.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 257.22 Mbit/s
95th percentile per-packet one-way delay: 69.600 ms
Loss rate: 0.25%
Run 5: Report of FillP-Sheep — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 466.31 Mbps)
- Flow 1 egress (mean 465.17 Mbps)
- Flow 2 ingress (mean 310.09 Mbps)
- Flow 2 egress (mean 310.09 Mbps)
- Flow 3 ingress (mean 257.82 Mbps)
- Flow 3 egress (mean 257.22 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 107.69 ms)
- Flow 2 (95th percentile 64.02 ms)
- Flow 3 (95th percentile 69.60 ms)
Run 1: Statistics of Indigo

Start at: 2020-04-17 10:27:06
End at: 2020-04-17 10:27:36
Local clock offset: -0.078 ms
Remote clock offset: -0.778 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.52 Mbit/s
95th percentile per-packet one-way delay: 60.976 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.77 Mbit/s
95th percentile per-packet one-way delay: 62.183 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.33 Mbit/s
95th percentile per-packet one-way delay: 59.549 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 100.61 Mbit/s
95th percentile per-packet one-way delay: 60.265 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2020-04-17 11:07:13
End at: 2020-04-17 11:07:43
Local clock offset: -0.103 ms
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 361.91 Mbit/s
   95th percentile per-packet one-way delay: 71.129 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 195.81 Mbit/s
   95th percentile per-packet one-way delay: 73.422 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 174.92 Mbit/s
   95th percentile per-packet one-way delay: 67.398 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 155.29 Mbit/s
   95th percentile per-packet one-way delay: 68.966 ms
   Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

![Graph showing network performance metrics]

- **Throughput (Mbps):**
  - **Flow 1 ingress (mean 195.82 Mbps):**
  - **Flow 1 egress (mean 195.81 Mbps):**
  - **Flow 2 ingress (mean 174.93 Mbps):**
  - **Flow 2 egress (mean 174.92 Mbps):**
  - **Flow 3 ingress (mean 155.31 Mbps):**
  - **Flow 3 egress (mean 155.29 Mbps):**

- **Per-packet one way delay (ms):**
  - **Flow 1 (95th percentile 73.42 ms):**
  - **Flow 2 (95th percentile 67.40 ms):**
  - **Flow 3 (95th percentile 68.97 ms):**
Run 3: Statistics of Indigo

Start at: 2020-04-17 11:47:09
End at: 2020-04-17 11:47:39
Local clock offset: 0.249 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 379.41 Mbit/s
  95th percentile per-packet one-way delay: 76.403 ms
  Loss rate: 0.01%
  -- Flow 1:
  Average throughput: 205.97 Mbit/s
  95th percentile per-packet one-way delay: 78.045 ms
  Loss rate: 0.01%
  -- Flow 2:
  Average throughput: 183.10 Mbit/s
  95th percentile per-packet one-way delay: 76.708 ms
  Loss rate: 0.01%
  -- Flow 3:
  Average throughput: 163.69 Mbit/s
  95th percentile per-packet one-way delay: 65.285 ms
  Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2020-04-17 12:26:41
End at: 2020-04-17 12:27:11
Local clock offset: -0.013 ms
Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.09 Mbit/s
95th percentile per-packet one-way delay: 71.568 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 202.45 Mbit/s
95th percentile per-packet one-way delay: 73.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 174.59 Mbit/s
95th percentile per-packet one-way delay: 70.053 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 149.22 Mbit/s
95th percentile per-packet one-way delay: 62.406 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 202.45 Mbps)**
- **Flow 1 egress (mean 202.45 Mbps)**
- **Flow 2 ingress (mean 174.72 Mbps)**
- **Flow 2 egress (mean 174.59 Mbps)**
- **Flow 3 ingress (mean 149.23 Mbps)**
- **Flow 3 egress (mean 149.22 Mbps)**

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

- **Flow 1 (95th percentile 73.32 ms)**
- **Flow 2 (95th percentile 70.05 ms)**
- **Flow 3 (95th percentile 62.41 ms)**
Run 5: Statistics of Indigo

Start at: 2020-04-17 13:06:05
End at: 2020-04-17 13:06:35
Local clock offset: -0.089 ms
Remote clock offset: -0.246 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.45 Mbit/s
95th percentile per-packet one-way delay: 71.829 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 186.55 Mbit/s
95th percentile per-packet one-way delay: 72.289 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 179.58 Mbit/s
95th percentile per-packet one-way delay: 73.823 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.38 Mbit/s
95th percentile per-packet one-way delay: 66.299 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

![Graph showing network performance metrics over time.]

Legend:
- Blue dashed line: Flow 1 ingress (mean 186.58 Mbits/s)
- Blue solid line: Flow 1 egress (mean 186.55 Mbits/s)
- Green dashed line: Flow 2 ingress (mean 179.58 Mbits/s)
- Green solid line: Flow 2 egress (mean 179.58 Mbits/s)
- Gray dashed line: Flow 3 ingress (mean 152.38 Mbits/s)
- Gray solid line: Flow 3 egress (mean 152.38 Mbits/s)
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-17 10:23:30
End at: 2020-04-17 10:24:00
Local clock offset: 0.313 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2020-04-17 15:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 754.75 Mbit/s
95th percentile per-packet one-way delay: 74.322 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 454.88 Mbit/s
95th percentile per-packet one-way delay: 78.038 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 367.99 Mbit/s
95th percentile per-packet one-way delay: 62.529 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 270.87 Mbit/s
95th percentile per-packet one-way delay: 83.339 ms
Loss rate: 0.04%
Run 1: Report of Indigo-MusesC3 — Data Link
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-17 11:03:42
End at: 2020-04-17 11:04:12
Local clock offset: -0.076 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2020-04-17 15:05:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 752.73 Mbit/s
95th percentile per-packet one-way delay: 76.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 451.42 Mbit/s
95th percentile per-packet one-way delay: 74.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 375.18 Mbit/s
95th percentile per-packet one-way delay: 114.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 247.82 Mbit/s
95th percentile per-packet one-way delay: 69.726 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC3 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 450.77 Mbps)  —  Flow 1 egress (mean 451.42 Mbps)
Flow 2 ingress (mean 375.65 Mbps)  —  Flow 2 egress (mean 375.18 Mbps)
Flow 3 ingress (mean 246.46 Mbps)  —  Flow 3 egress (mean 247.82 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 74.57 ms)  —  Flow 2 (95th percentile 114.05 ms)  —  Flow 3 (95th percentile 69.73 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-17 11:43:40
End at: 2020-04-17 11:44:10
Local clock offset: -0.118 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2020-04-17 15:10:06
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 723.30 Mbit/s
   95th percentile per-packet one-way delay: 94.634 ms
   Loss rate: 0.01%
-- Flow 1:
   Average throughput: 420.71 Mbit/s
   95th percentile per-packet one-way delay: 94.185 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 359.99 Mbit/s
   95th percentile per-packet one-way delay: 101.369 ms
   Loss rate: 0.04%
-- Flow 3:
   Average throughput: 271.43 Mbit/s
   95th percentile per-packet one-way delay: 69.239 ms
   Loss rate: 0.00%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-04-17 12:23:15
End at: 2020-04-17 12:23:45
Local clock offset: -0.084 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2020-04-17 15:10:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 660.56 Mbit/s
  95th percentile per-packet one-way delay: 90.831 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 377.27 Mbit/s
  95th percentile per-packet one-way delay: 96.932 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 354.02 Mbit/s
  95th percentile per-packet one-way delay: 76.921 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 244.26 Mbit/s
  95th percentile per-packet one-way delay: 73.607 ms
  Loss rate: 0.10%
Run 4: Report of Indigo-MusesC3 — Data Link

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**Throughput (Mbps) vs Time (s)**

- **Flow 1 ingress (mean 377.28 Mbps)**
- **Flow 1 egress (mean 377.27 Mbps)**
- **Flow 2 ingress (mean 354.02 Mbps)**
- **Flow 2 egress (mean 354.02 Mbps)**
- **Flow 3 ingress (mean 244.54 Mbps)**
- **Flow 3 egress (mean 244.26 Mbps)**

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

- **Flow 1 (95th percentile 96.93 ms)**
- **Flow 2 (95th percentile 76.92 ms)**
- **Flow 3 (95th percentile 73.61 ms)**
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-04-17 13:02:34
End at: 2020-04-17 13:03:04
Local clock offset: -0.403 ms
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2020-04-17 15:12:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 704.48 Mbit/s
95th percentile per-packet one-way delay: 88.610 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 412.56 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 358.92 Mbit/s
95th percentile per-packet one-way delay: 92.095 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 259.54 Mbit/s
95th percentile per-packet one-way delay: 94.390 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one way delay (ms)
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-17 10:18:21
End at: 2020-04-17 10:18:51
Local clock offset: -0.366 ms
Remote clock offset: 0.136 ms
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-17 10:58:18
End at: 2020-04-17 10:58:48
Local clock offset: -0.127 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2020-04-17 15:13:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 767.50 Mbit/s
95th percentile per-packet one-way delay: 141.436 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 496.65 Mbit/s
95th percentile per-packet one-way delay: 155.471 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 379.48 Mbit/s
95th percentile per-packet one-way delay: 85.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 116.62 Mbit/s
95th percentile per-packet one-way delay: 62.140 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link

---

Throughput (Mbps):

- **Flow 1 ingress** (mean 498.14 Mbps)
- **Flow 1 egress** (mean 496.65 Mbps)
- **Flow 2 ingress** (mean 379.55 Mbps)
- **Flow 2 egress** (mean 379.48 Mbps)
- **Flow 3 ingress** (mean 116.54 Mbps)
- **Flow 3 egress** (mean 116.62 Mbps)

---

Per-packet one-way delay (ms):

- **Flow 1** (95th percentile 155.47 ms)
- **Flow 2** (95th percentile 85.37 ms)
- **Flow 3** (95th percentile 62.14 ms)

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Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-17 11:38:18
End at: 2020-04-17 11:38:48
Local clock offset: -0.447 ms
Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2020-04-17 15:13:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 726.35 Mbit/s
95th percentile per-packet one-way delay: 148.756 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 425.02 Mbit/s
95th percentile per-packet one-way delay: 154.248 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 393.45 Mbit/s
95th percentile per-packet one-way delay: 140.870 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 121.09 Mbit/s
95th percentile per-packet one-way delay: 63.981 ms
Loss rate: 0.03%
Run 3: Report of Indigo-MusesC5 — Data Link
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-04-17 12:17:54
End at: 2020-04-17 12:18:24
Local clock offset: -0.442 ms
Remote clock offset: 0.331 ms

# Below is generated by plot.py at 2020-04-17 15:14:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 728.65 Mbit/s
  95th percentile per-packet one-way delay: 140.288 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 427.89 Mbit/s
  95th percentile per-packet one-way delay: 144.094 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 358.57 Mbit/s
  95th percentile per-packet one-way delay: 142.576 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 318.69 Mbit/s
  95th percentile per-packet one-way delay: 122.507 ms
  Loss rate: 0.09%
Run 4: Report of Indigo-MusesC5 — Data Link
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-04-17 12:57:15
End at: 2020-04-17 12:57:45
Local clock offset: -0.058 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2020-04-17 15:20:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 710.66 Mbit/s
95th percentile per-packet one-way delay: 219.889 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 445.68 Mbit/s
95th percentile per-packet one-way delay: 226.941 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 372.50 Mbit/s
95th percentile per-packet one-way delay: 184.353 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 105.80 Mbit/s
95th percentile per-packet one-way delay: 58.229 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress (mean 450.78 Mbit/s)**
- **Flow 1 egress (mean 445.68 Mbit/s)**
- **Flow 2 ingress (mean 372.70 Mbit/s)**
- **Flow 2 egress (mean 372.50 Mbit/s)**
- **Flow 3 ingress (mean 105.79 Mbit/s)**
- **Flow 3 egress (mean 105.80 Mbit/s)**

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

- **Flow 1 (95th percentile 226.94 ms)**
- **Flow 2 (95th percentile 184.35 ms)**
- **Flow 3 (95th percentile 58.23 ms)**
Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-17 10:34:53
End at: 2020-04-17 10:35:23
Local clock offset: -0.126 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-04-17 15:20:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 703.97 Mbit/s
95th percentile per-packet one-way delay: 81.032 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 437.96 Mbit/s
95th percentile per-packet one-way delay: 83.452 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 309.97 Mbit/s
95th percentile per-packet one-way delay: 72.216 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 266.94 Mbit/s
95th percentile per-packet one-way delay: 64.694 ms
Loss rate: 0.03%
Run 1: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 438.03 Mbit/s)
- Flow 1 egress (mean 437.96 Mbit/s)
- Flow 2 ingress (mean 310.01 Mbit/s)
- Flow 2 egress (mean 309.97 Mbit/s)
- Flow 3 ingress (mean 267.66 Mbit/s)
- Flow 3 egress (mean 266.94 Mbit/s)
Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-17 11:15:02
End at: 2020-04-17 11:15:32
Local clock offset: 0.22 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2020-04-17 15:22:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.73 Mbit/s
95th percentile per-packet one-way delay: 97.684 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 400.58 Mbit/s
95th percentile per-packet one-way delay: 101.403 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 337.25 Mbit/s
95th percentile per-packet one-way delay: 85.429 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 240.80 Mbit/s
95th percentile per-packet one-way delay: 70.402 ms
Loss rate: 0.06%
Run 2: Report of Indigo-MuseS — Data Link

- Throughput (Mbps)

- Time (s)

- Flow 1 ingress (mean 400.72 Mbps)
- Flow 1 egress (mean 400.58 Mbps)
- Flow 2 ingress (mean 337.25 Mbps)
- Flow 2 egress (mean 337.25 Mbps)
- Flow 3 ingress (mean 241.02 Mbps)
- Flow 3 egress (mean 240.89 Mbps)

- Per packet one way delay (ms)

- Flow 1 (95th percentile 101.40 ms)
- Flow 2 (95th percentile 85.43 ms)
- Flow 3 (95th percentile 70.40 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-17 11:54:53
End at: 2020-04-17 11:55:23
Local clock offset: -0.482 ms
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2020-04-17 15:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 702.40 Mbit/s
95th percentile per-packet one-way delay: 93.568 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 410.41 Mbit/s
95th percentile per-packet one-way delay: 97.199 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 355.15 Mbit/s
95th percentile per-packet one-way delay: 91.625 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 247.24 Mbit/s
95th percentile per-packet one-way delay: 78.365 ms
Loss rate: 0.03%
Run 3: Report of Indigo-MusesD — Data Link

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

- **Flow 1 ingress** (mean 410.49 Mbit/s)
- **Flow 1 egress** (mean 410.41 Mbit/s)
- **Flow 2 ingress** (mean 355.34 Mbit/s)
- **Flow 2 egress** (mean 355.15 Mbit/s)
- **Flow 3 ingress** (mean 247.34 Mbit/s)
- **Flow 3 egress** (mean 247.24 Mbit/s)

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

- **Flow 1** (95th percentile 97.20 ms)
- **Flow 2** (95th percentile 91.62 ms)
- **Flow 3** (95th percentile 78.36 ms)
Run 4: Statistics of Indigo-MusesD

Start at: 2020-04-17 12:34:26
End at: 2020-04-17 12:34:56
Local clock offset: 0.312 ms
Remote clock offset: -0.832 ms

# Below is generated by plot.py at 2020-04-17 15:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 614.19 Mbit/s
95th percentile per-packet one-way delay: 92.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 395.78 Mbit/s
95th percentile per-packet one-way delay: 95.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 310.54 Mbit/s
95th percentile per-packet one-way delay: 78.487 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 57.311 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesD — Data Link

![Data Link Throughput and Packet Delay Graphs](image-url)

- Flow 1 ingress (mean 395.79 Mbit/s)
- Flow 1 egress (mean 395.78 Mbit/s)
- Flow 2 ingress (mean 310.55 Mbit/s)
- Flow 2 egress (mean 310.54 Mbit/s)
- Flow 3 ingress (mean 87.92 Mbit/s)
- Flow 3 egress (mean 87.97 Mbit/s)
Run 5: Statistics of Indigo-MusesD

Start at: 2020-04-17 13:13:49
End at: 2020-04-17 13:14:19
Local clock offset: -0.063 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2020-04-17 15:26:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 670.24 Mbit/s
  95th percentile per-packet one-way delay: 97.934 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 398.19 Mbit/s
  95th percentile per-packet one-way delay: 101.807 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 326.98 Mbit/s
  95th percentile per-packet one-way delay: 79.906 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 254.85 Mbit/s
  95th percentile per-packet one-way delay: 72.792 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

![Throughput graph](image)

![Delay graph](image)

- Flow 1 ingress (mean 398.19 Mbit/s)
- Flow 1 egress (mean 398.19 Mbit/s)
- Flow 2 ingress (mean 326.86 Mbit/s)
- Flow 2 egress (mean 326.98 Mbit/s)
- Flow 3 ingress (mean 254.84 Mbit/s)
- Flow 3 egress (mean 254.85 Mbit/s)

- Flow 1 (95th percentile 101.81 ms)
- Flow 2 (95th percentile 79.91 ms)
- Flow 3 (95th percentile 72.79 ms)
Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-17 10:31:18
End at: 2020-04-17 10:31:48
Local clock offset: -0.06 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2020-04-17 15:28:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 763.16 Mbit/s
  95th percentile per-packet one-way delay: 101.354 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 418.90 Mbit/s
  95th percentile per-packet one-way delay: 106.541 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 418.75 Mbit/s
  95th percentile per-packet one-way delay: 71.515 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 302.85 Mbit/s
  95th percentile per-packet one-way delay: 71.743 ms
  Loss rate: 0.00%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 418.89 Mbit/s)
- Flow 1 egress (mean 418.90 Mbit/s)
- Flow 2 ingress (mean 418.83 Mbit/s)
- Flow 2 egress (mean 418.75 Mbit/s)
- Flow 3 ingress (mean 302.84 Mbit/s)
- Flow 3 egress (mean 302.85 Mbit/s)

[Graph showing per-packet one-way delay]

- Flow 1 (95th percentile 106.54 ms)
- Flow 2 (95th percentile 71.52 ms)
- Flow 3 (95th percentile 71.74 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-17 11:11:26
End at: 2020-04-17 11:11:56
Local clock offset: -0.14 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2020-04-17 15:31:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 819.00 Mbit/s
  95th percentile per-packet one-way delay: 105.917 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 493.87 Mbit/s
  95th percentile per-packet one-way delay: 110.842 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 400.47 Mbit/s
  95th percentile per-packet one-way delay: 78.008 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 302.89 Mbit/s
  95th percentile per-packet one-way delay: 77.272 ms
  Loss rate: 0.09%
Run 2: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 493.90 Mbit/s)
- Flow 1 egress (mean 493.87 Mbit/s)
- Flow 2 ingress (mean 400.46 Mbit/s)
- Flow 2 egress (mean 400.47 Mbit/s)
- Flow 3 ingress (mean 303.07 Mbit/s)
- Flow 3 egress (mean 302.99 Mbit/s)

- Flow 1 (95th percentile 110.84 ms)
- Flow 2 (95th percentile 78.01 ms)
- Flow 3 (95th percentile 77.27 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-17 11:51:23
End at: 2020-04-17 11:51:53
Local clock offset: -0.457 ms
Remote clock offset: -0.349 ms

# Below is generated by plot.py at 2020-04-17 15:34:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 766.29 Mbit/s
95th percentile per-packet one-way delay: 123.965 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 451.54 Mbit/s
95th percentile per-packet one-way delay: 137.072 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 379.16 Mbit/s
95th percentile per-packet one-way delay: 87.915 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 290.43 Mbit/s
95th percentile per-packet one-way delay: 92.661 ms
Loss rate: 0.11%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2020-04-17 12:30:54
End at: 2020-04-17 12:31:24
Local clock offset: ~0.091 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2020-04-17 15:35:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 772.49 Mbit/s
95th percentile per-packet one-way delay: 103.139 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 464.07 Mbit/s
95th percentile per-packet one-way delay: 100.596 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 382.58 Mbit/s
95th percentile per-packet one-way delay: 113.911 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 257.81 Mbit/s
95th percentile per-packet one-way delay: 101.344 ms
Loss rate: 0.23%
Run 4: Report of Indigo-MusesT — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 464.57 Mbps)
  - Flow 1 egress (mean 464.07 Mbps)
  - Flow 2 ingress (mean 383.51 Mbps)
  - Flow 2 egress (mean 382.58 Mbps)
  - Flow 3 ingress (mean 256.36 Mbps)
  - Flow 3 egress (mean 257.81 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 100.60 ms)
  - Flow 2 (95th percentile 113.91 ms)
  - Flow 3 (95th percentile 101.34 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2020-04-17 13:10:16
End at: 2020-04-17 13:10:46
Local clock offset: -0.4 ms
Remote clock offset: -0.754 ms

# Below is generated by plot.py at 2020-04-17 15:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 776.50 Mbit/s
95th percentile per-packet one-way delay: 106.542 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 462.72 Mbit/s
95th percentile per-packet one-way delay: 111.751 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 381.62 Mbit/s
95th percentile per-packet one-way delay: 94.344 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 275.71 Mbit/s
95th percentile per-packet one-way delay: 81.219 ms
Loss rate: 0.10%
Run 5: Report of Indigo-MusesT — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 ingress** (mean 462.62 Mbit/s)
- **Flow 1 egress** (mean 462.72 Mbit/s)
- **Flow 2 ingress** (mean 381.62 Mbit/s)
- **Flow 2 egress** (mean 381.62 Mbit/s)
- **Flow 3 ingress** (mean 276.01 Mbit/s)
- **Flow 3 egress** (mean 275.71 Mbit/s)

![Graph 2: Packet Delay vs Time]

- **Flow 1** (95th percentile 111.75 ms)
- **Flow 2** (95th percentile 94.34 ms)
- **Flow 3** (95th percentile 81.22 ms)
Run 1: Statistics of LEDBAT

Start at: 2020-04-17 10:17:04
End at: 2020-04-17 10:17:34
Local clock offset: -0.029 ms
Remote clock offset: 0.95 ms

# Below is generated by plot.py at 2020-04-17 15:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.31 Mbit/s
95th percentile per-packet one-way delay: 59.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 59.404 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 59.048 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 58.492 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 28.52 Mbit/s)
- Flow 1 egress (mean 28.52 Mbit/s)
- Flow 2 ingress (mean 18.97 Mbit/s)
- Flow 2 egress (mean 18.97 Mbit/s)
- Flow 3 ingress (mean 9.53 Mbit/s)
- Flow 3 egress (mean 9.53 Mbit/s)

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

- Flow 1 (95th percentile 59.40 ms)
- Flow 2 (95th percentile 59.05 ms)
- Flow 3 (95th percentile 58.49 ms)
Run 2: Statistics of LEDBAT

Start at: 2020-04-17 10:57:01
End at: 2020-04-17 10:57:31
Local clock offset: 0.252 ms
Remote clock offset: -0.322 ms

# Below is generated by plot.py at 2020-04-17 15:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 60.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.52 Mbit/s
95th percentile per-packet one-way delay: 58.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.00 Mbit/s
95th percentile per-packet one-way delay: 61.893 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 60.807 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

[Graphs showing throughput and per-packet end-to-end delay over time for different flows.]
Run 3: Statistics of LEDEBAT

Start at: 2020-04-17 11:36:59
End at: 2020-04-17 11:37:29
Local clock offset: -0.102 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2020-04-17 15:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 59.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 59.348 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 58.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 58.380 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

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

- **Flow 1 Ingress**: (mean 28.55 Mbit/s)
- **Flow 1 Egress**: (mean 28.55 Mbit/s)
- **Flow 2 Ingress**: (mean 19.15 Mbit/s)
- **Flow 2 Egress**: (mean 19.15 Mbit/s)
- **Flow 3 Ingress**: (mean 8.93 Mbit/s)
- **Flow 3 Egress**: (mean 8.93 Mbit/s)

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

- **Flow 1 95th Percentile**: 59.35 ms
- **Flow 2 95th Percentile**: 58.56 ms
- **Flow 3 95th Percentile**: 58.38 ms
Run 4: Statistics of LEDBAT

Start at: 2020-04-17 12:16:37
End at: 2020-04-17 12:17:07
Local clock offset: 0.267 ms
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2020-04-17 15:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.59 Mbit/s
95th percentile per-packet one-way delay: 62.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 62.767 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 59.297 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 61.810 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

![Throughput Graph](image1)

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

Legend:
- Blue dashed line: Flow 1 ingress (mean 26.95 Mbit/s)
- Blue solid line: Flow 1 egress (mean 26.94 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 19.10 Mbit/s)
- Green solid line: Flow 2 egress (mean 19.10 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 8.91 Mbit/s)
- Red solid line: Flow 3 egress (mean 8.91 Mbit/s)
Run 5: Statistics of LEDBAT

Start at: 2020-04-17 12:55:58
End at: 2020-04-17 12:56:28
Local clock offset: -0.416 ms
Remote clock offset: -0.337 ms

# Below is generated by plot.py at 2020-04-17 15:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 59.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 28.51 Mbit/s
95th percentile per-packet one-way delay: 59.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.02 Mbit/s
95th percentile per-packet one-way delay: 58.671 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.43 Mbit/s
95th percentile per-packet one-way delay: 58.440 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 28.51 Mbit/s)
- Flow 1 egress (mean 28.51 Mbit/s)
- Flow 2 ingress (mean 18.02 Mbit/s)
- Flow 2 egress (mean 18.02 Mbit/s)
- Flow 3 ingress (mean 9.43 Mbit/s)
- Flow 3 egress (mean 9.43 Mbit/s)

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

- Flow 1 (95th percentile 59.57 ms)
- Flow 2 (95th percentile 58.67 ms)
- Flow 3 (95th percentile 58.44 ms)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 10:38:20
End at: 2020-04-17 10:38:50
Local clock offset: -0.107 ms
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2020-04-17 15:42:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 717.51 Mbit/s
95th percentile per-packet one-way delay: 78.729 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 422.78 Mbit/s
95th percentile per-packet one-way delay: 83.466 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 324.37 Mbit/s
95th percentile per-packet one-way delay: 74.658 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 253.83 Mbit/s
95th percentile per-packet one-way delay: 69.198 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 11:18:27
End at: 2020-04-17 11:18:57
Local clock offset: -0.414 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-04-17 15:42:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 685.58 Mbit/s
95th percentile per-packet one-way delay: 80.367 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 386.22 Mbit/s
95th percentile per-packet one-way delay: 86.615 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 346.24 Mbit/s
95th percentile per-packet one-way delay: 77.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 222.32 Mbit/s
95th percentile per-packet one-way delay: 68.345 ms
Loss rate: 0.00%
Run 2: Report of Muses

DecisionTree — Data Link

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

- **Flow 1 ingress (mean 386.43 Mbps)**
- **Flow 1 egress (mean 386.22 Mbps)**
- **Flow 2 ingress (mean 346.24 Mbps)**
- **Flow 2 egress (mean 346.24 Mbps)**
- **Flow 3 ingress (mean 222.13 Mbps)**
- **Flow 3 egress (mean 222.32 Mbps)**

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

- **Flow 1 (95th percentile 86.61 ms)**
- **Flow 2 (95th percentile 77.13 ms)**
- **Flow 3 (95th percentile 68.34 ms)**

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Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 11:58:17
End at: 2020-04-17 11:58:47
Local clock offset: -0.428 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 15:42:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 681.79 Mbit/s
95th percentile per-packet one-way delay: 82.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 403.33 Mbit/s
95th percentile per-packet one-way delay: 84.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 315.10 Mbit/s
95th percentile per-packet one-way delay: 81.830 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 221.64 Mbit/s
95th percentile per-packet one-way delay: 68.968 ms
Loss rate: 0.00%
Run 3: Report of Muses

DecisionTree — Data Link

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[Graphs showing throughput and per-packet end-to-end delay across different flows.]
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 12:37:50
End at: 2020-04-17 12:38:20
Local clock offset: -0.084 ms
Remote clock offset: -0.938 ms

# Below is generated by plot.py at 2020-04-17 15:42:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 630.76 Mbit/s
95th percentile per-packet one-way delay: 90.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.94 Mbit/s
95th percentile per-packet one-way delay: 98.387 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 288.45 Mbit/s
95th percentile per-packet one-way delay: 76.964 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 248.01 Mbit/s
95th percentile per-packet one-way delay: 62.609 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 13:17:11
End at: 2020-04-17 13:17:41
Local clock offset: 0.297 ms
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2020-04-17 15:43:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 606.70 Mbit/s
95th percentile per-packet one-way delay: 78.811 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 325.38 Mbit/s
95th percentile per-packet one-way delay: 77.415 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 310.59 Mbit/s
95th percentile per-packet one-way delay: 83.944 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 241.04 Mbit/s
95th percentile per-packet one-way delay: 75.574 ms
Loss rate: 0.10%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 10:42:02  
End at: 2020-04-17 10:42:32  
Local clock offset: -0.119 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2020-04-17 15:46:52
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 564.04 Mbit/s  
95th percentile per-packet one-way delay: 146.570 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 279.04 Mbit/s  
95th percentile per-packet one-way delay: 154.919 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 290.49 Mbit/s  
95th percentile per-packet one-way delay: 126.121 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 296.53 Mbit/s  
95th percentile per-packet one-way delay: 97.007 ms  
Loss rate: 0.00%
Run 1: Report of Muses—DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 11:22:05
End at: 2020-04-17 11:22:35
Local clock offset: -0.087 ms
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2020-04-17 15:46:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.57 Mbit/s
95th percentile per-packet one-way delay: 169.374 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 222.58 Mbit/s
95th percentile per-packet one-way delay: 175.456 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 235.07 Mbit/s
95th percentile per-packet one-way delay: 142.853 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.72 Mbit/s
95th percentile per-packet one-way delay: 169.649 ms
Loss rate: 0.31%
Run 2: Report of Muses

DecisionTreeH0 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 229.07 Mbps)  Flow 1 egress (mean 222.58 Mbps)
Flow 2 ingress (mean 235.07 Mbps)  Flow 2 egress (mean 235.07 Mbps)
Flow 3 ingress (mean 182.25 Mbps)  Flow 3 egress (mean 181.72 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 175.46 ms)  Flow 2 (95th percentile 142.85 ms)  Flow 3 (95th percentile 169.65 ms)
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 12:01:54
End at: 2020-04-17 12:02:24
Local clock offset: -0.101 ms
Remote clock offset: 0.618 ms

# Below is generated by plot.py at 2020-04-17 15:47:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 468.19 Mbit/s
95th percentile per-packet one-way delay: 149.378 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 250.43 Mbit/s
95th percentile per-packet one-way delay: 162.994 ms
Loss rate: 3.12%
-- Flow 2:
Average throughput: 237.52 Mbit/s
95th percentile per-packet one-way delay: 127.381 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 192.05 Mbit/s
95th percentile per-packet one-way delay: 143.236 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 258.39 Mb/s)  Flow 1 egress (mean 250.43 Mb/s)
Flow 2 ingress (mean 237.53 Mb/s)  Flow 2 egress (mean 237.52 Mb/s)
Flow 3 ingress (mean 193.39 Mb/s)  Flow 3 egress (mean 192.05 Mb/s)

Per-packet mean delay (ms)

Time (s)

Flow 1 (95th percentile 162.99 ms)  Flow 2 (95th percentile 127.38 ms)  Flow 3 (95th percentile 143.24 ms)
Run 4: Statistics of Muses\_DecisionTreeHO

Start at: 2020-04-17 12:41:26
End at: 2020-04-17 12:41:56
Local clock offset: -0.071 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2020-04-17 15:49:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 428.45 Mbit/s
95th percentile per-packet one-way delay: 165.454 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 210.63 Mbit/s
95th percentile per-packet one-way delay: 175.353 ms
Loss rate: 4.13%
-- Flow 2:
Average throughput: 218.10 Mbit/s
95th percentile per-packet one-way delay: 157.590 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 236.41 Mbit/s
95th percentile per-packet one-way delay: 111.463 ms
Loss rate: 0.00%
Run 4: Report of Muses

DecisionTreeH0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 13:20:46
End at: 2020-04-17 13:21:16
Local clock offset: 0.033 ms
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2020-04-17 15:50:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 458.81 Mbit/s
  95th percentile per-packet one-way delay: 166.531 ms
  Loss rate: 2.89%
-- Flow 1:
  Average throughput: 197.06 Mbit/s
  95th percentile per-packet one-way delay: 181.355 ms
  Loss rate: 5.30%
-- Flow 2:
  Average throughput: 313.64 Mbit/s
  95th percentile per-packet one-way delay: 124.890 ms
  Loss rate: 0.18%
-- Flow 3:
  Average throughput: 174.61 Mbit/s
  95th percentile per-packet one-way delay: 166.134 ms
  Loss rate: 3.97%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 208.09 Mbps)
Flow 1 egress (mean 197.06 Mbps)
Flow 2 ingress (mean 314.21 Mbps)
Flow 2 egress (mean 313.64 Mbps)
Flow 3 ingress (mean 182.32 Mbps)
Flow 3 egress (mean 174.61 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 181.35 ms)
Flow 2 (95th percentile 124.89 ms)
Flow 3 (95th percentile 166.13 ms)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 10:25:18  
End at: 2020-04-17 10:25:48  
Local clock offset: -0.441 ms  
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2020-04-17 15:56:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 730.51 Mbit/s
  95th percentile per-packet one-way delay: 70.159 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 417.72 Mbit/s
  95th percentile per-packet one-way delay: 72.981 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 338.51 Mbit/s
  95th percentile per-packet one-way delay: 61.131 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 258.48 Mbit/s
  95th percentile per-packet one-way delay: 66.058 ms
  Loss rate: 0.03%
Run 1: Report of Muses_DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 11:05:30  
End at: 2020-04-17 11:06:00  
Local clock offset: -0.113 ms  
Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2020-04-17 15:56:50  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 624.94 Mbit/s  
95th percentile per-packet one-way delay: 87.153 ms  
Loss rate: 0.00%
-- Flow 1:
Average throughput: 347.22 Mbit/s  
95th percentile per-packet one-way delay: 87.945 ms  
Loss rate: 0.00%
-- Flow 2:
Average throughput: 308.71 Mbit/s  
95th percentile per-packet one-way delay: 66.998 ms  
Loss rate: 0.00%
-- Flow 3:
Average throughput: 231.10 Mbit/s  
95th percentile per-packet one-way delay: 119.804 ms  
Loss rate: 0.04%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

![Graph showing network performance metrics over time. The graphs display throughput and packet one-way delay for different flows. The metrics are presented for Flow 1, Flow 2, and Flow 3, with measures such as mean throughput and 95th percentile delay.]
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 11:45:26  
End at: 2020-04-17 11:45:56  
Local clock offset: 0.188 ms  
Remote clock offset: -0.608 ms

# Below is generated by plot.py at 2020-04-17 15:56:50  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 617.55 Mbit/s  
95th percentile per-packet one-way delay: 80.639 ms  
Loss rate: 0.01%

-- Flow 1:
Average throughput: 343.45 Mbit/s  
95th percentile per-packet one-way delay: 77.355 ms  
Loss rate: 0.00%

-- Flow 2:
Average throughput: 308.90 Mbit/s  
95th percentile per-packet one-way delay: 82.737 ms  
Loss rate: 0.03%

-- Flow 3:
Average throughput: 219.82 Mbit/s  
95th percentile per-packet one-way delay: 109.679 ms  
Loss rate: 0.00%
Run 3: Report of Muses_DecimalTreeR0 — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 343.41 Mbps)
- Flow 1 egress (mean 343.45 Mbps)
- Flow 2 ingress (mean 309.00 Mbps)
- Flow 2 egress (mean 308.90 Mbps)
- Flow 3 ingress (mean 219.67 Mbps)
- Flow 3 egress (mean 219.62 Mbps)

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

- Flow 1 (95th percentile 77.36 ms)
- Flow 2 (95th percentile 82.74 ms)
- Flow 3 (95th percentile 109.68 ms)
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 12:24:58
End at: 2020-04-17 12:25:28
Local clock offset: -0.092 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2020-04-17 15:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 614.19 Mbit/s
95th percentile per-packet one-way delay: 84.161 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 364.22 Mbit/s
95th percentile per-packet one-way delay: 86.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 277.64 Mbit/s
95th percentile per-packet one-way delay: 69.378 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 205.35 Mbit/s
95th percentile per-packet one-way delay: 101.740 ms
Loss rate: 0.05%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 13:04:20
End at: 2020-04-17 13:04:50
Local clock offset: 0.258 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2020-04-17 15:59:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 638.00 Mbit/s
95th percentile per-packet one-way delay: 80.702 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 352.97 Mbit/s
95th percentile per-packet one-way delay: 84.746 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 309.26 Mbit/s
95th percentile per-packet one-way delay: 76.189 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 253.33 Mbit/s
95th percentile per-packet one-way delay: 64.964 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

![Graph of Throughput and Packet Delay]

Throughput (Mbit/s): 0 to 500
Packet Delay (ms): 0 to 130

Legend:
- Flow 1 ingress (mean 352.98 Mbit/s)
- Flow 1 egress (mean 352.97 Mbit/s)
- Flow 2 ingress (mean 309.28 Mbit/s)
- Flow 2 egress (mean 309.26 Mbit/s)
- Flow 3 ingress (mean 252.90 Mbit/s)
- Flow 3 egress (mean 253.33 Mbit/s)
Run 1: Statistics of PCC-Allegro

Start at: 2020-04-17 10:55:13
End at: 2020-04-17 10:55:43
Local clock offset: -0.126 ms
Remote clock offset: -0.718 ms

# Below is generated by plot.py at 2020-04-17 16:09:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 532.46 Mbit/s
  95th percentile per-packet one-way delay: 260.452 ms
  Loss rate: 7.91%
-- Flow 1:
  Average throughput: 328.28 Mbit/s
  95th percentile per-packet one-way delay: 260.624 ms
  Loss rate: 10.73%
-- Flow 2:
  Average throughput: 194.09 Mbit/s
  95th percentile per-packet one-way delay: 208.682 ms
  Loss rate: 1.31%
-- Flow 3:
  Average throughput: 227.62 Mbit/s
  95th percentile per-packet one-way delay: 289.747 ms
  Loss rate: 5.73%
Run 1: Report of PCC-Allegro — Data Link

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

Legend:
- Flow 1 ingress (mean 367.77 Mbit/s)
- Flow 1 egress (mean 328.28 Mbit/s)
- Flow 2 ingress (mean 196.64 Mbit/s)
- Flow 2 egress (mean 194.09 Mbit/s)
- Flow 3 ingress (mean 241.47 Mbit/s)
- Flow 3 egress (mean 227.62 Mbit/s)
Run 2: Statistics of PCC-Allegro

Start at: 2020-04-17 11:35:12
End at: 2020-04-17 11:35:42
Local clock offset: -0.123 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-04-17 16:11:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 534.82 Mbit/s
95th percentile per-packet one-way delay: 195.606 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 276.44 Mbit/s
95th percentile per-packet one-way delay: 191.120 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 270.31 Mbit/s
95th percentile per-packet one-way delay: 211.718 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 239.31 Mbit/s
95th percentile per-packet one-way delay: 175.990 ms
Loss rate: 1.59%
Run 2: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 280.28 Mbit/s)
- Flow 1 egress (mean 276.44 Mbit/s)
- Flow 2 ingress (mean 275.21 Mbit/s)
- Flow 2 egress (mean 270.31 Mbit/s)
- Flow 3 ingress (mean 243.23 Mbit/s)
- Flow 3 egress (mean 239.31 Mbit/s)

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Run 3: Statistics of PCC-Allegro

Start at: 2020-04-17 12:14:48
End at: 2020-04-17 12:15:18
Local clock offset: -0.079 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2020-04-17 16:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.95 Mbit/s
95th percentile per-packet one-way delay: 200.303 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 303.09 Mbit/s
95th percentile per-packet one-way delay: 165.292 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 239.29 Mbit/s
95th percentile per-packet one-way delay: 247.937 ms
Loss rate: 3.94%
-- Flow 3:
Average throughput: 239.75 Mbit/s
95th percentile per-packet one-way delay: 226.814 ms
Loss rate: 1.47%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2020-04-17 12:54:12
End at: 2020-04-17 12:54:42
Local clock offset: -0.05 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2020-04-17 16:16:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 498.44 Mbit/s
  95th percentile per-packet one-way delay: 185.077 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 278.04 Mbit/s
  95th percentile per-packet one-way delay: 170.554 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 256.21 Mbit/s
  95th percentile per-packet one-way delay: 202.230 ms
  Loss rate: 1.83%
-- Flow 3:
  Average throughput: 152.32 Mbit/s
  95th percentile per-packet one-way delay: 172.521 ms
  Loss rate: 0.04%
Run 4: Report of PCC-Allegro — Data Link

The graphs depict the throughput and per-packet one-way delay for three different flows over time.

**Throughput Graph:**
- **Flow 1 ingress** (mean 279.38 Mbit/s)
- **Flow 1 egress** (mean 278.04 Mbit/s)
- **Flow 2 ingress** (mean 260.97 Mbit/s)
- **Flow 2 egress** (mean 256.21 Mbit/s)
- **Flow 3 ingress** (mean 152.34 Mbit/s)
- **Flow 3 egress** (mean 152.32 Mbit/s)

**Per-packet one-way delay Graph:**
- **Flow 1** (95th percentile 170.55 ms)
- **Flow 2** (95th percentile 202.23 ms)
- **Flow 3** (95th percentile 172.52 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2020-04-17 13:33:39  
End at: 2020-04-17 13:34:09  
Local clock offset: 0.004 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2020-04-17 16:16:00  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 465.87 Mbit/s
  95th percentile per-packet one-way delay: 213.795 ms
  Loss rate: 1.40%
-- Flow 1:
  Average throughput: 283.20 Mbit/s
  95th percentile per-packet one-way delay: 235.317 ms
  Loss rate: 1.97%
-- Flow 2:
  Average throughput: 210.73 Mbit/s
  95th percentile per-packet one-way delay: 157.995 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 129.15 Mbit/s
  95th percentile per-packet one-way delay: 243.854 ms
  Loss rate: 1.67%
Run 5: Report of PCC-Allegro — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 288.88 Mbps)
- **Flow 1 egress** (mean 283.20 Mbps)
- **Flow 2 ingress** (mean 211.10 Mbps)
- **Flow 2 egress** (mean 210.73 Mbps)
- **Flow 3 ingress** (mean 131.31 Mbps)
- **Flow 3 egress** (mean 129.15 Mbps)

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

- **Flow 1** (95th percentile 235.32 ms)
- **Flow 2** (95th percentile 158.00 ms)
- **Flow 3** (95th percentile 243.85 ms)
Run 1: Statistics of PCC-Expr

Start at: 2020-04-17 10:51:49
End at: 2020-04-17 10:52:19
Local clock offset: 0.249 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2020-04-17 16:16:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.52 Mbit/s
95th percentile per-packet one-way delay: 177.370 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 216.56 Mbit/s
95th percentile per-packet one-way delay: 183.128 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 199.10 Mbit/s
95th percentile per-packet one-way delay: 98.120 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 133.69 Mbit/s
95th percentile per-packet one-way delay: 192.090 ms
Loss rate: 3.10%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2020-04-17 11:31:44
End at: 2020-04-17 11:32:14
Local clock offset: 0.24 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2020-04-17 16:16:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 416.32 Mbit/s
  95th percentile per-packet one-way delay: 234.024 ms
  Loss rate: 17.53%
-- Flow 1:
  Average throughput: 258.53 Mbit/s
  95th percentile per-packet one-way delay: 241.376 ms
  Loss rate: 25.50%
-- Flow 2:
  Average throughput: 158.87 Mbit/s
  95th percentile per-packet one-way delay: 145.480 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 158.26 Mbit/s
  95th percentile per-packet one-way delay: 129.501 ms
  Loss rate: 0.00%
Run 2: Report of PCC-Expr — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows.]
Run 3: Statistics of PCC-Expr

Start at: 2020-04-17 12:11:28
End at: 2020-04-17 12:11:58
Local clock offset: -0.111 ms
Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2020-04-17 16:16:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 366.22 Mbit/s
  95th percentile per-packet one-way delay: 133.934 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 176.84 Mbit/s
  95th percentile per-packet one-way delay: 117.276 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 200.62 Mbit/s
  95th percentile per-packet one-way delay: 151.110 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 169.49 Mbit/s
  95th percentile per-packet one-way delay: 134.167 ms
  Loss rate: 0.20%
Run 3: Report of PCC-Expr — Data Link

![Graph showing data link throughput and packet delay over time for different flows.](image-url)
Run 4: Statistics of PCC-Expr

Start at: 2020-04-17 12:50:53
End at: 2020-04-17 12:51:23
Local clock offset: -0.084 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2020-04-17 16:22:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 359.80 Mbit/s
  95th percentile per-packet one-way delay: 175.741 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 192.19 Mbit/s
  95th percentile per-packet one-way delay: 137.477 ms
  Loss rate: 0.15%
-- Flow 2:
  Average throughput: 161.32 Mbit/s
  95th percentile per-packet one-way delay: 193.674 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 182.96 Mbit/s
  95th percentile per-packet one-way delay: 120.800 ms
  Loss rate: 0.01%
Run 4: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 192.49 Mbit/s)**
- **Flow 1 egress (mean 192.19 Mbit/s)**
- **Flow 2 ingress (mean 162.29 Mbit/s)**
- **Flow 2 egress (mean 161.32 Mbit/s)**
- **Flow 3 ingress (mean 182.97 Mbit/s)**
- **Flow 3 egress (mean 182.06 Mbit/s)**

- **Flow 1 (95th percentile 137.48 ms)**
- **Flow 2 (95th percentile 193.67 ms)**
- **Flow 3 (95th percentile 120.80 ms)**

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Run 5: Statistics of PCC-Expr

Start at: 2020-04-17 13:30:22
End at: 2020-04-17 13:30:52
Local clock offset: 0.051 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.68 Mbit/s
95th percentile per-packet one-way delay: 219.569 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 187.29 Mbit/s
95th percentile per-packet one-way delay: 249.590 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 183.88 Mbit/s
95th percentile per-packet one-way delay: 110.655 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 118.30 Mbit/s
95th percentile per-packet one-way delay: 180.905 ms
Loss rate: 0.81%
Run 5: Report of PCC-Expr — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 191.34 Mbps)
Flow 1 egress (mean 187.29 Mbps)
Flow 2 ingress (mean 184.19 Mbps)
Flow 2 egress (mean 183.88 Mbps)
Flow 3 ingress (mean 119.30 Mbps)
Flow 3 egress (mean 118.30 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 249.59 ms)
Flow 2 (95th percentile 110.66 ms)
Flow 3 (95th percentile 180.91 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2020-04-17 10:48:50
End at: 2020-04-17 10:49:20
Local clock offset: -0.089 ms
Remote clock offset: -0.533 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 56.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 56.651 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 34.17 Mbit/s
95th percentile per-packet one-way delay: 56.639 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 56.733 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 0.01 Mbit/s)
- Flow 1 egress (mean 0.01 Mbit/s)
- Flow 2 ingress (mean 34.17 Mbit/s)
- Flow 2 egress (mean 34.17 Mbit/s)
- Flow 3 ingress (mean 17.66 Mbit/s)
- Flow 3 egress (mean 17.66 Mbit/s)

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

- Flow 1 (95th percentile 56.65 ms)
- Flow 2 (95th percentile 56.64 ms)
- Flow 3 (95th percentile 56.73 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2020-04-17 11:28:42
End at: 2020-04-17 11:29:12
Local clock offset: -0.468 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 57.383 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 41.37 Mbit/s
95th percentile per-packet one-way delay: 57.380 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 57.374 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 57.409 ms
Loss rate: 0.00%
Run 3: Statistics of QUIC Cubic

Start at: 2020-04-17 12:08:27
End at: 2020-04-17 12:08:57
Local clock offset: -0.079 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.42 Mbit/s
95th percentile per-packet one-way delay: 57.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.33 Mbit/s
95th percentile per-packet one-way delay: 56.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 57.093 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 56.910 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2020-04-17 12:47:53
End at: 2020-04-17 12:48:23
Local clock offset: -0.093 ms
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 60.099 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 56.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 60.153 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 21.64 Mbit/s
95th percentile per-packet one-way delay: 57.014 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

![Graph of throughput over time for different flows]

- Flow 1 ingress (mean 38.02 Mbit/s)
- Flow 1 egress (mean 38.02 Mbit/s)
- Flow 2 ingress (mean 35.17 Mbit/s)
- Flow 2 egress (mean 35.16 Mbit/s)
- Flow 3 ingress (mean 21.64 Mbit/s)
- Flow 3 egress (mean 21.64 Mbit/s)

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

- Flow 1 (95th percentile 56.81 ms)
- Flow 2 (95th percentile 60.15 ms)
- Flow 3 (95th percentile 57.01 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2020-04-17 13:27:19
End at: 2020-04-17 13:27:49
Local clock offset: 0.365 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.00 Mbit/s
95th percentile per-packet one-way delay: 59.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.73 Mbit/s
95th percentile per-packet one-way delay: 56.570 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 56.538 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 59.939 ms
Loss rate: 0.02%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2020-04-17 10:30:06
End at: 2020-04-17 10:30:36
Local clock offset: -0.102 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.145 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.238 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2020-04-17 11:10:14  
End at: 2020-04-17 11:10:44  
Local clock offset: -0.48 ms  
Remote clock offset: -0.153 ms  

# Below is generated by plot.py at 2020-04-17 16:24:08  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 60.644 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.471 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.350 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 60.687 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

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[Data Link Graphs]

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Run 3: Statistics of SCReAM

Start at: 2020-04-17 11:50:11
End at: 2020-04-17 11:50:41
Local clock offset: -0.445 ms
Remote clock offset: 0.53 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 61.139 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 61.158 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.967 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.911 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

Graph 1: Throughput (Mbps) vs 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)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 61.16 ms)
- Flow 2 (95th percentile 57.97 ms)
- Flow 3 (95th percentile 57.91 ms)
Run 4: Statistics of SCReAM

Start at: 2020-04-17 12:29:42
End at: 2020-04-17 12:30:12
Local clock offset: -0.06 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 60.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.383 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.015 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.405 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

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

Start at: 2020-04-17 13:09:04
End at: 2020-04-17 13:09:34
Local clock offset: -0.077 ms
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 56.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.791 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.832 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.854 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

![Graph of throughput over time for different flows]

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

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

- Flow 1 (95th percentile 56.79 ms)
- Flow 2 (95th percentile 56.83 ms)
- Flow 3 (95th percentile 56.85 ms)
Run 1: Statistics of Sprout

Start at: 2020-04-17 10:28:52
End at: 2020-04-17 10:29:22
Local clock offset: -0.114 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.50 Mbit/s
95th percentile per-packet one-way delay: 60.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 60.645 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 57.527 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 57.612 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2020-04-17 11:09:00
End at: 2020-04-17 11:09:30
Local clock offset: -0.123 ms
Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 58.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 58.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 58.077 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 57.739 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

Throughput (Mbps):

Time (s):

- Flow 1 ingress (mean 7.95 Mbps/s)
- Flow 1 egress (mean 7.95 Mbps/s)
- Flow 2 ingress (mean 6.89 Mbps/s)
- Flow 2 egress (mean 6.89 Mbps/s)
- Flow 3 ingress (mean 7.38 Mbps/s)
- Flow 3 egress (mean 7.38 Mbps/s)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 56.05 ms)
- Flow 2 (95th percentile 58.08 ms)
- Flow 3 (95th percentile 57.74 ms)
Run 3: Statistics of Sprout

Start at: 2020-04-17 11:48:57
End at: 2020-04-17 11:49:27
Local clock offset: -0.108 ms
Remote clock offset: 1.218 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.45 Mbit/s
95th percentile per-packet one-way delay: 58.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 58.846 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 58.826 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 59.134 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2020-04-17 12:28:28
End at: 2020-04-17 12:28:58
Local clock offset: -0.06 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.77 Mbit/s
95th percentile per-packet one-way delay: 57.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 57.775 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 58.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 58.051 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

![Graph of data link performance over time]

**Throughput (Mbps)**

- **Flow 1 ingress (mean 7.09 Mbit/s)**
- **Flow 1 egress (mean 7.09 Mbit/s)**
- **Flow 2 ingress (mean 7.85 Mbit/s)**
- **Flow 2 egress (mean 7.85 Mbit/s)**
- **Flow 3 ingress (mean 7.47 Mbit/s)**
- **Flow 3 egress (mean 7.47 Mbit/s)**

![Graph of packet delay over time]

**Packet delay (ms)**

- **Flow 1 (95th percentile 57.77 ms)**
- **Flow 2 (95th percentile 58.00 ms)**
- **Flow 3 (95th percentile 58.05 ms)**
Run 5: Statistics of Sprout

Start at: 2020-04-17 13:07:50
End at: 2020-04-17 13:08:20
Local clock offset: -0.088 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2020-04-17 16:24:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 57.920 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 58.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 57.829 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 57.793 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2020-04-17 10:19:53
End at: 2020-04-17 10:20:23
Local clock offset: -0.029 ms
Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2020-04-17 16:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 396.99 Mbit/s
95th percentile per-packet one-way delay: 68.834 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 207.34 Mbit/s
95th percentile per-packet one-way delay: 67.207 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 209.41 Mbit/s
95th percentile per-packet one-way delay: 68.029 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 146.28 Mbit/s
95th percentile per-packet one-way delay: 80.418 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

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

Legend for first graph:
- Flow 1 ingress (mean 207.34 Mbit/s)
- Flow 1 egress (mean 207.34 Mbit/s)
- Flow 2 ingress (mean 209.67 Mbit/s)
- Flow 2 egress (mean 209.41 Mbit/s)
- Flow 3 ingress (mean 146.27 Mbit/s)
- Flow 3 egress (mean 146.28 Mbit/s)

Legend for second graph:
- Flow 1 (95th percentile 67.21 ms)
- Flow 2 (95th percentile 68.03 ms)
- Flow 3 (95th percentile 80.42 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2020-04-17 11:00:07
End at: 2020-04-17 11:00:37
Local clock offset: 0.26 ms
Remote clock offset: 0.432 ms

# Below is generated by plot.py at 2020-04-17 16:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.08 Mbit/s
95th percentile per-packet one-way delay: 74.414 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 193.09 Mbit/s
95th percentile per-packet one-way delay: 75.535 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 190.11 Mbit/s
95th percentile per-packet one-way delay: 71.347 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 160.81 Mbit/s
95th percentile per-packet one-way delay: 86.869 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 193.09 Mbps)
- Flow 1 egress (mean 193.09 Mbps)
- Flow 2 ingress (mean 190.19 Mbps)
- Flow 2 egress (mean 190.11 Mbps)
- Flow 3 ingress (mean 160.79 Mbps)
- Flow 3 egress (mean 160.81 Mbps)

**Packet Delay (ms):**
- Flow 1 (95th percentile 75.53 ms)
- Flow 2 (95th percentile 71.35 ms)
- Flow 3 (95th percentile 86.87 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2020-04-17 11:40:03  
End at: 2020-04-17 11:40:33  
Local clock offset: -0.124 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-04-17 16:31:13  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 384.10 Mbit/s
  95th percentile per-packet one-way delay: 73.168 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 197.08 Mbit/s
  95th percentile per-packet one-way delay: 72.319 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 192.28 Mbit/s
  95th percentile per-packet one-way delay: 74.368 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 176.92 Mbit/s
  95th percentile per-packet one-way delay: 72.504 ms
  Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2020-04-17 12:19:41
End at: 2020-04-17 12:20:11
Local clock offset: 0.283 ms
Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2020-04-17 16:31:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 372.87 Mbit/s
  95th percentile per-packet one-way delay: 74.087 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 200.47 Mbit/s
  95th percentile per-packet one-way delay: 72.194 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 180.62 Mbit/s
  95th percentile per-packet one-way delay: 73.190 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 156.98 Mbit/s
  95th percentile per-packet one-way delay: 85.167 ms
  Loss rate: 0.05%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2020-04-17 12:59:01
End at: 2020-04-17 12:59:31
Local clock offset: -0.108 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2020-04-17 16:31:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.34 Mbit/s
95th percentile per-packet one-way delay: 76.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.35 Mbit/s
95th percentile per-packet one-way delay: 75.052 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.38 Mbit/s
95th percentile per-packet one-way delay: 79.793 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.33 Mbit/s
95th percentile per-packet one-way delay: 76.207 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

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

- **Flow 1 Ingress (mean 178.35 Mbit/s)**
- **Flow 1 Egress (mean 178.35 Mbit/s)**
- **Flow 2 Ingress (mean 164.38 Mbit/s)**
- **Flow 2 Egress (mean 164.38 Mbit/s)**
- **Flow 3 Ingress (mean 164.34 Mbit/s)**
- **Flow 3 Egress (mean 164.33 Mbit/s)**

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

- **Flow 1 (95th percentile 75.05 ms)**
- **Flow 2 (95th percentile 79.79 ms)**
- **Flow 3 (95th percentile 76.21 ms)**
Run 1: Statistics of TCP Vegas

Start at: 2020-04-17 10:40:08
End at: 2020-04-17 10:40:38
Local clock offset: -0.107 ms
Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2020-04-17 16:32:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 807.28 Mbit/s
95th percentile per-packet one-way delay: 131.289 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 435.78 Mbit/s
95th percentile per-packet one-way delay: 108.534 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 395.57 Mbit/s
95th percentile per-packet one-way delay: 133.971 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 325.40 Mbit/s
95th percentile per-packet one-way delay: 136.386 ms
Loss rate: 0.53%
Run 1: Report of TCP Vegas — Data Link

---

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

- Flow 1 ingress (mean 436.06 Mbps)
- Flow 1 egress (mean 435.78 Mbps)
- Flow 2 ingress (mean 395.20 Mbps)
- Flow 2 egress (mean 395.57 Mbps)
- Flow 3 ingress (mean 326.43 Mbps)
- Flow 3 egress (mean 325.40 Mbps)

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

- Flow 1 (95th percentile 108.53 ms)
- Flow 2 (95th percentile 133.97 ms)
- Flow 3 (95th percentile 136.39 ms)
Run 2: Statistics of TCP Vegas

Start at: 2020-04-17 11:20:14
End at: 2020-04-17 11:20:44
Local clock offset: -0.107 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2020-04-17 16:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 753.69 Mbit/s
95th percentile per-packet one-way delay: 124.040 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 420.13 Mbit/s
95th percentile per-packet one-way delay: 115.297 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 354.20 Mbit/s
95th percentile per-packet one-way delay: 126.430 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 294.24 Mbit/s
95th percentile per-packet one-way delay: 156.597 ms
Loss rate: 0.54%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2020-04-17 12:00:03
End at: 2020-04-17 12:00:33
Local clock offset: 0.244 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2020-04-17 16:40:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 745.68 Mbit/s
95th percentile per-packet one-way delay: 114.681 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 378.98 Mbit/s
95th percentile per-packet one-way delay: 113.726 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 383.49 Mbit/s
95th percentile per-packet one-way delay: 100.958 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 334.82 Mbit/s
95th percentile per-packet one-way delay: 144.982 ms
Loss rate: 1.05%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2020-04-17 12:39:34
End at: 2020-04-17 12:40:04
Local clock offset: -0.084 ms
Remote clock offset: 0.475 ms

# Below is generated by plot.py at 2020-04-17 16:44:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 764.26 Mbit/s
95th percentile per-packet one-way delay: 117.872 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 404.85 Mbit/s
95th percentile per-packet one-way delay: 108.516 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 358.05 Mbit/s
95th percentile per-packet one-way delay: 124.448 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 364.67 Mbit/s
95th percentile per-packet one-way delay: 119.330 ms
Loss rate: 0.41%
Run 4: Report of TCP Vegas — Data Link

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

Start at: 2020-04-17 13:18:54
End at: 2020-04-17 13:19:24
Local clock offset: 0.023 ms
Remote clock offset: -0.305 ms

# Below is generated by plot.py at 2020-04-17 16:46:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 769.54 Mbit/s
95th percentile per-packet one-way delay: 110.275 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 419.96 Mbit/s
95th percentile per-packet one-way delay: 104.962 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 370.99 Mbit/s
95th percentile per-packet one-way delay: 106.368 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 308.95 Mbit/s
95th percentile per-packet one-way delay: 116.037 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2020-04-17 10:53:38
End at: 2020-04-17 10:54:08
Local clock offset: +0.133 ms
Remote clock offset: +0.215 ms

# Below is generated by plot.py at 2020-04-17 16:46:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.61 Mbit/s
95th percentile per-packet one-way delay: 287.481 ms
Loss rate: 6.64%
-- Flow 1:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 112.027 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 119.70 Mbit/s
95th percentile per-packet one-way delay: 189.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.70 Mbit/s
95th percentile per-packet one-way delay: 341.819 ms
Loss rate: 23.80%
Run 1: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 94.16 Mbit/s)
- Flow 1 egress (mean 94.10 Mbit/s)
- Flow 2 ingress (mean 119.70 Mbit/s)
- Flow 2 egress (mean 119.70 Mbit/s)
- Flow 3 ingress (mean 203.02 Mbit/s)
- Flow 3 egress (mean 154.70 Mbit/s)

Legend for packet delay:
- Flow 1 (95th percentile 112.03 ms)
- Flow 2 (95th percentile 189.96 ms)
- Flow 3 (95th percentile 341.62 ms)
Run 2: Statistics of Verus

Start at: 2020-04-17 11:33:38
End at: 2020-04-17 11:34:08
Local clock offset: -0.142 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2020-04-17 16:46:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 215.25 Mbit/s
  95th percentile per-packet one-way delay: 286.059 ms
  Loss rate: 4.65%
-- Flow 1:
  Average throughput: 110.32 Mbit/s
  95th percentile per-packet one-way delay: 98.986 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 126.97 Mbit/s
  95th percentile per-packet one-way delay: 303.914 ms
  Loss rate: 11.03%
-- Flow 3:
  Average throughput: 63.38 Mbit/s
  95th percentile per-packet one-way delay: 89.470 ms
  Loss rate: 0.16%
Run 2: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 110.40 Mbps)
  - Flow 1 egress (mean 110.32 Mbps)
  - Flow 2 ingress (mean 144.38 Mbps)
  - Flow 2 egress (mean 126.97 Mbps)
  - Flow 3 ingress (mean 63.50 Mbps)
  - Flow 3 egress (mean 63.38 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 98.99 ms)
  - Flow 2 (95th percentile 303.91 ms)
  - Flow 3 (95th percentile 89.47 ms)
Run 3: Statistics of Verus

Start at: 2020-04-17 12:13:14
End at: 2020-04-17 12:13:44
Local clock offset: -0.424 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2020-04-17 16:46:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.50 Mbit/s
95th percentile per-packet one-way delay: 127.677 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 137.53 Mbit/s
95th percentile per-packet one-way delay: 135.456 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.11 Mbit/s
95th percentile per-packet one-way delay: 89.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.95 Mbit/s
95th percentile per-packet one-way delay: 97.417 ms
Loss rate: 0.34%
Run 4: Statistics of Verus

Start at: 2020-04-17 12:52:39
End at: 2020-04-17 12:53:09
Local clock offset: -0.108 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2020-04-17 16:46:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.64 Mbit/s
95th percentile per-packet one-way delay: 215.473 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 95.83 Mbit/s
95th percentile per-packet one-way delay: 189.733 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 135.84 Mbit/s
95th percentile per-packet one-way delay: 222.214 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 98.61 Mbit/s
95th percentile per-packet one-way delay: 227.433 ms
Loss rate: 1.31%
Run 4: Report of Verus — Data Link

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

- Flow 1 ingress (mean 97.80 Mbit/s)
- Flow 1 egress (mean 95.83 Mbit/s)
- Flow 2 ingress (mean 138.02 Mbit/s)
- Flow 2 egress (mean 135.84 Mbit/s)
- Flow 3 ingress (mean 99.91 Mbit/s)
- Flow 3 egress (mean 98.61 Mbit/s)

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

- Flow 1 (95th percentile 189.73 ms)
- Flow 2 (95th percentile 222.21 ms)
- Flow 3 (95th percentile 227.43 ms)
Run 5: Statistics of Verus

Start at: 2020-04-17 13:32:06
End at: 2020-04-17 13:32:36
Local clock offset: 0.376 ms
Remote clock offset: -0.601 ms

# Below is generated by plot.py at 2020-04-17 16:46:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.58 Mbit/s
95th percentile per-packet one-way delay: 101.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 124.52 Mbit/s
95th percentile per-packet one-way delay: 109.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 97.277 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.08 Mbit/s
95th percentile per-packet one-way delay: 96.305 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

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Graph showing throughput and per-packet round-trip delay over time for different flows.
Run 1: Statistics of PCC-Vivace

Start at: 2020-04-17 10:36:39
End at: 2020-04-17 10:37:09
Local clock offset: -0.43 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2020-04-17 16:47:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.51 Mbit/s
95th percentile per-packet one-way delay: 71.461 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 260.87 Mbit/s
95th percentile per-packet one-way delay: 75.605 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 196.60 Mbit/s
95th percentile per-packet one-way delay: 61.035 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 58.771 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

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

- **Throughput Graph**
  - Flow 1 ingress (mean 260.93 Mbit/s)
  - Flow 1 egress (mean 260.87 Mbit/s)
  - Flow 2 ingress (mean 196.60 Mbit/s)
  - Flow 2 egress (mean 196.60 Mbit/s)
  - Flow 3 ingress (mean 81.03 Mbit/s)
  - Flow 3 egress (mean 81.03 Mbit/s)

- **Per-packet one-way delay Graph**
  - Flow 1 (95th percentile 75.61 ms)
  - Flow 2 (95th percentile 61.03 ms)
  - Flow 3 (95th percentile 58.77 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2020-04-17 11:16:46
End at: 2020-04-17 11:17:16
Local clock offset: -0.122 ms
Remote clock offset: -1.366 ms

# Below is generated by plot.py at 2020-04-17 16:48:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 423.42 Mbit/s
95th percentile per-packet one-way delay: 115.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.37 Mbit/s
95th percentile per-packet one-way delay: 99.404 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 216.16 Mbit/s
95th percentile per-packet one-way delay: 128.116 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.51 Mbit/s
95th percentile per-packet one-way delay: 116.341 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

![Graphs showing data link performance](image-url)
Run 3: Statistics of PCC-Vivace

Start at: 2020-04-17 11:56:39
End at: 2020-04-17 11:57:09
Local clock offset: -0.091 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-04-17 16:48:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 374.62 Mbit/s
  95th percentile per-packet one-way delay: 85.060 ms
  Loss rate: 0.01%
  -- Flow 1:
    Average throughput: 210.92 Mbit/s
    95th percentile per-packet one-way delay: 124.786 ms
    Loss rate: 0.00%
  -- Flow 2:
    Average throughput: 202.49 Mbit/s
    95th percentile per-packet one-way delay: 61.073 ms
    Loss rate: 0.02%
  -- Flow 3:
    Average throughput: 88.05 Mbit/s
    95th percentile per-packet one-way delay: 61.000 ms
    Loss rate: 0.03%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2020-04-17 12:36:08
End at: 2020-04-17 12:36:38
Local clock offset: -0.075 ms
Remote clock offset: -0.685 ms

# Below is generated by plot.py at 2020-04-17 16:48:07
# Datalink statistics
# Total of 3 flows:
Average throughput: 428.85 Mbit/s
95th percentile per-packet one-way delay: 202.516 ms
Loss rate: 0.31%

-- Flow 1:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 246.556 ms
Loss rate: 0.55%

-- Flow 2:
Average throughput: 213.02 Mbit/s
95th percentile per-packet one-way delay: 66.851 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 151.08 Mbit/s
95th percentile per-packet one-way delay: 108.954 ms
Loss rate: 0.00%
Run 5: Statistics of PCC-Vivace

Start at: 2020-04-17 13:15:33
End at: 2020-04-17 13:16:03
Local clock offset: 0.312 ms
Remote clock offset: 0.717 ms

# Below is generated by plot.py at 2020-04-17 16:48:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.64 Mbit/s
95th percentile per-packet one-way delay: 69.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.61 Mbit/s
95th percentile per-packet one-way delay: 70.450 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.89 Mbit/s
95th percentile per-packet one-way delay: 70.389 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 98.43 Mbit/s
95th percentile per-packet one-way delay: 62.504 ms
Loss rate: 0.05%
Run 5: Report of PCC-Vivace — Data Link

![Graph 1: Throughput vs Time]

Flow 1 ingress (mean 220.61 Mbit/s)  
Flow 1 egress (mean 220.61 Mbit/s)
Flow 2 ingress (mean 179.89 Mbit/s)  
Flow 2 egress (mean 179.89 Mbit/s)
Flow 3 ingress (mean 98.44 Mbit/s)  
Flow 3 egress (mean 98.43 Mbit/s)

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

Flow 1 (95th percentile 70.45 ms)  
Flow 2 (95th percentile 70.39 ms)  
Flow 3 (95th percentile 62.50 ms)
Run 1: Statistics of WebRTC media

Start at: 2020-04-17 10:47:38
End at: 2020-04-17 10:48:08
Local clock offset: -0.429 ms
Remote clock offset: -1.497 ms
Run 1: Report of WebRTC media — Data Link

![Graph of WebRTC media throughput and delay](image-url)
Run 2: Statistics of WebRTC media

Start at: 2020-04-17 11:27:30
End at: 2020-04-17 11:28:00
Local clock offset: -0.125 ms
Remote clock offset: -0.0 ms
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2020-04-17 12:07:15
End at: 2020-04-17 12:07:45
Local clock offset: -0.406 ms
Remote clock offset: -0.216 ms
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2020-04-17 12:46:42
End at: 2020-04-17 12:47:12
Local clock offset: 0.245 ms
Remote clock offset: 0.101 ms
Run 4: Report of WebRTC media — Data Link

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

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

Flow 1 ingress (mean 0.83 Mbit/s) - Flow 1 egress (mean 0.83 Mbit/s)
Flow 2 ingress (mean 0.82 Mbit/s) - Flow 2 egress (mean 0.82 Mbit/s)
Flow 3 ingress (mean 0.06 Mbit/s) - Flow 3 egress (mean 0.06 Mbit/s)
Run 5: Statistics of WebRTC media

Start at: 2020-04-17 13:26:07
End at: 2020-04-17 13:26:37
Local clock offset: 0.032 ms
Remote clock offset: 1.309 ms

# Below is generated by plot.py at 2020-04-17 16:48:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.18 Mbit/s
  95th percentile per-packet one-way delay: 61.949 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.76 Mbit/s
  95th percentile per-packet one-way delay: 58.560 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.80 Mbit/s
  95th percentile per-packet one-way delay: 61.698 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 62.007 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link