Pantheon Report

Generated at 2020-04-16 16:23:43 (UTC).
Data path: GCE Tokyo on ens4 (local) → GCE London 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 @ de42328552b3776a75a932a94defaf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38d4dfe0edbf90cc77e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a9064eb77cf3cf
third_party/muses @ 5ce72187ad823da20955337730c746e866a9466
third_party/muses-dtree @ 387225f7b5f61dbbe92d708a8686fbb84e3b00
third_party/pantheon-tunnel @ f3663f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d18b623c091a55f8ec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f01a82733a86b42f1bc8143ebc978f3c4f2
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3db2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
test from GCE Tokyo to GCE London, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
</tr>
<tr>
<td>TCP BBR</td>
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<td>523.83</td>
<td>480.44</td>
<td>362.45</td>
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<td>Copa</td>
<td>5</td>
<td>250.54</td>
<td>201.64</td>
<td>139.64</td>
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<td>TCP Cubic</td>
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<td>266.28</td>
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<td>282.93</td>
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<td>187.21</td>
<td>277.36</td>
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Run 1: Statistics of TCP BBR

Start at: 2020-04-16 09:58:05
End at: 2020-04-16 09:58:35
Local clock offset: 1.212 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2020-04-16 13:34:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 952.50 Mbit/s
95th percentile per-packet one-way delay: 194.069 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 493.12 Mbit/s
95th percentile per-packet one-way delay: 187.596 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 497.27 Mbit/s
95th percentile per-packet one-way delay: 204.009 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 386.91 Mbit/s
95th percentile per-packet one-way delay: 166.490 ms
Loss rate: 0.06%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2020-04-16 10:39:28
End at: 2020-04-16 10:39:58
Local clock offset: -0.018 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1009.77 Mbit/s
95th percentile per-packet one-way delay: 218.486 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 534.20 Mbit/s
95th percentile per-packet one-way delay: 204.839 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 502.24 Mbit/s
95th percentile per-packet one-way delay: 236.303 ms
Loss rate: 3.44%
-- Flow 3:
Average throughput: 425.34 Mbit/s
95th percentile per-packet one-way delay: 228.859 ms
Loss rate: 3.35%
Run 2: Report of TCP BBR — Data Link

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

Start at: 2020-04-16 11:20:41
End at: 2020-04-16 11:21:11
Local clock offset: -0.18 ms
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 925.77 Mbit/s
  95th percentile per-packet one-way delay: 197.938 ms
  Loss rate: 1.41%
-- Flow 1:
  Average throughput: 582.86 Mbit/s
  95th percentile per-packet one-way delay: 216.161 ms
  Loss rate: 2.04%
-- Flow 2:
  Average throughput: 380.21 Mbit/s
  95th percentile per-packet one-way delay: 137.992 ms
  Loss rate: 0.40%
-- Flow 3:
  Average throughput: 271.16 Mbit/s
  95th percentile per-packet one-way delay: 155.828 ms
  Loss rate: 0.05%
Run 3: Report of TCP BBR — Data Link

[Graphs showing throughput and packet delay over time for different flows]
Run 4: Statistics of TCP BBR

Start at: 2020-04-16 12:02:07
End at: 2020-04-16 12:02:37
Local clock offset: -0.216 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 922.38 Mbit/s
95th percentile per-packet one-way delay: 175.500 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 466.74 Mbit/s
95th percentile per-packet one-way delay: 145.816 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 477.78 Mbit/s
95th percentile per-packet one-way delay: 195.239 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 414.77 Mbit/s
95th percentile per-packet one-way delay: 177.633 ms
Loss rate: 1.35%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 466.73 Mbit/s)
- Flow 1 egress (mean 466.74 Mbit/s)
- Flow 2 ingress (mean 484.33 Mbit/s)
- Flow 2 egress (mean 477.78 Mbit/s)
- Flow 3 ingress (mean 420.87 Mbit/s)
- Flow 3 egress (mean 414.77 Mbit/s)

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

- Flow 1 (95th percentile 145.82 ms)
- Flow 2 (95th percentile 195.24 ms)
- Flow 3 (95th percentile 177.63 ms)
Run 5: Statistics of TCP BBR

Start at: 2020-04-16 12:43:38
End at: 2020-04-16 12:44:08
Local clock offset: -0.311 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1009.25 Mbit/s
95th percentile per-packet one-way delay: 179.630 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 542.21 Mbit/s
95th percentile per-packet one-way delay: 157.205 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 544.69 Mbit/s
95th percentile per-packet one-way delay: 191.303 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 314.08 Mbit/s
95th percentile per-packet one-way delay: 225.016 ms
Loss rate: 1.24%
Run 5: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]
- Flow 1 ingress (mean 542.66 Mbps)
- Flow 1 egress (mean 542.21 Mbps)
- Flow 2 ingress (mean 548.94 Mbps)
- Flow 2 egress (mean 544.69 Mbps)
- Flow 3 ingress (mean 318.03 Mbps)
- Flow 3 egress (mean 314.08 Mbps)

![Graph 2: Per-packet one-way delay (ms)]
- Flow 1 (95th percentile 157.21 ms)
- Flow 2 (95th percentile 191.30 ms)
- Flow 3 (95th percentile 225.02 ms)
Run 1: Statistics of Copa

Start at: 2020-04-16 09:46:18
End at: 2020-04-16 09:46:48
Local clock offset: -0.142 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 435.87 Mbit/s
  95th percentile per-packet one-way delay: 130.065 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 273.24 Mbit/s
  95th percentile per-packet one-way delay: 120.500 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 172.56 Mbit/s
  95th percentile per-packet one-way delay: 167.597 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 143.83 Mbit/s
  95th percentile per-packet one-way delay: 109.177 ms
  Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 273.23 Mbps)
  - Flow 1 egress (mean 273.24 Mbps)
  - Flow 2 ingress (mean 172.56 Mbps)
  - Flow 2 egress (mean 172.56 Mbps)
  - Flow 3 ingress (mean 143.83 Mbps)
  - Flow 3 egress (mean 143.83 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 120.50 ms)
  - Flow 2 (95th percentile 167.60 ms)
  - Flow 3 (95th percentile 109.10 ms)
Run 2: Statistics of Copa

Start at: 2020-04-16 10:27:29
End at: 2020-04-16 10:27:59
Local clock offset: -0.245 ms
Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 430.84 Mbit/s
95th percentile per-packet one-way delay: 115.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.26 Mbit/s
95th percentile per-packet one-way delay: 116.768 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.62 Mbit/s
95th percentile per-packet one-way delay: 111.318 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 126.67 Mbit/s
95th percentile per-packet one-way delay: 115.259 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2020-04-16 11:08:47
End at: 2020-04-16 11:09:17
Local clock offset: -0.739 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2020-04-16 13:36:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.36 Mbit/s
95th percentile per-packet one-way delay: 161.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 259.18 Mbit/s
95th percentile per-packet one-way delay: 153.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 242.29 Mbit/s
95th percentile per-packet one-way delay: 172.387 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 147.38 Mbit/s
95th percentile per-packet one-way delay: 140.522 ms
Loss rate: 0.03%
Run 3: Report of Copa — Data Link

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

Graph 2: Per-packet one-way delay (ms) vs. Time (s)
Run 4: Statistics of Copa

Start at: 2020-04-16 11:50:08
End at: 2020-04-16 11:50:38
Local clock offset: 1.15 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2020-04-16 13:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 431.83 Mbit/s
95th percentile per-packet one-way delay: 130.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 225.16 Mbit/s
95th percentile per-packet one-way delay: 115.529 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 238.03 Mbit/s
95th percentile per-packet one-way delay: 140.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.15 Mbit/s
95th percentile per-packet one-way delay: 114.365 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link

![Throughput and Delay Graphs]

1. Throughput Graph:
   - Legend: Flow 1 ingress (mean 225.15 Mbit/s), Flow 1 egress (mean 225.16 Mbit/s), Flow 2 ingress (mean 238.03 Mbit/s), Flow 2 egress (mean 238.03 Mbit/s), Flow 3 ingress (mean 145.17 Mbit/s), Flow 3 egress (mean 145.15 Mbit/s)
   - Time (s) axis: 0 to 30
   - Throughput range: 0 to 350 Mbit/s

2. Delay Graph:
   - Legend: Flow 1 (95th percentile 115.53 ms), Flow 2 (95th percentile 140.37 ms), Flow 3 (95th percentile 114.36 ms)
   - Time (s) axis: 0 to 30
   - Delay range: 0 to 220 ms
Run 5: Statistics of Copa

Start at: 2020-04-16 12:32:03
End at: 2020-04-16 12:32:33
Local clock offset: 0.25 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2020-04-16 13:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 387.77 Mbit/s
95th percentile per.packet one-way delay: 125.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.86 Mbit/s
95th percentile per.packet one-way delay: 119.603 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 163.72 Mbit/s
95th percentile per.packet one-way delay: 138.070 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.18 Mbit/s
95th percentile per.packet one-way delay: 108.736 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Graph showing network performance metrics over time.](image)

### Throughput (Mbps)
- **Flow 1 Ingress**: Mean 233.85 Mbps
- **Flow 1 Egress**: Mean 233.86 Mbps
- **Flow 2 Ingress**: Mean 163.72 Mbps
- **Flow 2 Egress**: Mean 163.72 Mbps
- **Flow 3 Ingress**: Mean 135.18 Mbps
- **Flow 3 Egress**: Mean 135.18 Mbps

### Per-packet one-way delay (ms)
- **Flow 1**: 95th percentile 119.60 ms
- **Flow 2**: 95th percentile 138.07 ms
- **Flow 3**: 95th percentile 108.74 ms
Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 10:02:16
End at: 2020-04-16 10:02:46
Local clock offset: 0.007 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-04-16 13:53:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 545.62 Mbit/s
  95th percentile per-packet one-way delay: 191.535 ms
  Loss rate: 0.22%
-- Flow 1:
  Average throughput: 316.97 Mbit/s
  95th percentile per-packet one-way delay: 175.512 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 182.56 Mbit/s
  95th percentile per-packet one-way delay: 111.025 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 322.04 Mbit/s
  95th percentile per-packet one-way delay: 218.663 ms
  Loss rate: 0.96%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 10:43:45
End at: 2020-04-16 10:44:15
Local clock offset: 0.019 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2020-04-16 13:53:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 409.36 Mbit/s
95th percentile per-packet one-way delay: 110.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.31 Mbit/s
95th percentile per-packet one-way delay: 108.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.61 Mbit/s
95th percentile per-packet one-way delay: 111.771 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 67.68 Mbit/s
95th percentile per-packet one-way delay: 109.394 ms
Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 255.30 Mbit/s)
- Flow 1 egress (mean 255.31 Mbit/s)
- Flow 2 ingress (mean 197.61 Mbit/s)
- Flow 2 egress (mean 197.61 Mbit/s)
- Flow 3 ingress (mean 67.68 Mbit/s)
- Flow 3 egress (mean 67.68 Mbit/s)
Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 11:24:57
End at: 2020-04-16 11:25:27
Local clock offset: -0.011 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2020-04-16 13:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 468.33 Mbit/s
95th percentile per-packet one-way delay: 115.832 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 308.36 Mbit/s
95th percentile per-packet one-way delay: 115.747 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 206.63 Mbit/s
95th percentile per-packet one-way delay: 116.507 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 67.23 Mbit/s
95th percentile per-packet one-way delay: 111.620 ms
Loss rate: 0.02%
Run 3: Report of TCP Cubic — Data Link

![Graph showing throughput over time for different flows]

- Flow 1 ingress (mean 308.50 Mbit/s)
- Flow 1 egress (mean 308.36 Mbit/s)
- Flow 2 ingress (mean 206.76 Mbit/s)
- Flow 2 egress (mean 206.63 Mbit/s)
- Flow 3 ingress (mean 67.24 Mbit/s)
- Flow 3 egress (mean 67.23 Mbit/s)

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

- Flow 1 (95th percentile 115.75 ms)
- Flow 2 (95th percentile 116.51 ms)
- Flow 3 (95th percentile 111.62 ms)
Run 4: Statistics of TCP Cubic

Start at: 2020-04-16 12:06:29
End at: 2020-04-16 12:06:59
Local clock offset: 0.607 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2020-04-16 13:53:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 353.01 Mbit/s
  95th percentile per-packet one-way delay: 232.663 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 138.96 Mbit/s
  95th percentile per-packet one-way delay: 185.285 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 213.82 Mbit/s
  95th percentile per-packet one-way delay: 261.739 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 215.06 Mbit/s
  95th percentile per-packet one-way delay: 135.209 ms
  Loss rate: 0.08%
Run 5: Statistics of TCP Cubic

Start at: 2020-04-16 12:47:50
End at: 2020-04-16 12:48:20
Local clock offset: -0.125 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2020-04-16 13:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 508.84 Mbit/s
95th percentile per-packet one-way delay: 186.601 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 311.80 Mbit/s
95th percentile per-packet one-way delay: 200.509 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 228.86 Mbit/s
95th percentile per-packet one-way delay: 135.487 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 133.98 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2020-04-16 09:48:23
End at: 2020-04-16 09:48:53
Local clock offset: -0.048 ms
Remote clock offset: 0.377 ms

# Below is generated by plot.py at 2020-04-16 13:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 488.38 Mbit/s
95th percentile per-packet one-way delay: 115.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.88 Mbit/s
95th percentile per-packet one-way delay: 112.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 288.51 Mbit/s
95th percentile per-packet one-way delay: 117.987 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.46 Mbit/s
95th percentile per-packet one-way delay: 114.024 ms
Loss rate: 0.03%
Run 1: Report of FillP — Data Link

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

Flow 1 ingress (mean 227.87 Mbit/s)  
Flow 1 egress (mean 227.88 Mbit/s)  
Flow 2 ingress (mean 288.50 Mbit/s)  
Flow 2 egress (mean 288.51 Mbit/s)  
Flow 3 ingress (mean 296.50 Mbit/s)  
Flow 3 egress (mean 296.46 Mbit/s)
Run 2: Statistics of FillP

Start at: 2020-04-16 10:29:33
End at: 2020-04-16 10:30:03
Local clock offset: -0.123 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2020-04-16 14:08:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 678.47 Mbit/s
  95th percentile per-packet one-way delay: 138.476 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 424.90 Mbit/s
  95th percentile per-packet one-way delay: 145.366 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 288.31 Mbit/s
  95th percentile per-packet one-way delay: 109.733 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 187.47 Mbit/s
  95th percentile per-packet one-way delay: 111.556 ms
  Loss rate: 0.00%
Run 2: Report of FillP — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 424.88 Mbit/s)
Flow 1 egress (mean 424.90 Mbit/s)
Flow 2 ingress (mean 288.32 Mbit/s)
Flow 2 egress (mean 288.31 Mbit/s)
Flow 3 ingress (mean 187.46 Mbit/s)
Flow 3 egress (mean 187.47 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 145.37 ms)
Flow 2 (95th percentile 109.73 ms)
Flow 3 (95th percentile 111.56 ms)
Run 3: Statistics of FillP

Start at: 2020-04-16 11:10:55
End at: 2020-04-16 11:11:25
Local clock offset: -0.126 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2020-04-16 14:08:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 520.82 Mbit/s
95th percentile per-packet one-way delay: 127.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.16 Mbit/s
95th percentile per-packet one-way delay: 137.564 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 307.99 Mbit/s
95th percentile per-packet one-way delay: 109.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 248.38 Mbit/s
95th percentile per-packet one-way delay: 115.681 ms
Loss rate: 0.00%
Run 3: Report of FillP — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 234.15 Mbps)
- **Flow 1 egress** (mean 234.16 Mbps)
- **Flow 2 ingress** (mean 307.98 Mbps)
- **Flow 2 egress** (mean 307.99 Mbps)
- **Flow 3 ingress** (mean 248.37 Mbps)
- **Flow 3 egress** (mean 248.38 Mbps)

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

- **Flow 1** (95th percentile 137.56 ms)
- **Flow 2** (95th percentile 109.76 ms)
- **Flow 3** (95th percentile 115.68 ms)
Run 4: Statistics of FillP

Start at: 2020-04-16 11:52:13
End at: 2020-04-16 11:52:43
Local clock offset: -0.188 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2020-04-16 14:09:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 649.10 Mbit/s
  95th percentile per-packet one-way delay: 144.272 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 399.97 Mbit/s
  95th percentile per-packet one-way delay: 153.165 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 269.75 Mbit/s
  95th percentile per-packet one-way delay: 114.065 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 211.72 Mbit/s
  95th percentile per-packet one-way delay: 110.375 ms
  Loss rate: 0.00%
Run 4: Report of FillP — Data Link

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

- Flow 1 ingress (mean 400.17 Mbit/s)
- Flow 2 ingress (mean 269.75 Mbit/s)
- Flow 3 ingress (mean 211.72 Mbit/s)
- Flow 1 egress (mean 399.97 Mbit/s)
- Flow 2 egress (mean 269.75 Mbit/s)
- Flow 3 egress (mean 211.72 Mbit/s)

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

- Flow 1 (95th percentile 153.16 ms)
- Flow 2 (95th percentile 114.06 ms)
- Flow 3 (95th percentile 110.38 ms)
Run 5: Statistics of FillP

Start at: 2020-04-16 12:34:04
End at: 2020-04-16 12:34:34
Local clock offset: -0.039 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2020-04-16 14:09:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.72 Mbit/s
95th percentile per-packet one-way delay: 114.452 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 127.75 Mbit/s
95th percentile per-packet one-way delay: 123.477 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 291.43 Mbit/s
95th percentile per-packet one-way delay: 114.007 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 206.90 Mbit/s
95th percentile per-packet one-way delay: 109.975 ms
Loss rate: 0.00%
Run 5: Report of FillP — Data Link

![Graph of throughput vs time for different flows]

- Flow 1 ingress (mean 127.74 Mbit/s)
- Flow 1 egress (mean 127.75 Mbit/s)
- Flow 2 ingress (mean 291.51 Mbit/s)
- Flow 2 egress (mean 291.43 Mbit/s)
- Flow 3 ingress (mean 206.90 Mbit/s)
- Flow 3 egress (mean 206.90 Mbit/s)

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

- Flow 1 (95th percentile 123.48 ms)
- Flow 2 (95th percentile 114.01 ms)
- Flow 3 (95th percentile 109.97 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 09:44:29
End at: 2020-04-16 09:44:59
Local clock offset: -0.102 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2020-04-16 14:12:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 648.08 Mbit/s
  95th percentile per-packet one-way delay: 114.992 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 399.49 Mbit/s
  95th percentile per-packet one-way delay: 115.829 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 268.68 Mbit/s
  95th percentile per-packet one-way delay: 109.172 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 208.74 Mbit/s
  95th percentile per-packet one-way delay: 113.811 ms
  Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

![Throughput and Delay Graphs]

- **Throughput (Mb/s):**
  - Flow 1 ingress (mean 399.53 Mb/s)
  - Flow 1 egress (mean 399.49 Mb/s)
  - Flow 2 ingress (mean 268.68 Mb/s)
  - Flow 2 egress (mean 268.68 Mb/s)
  - Flow 3 ingress (mean 206.77 Mb/s)
  - Flow 3 egress (mean 208.74 Mb/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 115.83 ms)
  - Flow 2 (95th percentile 109.17 ms)
  - Flow 3 (95th percentile 113.81 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 10:25:55
End at: 2020-04-16 10:26:25
Local clock offset: 0.038 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2020-04-16 14:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.08 Mbit/s
95th percentile per-packet one-way delay: 111.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.62 Mbit/s
95th percentile per-packet one-way delay: 117.346 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 302.63 Mbit/s
95th percentile per-packet one-way delay: 111.925 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 212.43 Mbit/s
95th percentile per-packet one-way delay: 108.933 ms
Loss rate: 0.00%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 11:07:15
End at: 2020-04-16 11:07:45
Local clock offset: -0.882 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2020-04-16 14:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.78 Mbit/s
95th percentile per-packet one-way delay: 113.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 39.81 Mbit/s
95th percentile per-packet one-way delay: 141.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 271.06 Mbit/s
95th percentile per-packet one-way delay: 111.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.84 Mbit/s
95th percentile per-packet one-way delay: 108.114 ms
Loss rate: 0.00%
Run 3: Report of FillP-Sheep — Data Link
Run 4: Statistics of FillP-Sheep

Start at: 2020-04-16 11:48:36
End at: 2020-04-16 11:49:06
Local clock offset: 0.529 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-04-16 14:12:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.73 Mbit/s
95th percentile per-packet one-way delay: 113.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 118.544 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 268.05 Mbit/s
95th percentile per-packet one-way delay: 108.314 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 210.38 Mbit/s
95th percentile per-packet one-way delay: 111.757 ms
Loss rate: 0.00%
Run 4: Report of FillP-Sheep — Data Link

[Graph showing throughput and delay over time for different flows]
Run 5: Statistics of FillP-Sheep

Start at: 2020-04-16 12:30:14
End at: 2020-04-16 12:30:44
Local clock offset: ~0.052 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2020-04-16 14:24:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 657.18 Mbit/s
95th percentile per-packet one-way delay: 121.933 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 408.92 Mbit/s
95th percentile per-packet one-way delay: 138.374 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 276.36 Mbit/s
95th percentile per-packet one-way delay: 113.653 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 113.642 ms
Loss rate: 0.00%
Run 5: Report of FillP-Sheep — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 409.24 Mbps)
- Flow 1 egress (mean 408.92 Mbps)
- Flow 2 ingress (mean 276.36 Mbps)
- Flow 2 egress (mean 276.36 Mbps)
- Flow 3 ingress (mean 196.19 Mbps)
- Flow 3 egress (mean 196.19 Mbps)

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

- Flow 1 (95th percentile 138.37 ms)
- Flow 2 (95th percentile 113.65 ms)
- Flow 3 (95th percentile 113.64 ms)
Run 1: Statistics of Indigo

Start at: 2020-04-16 09:27:20
End at: 2020-04-16 09:27:50
Local clock offset: 0.586 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2020-04-16 14:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.34 Mbit/s
95th percentile per-packet one-way delay: 109.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.24 Mbit/s
95th percentile per-packet one-way delay: 110.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 125.30 Mbit/s
95th percentile per-packet one-way delay: 109.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 109.398 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

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

Flow 1 ingress (mean 146.24 Mbit/s) — Flow 1 egress (mean 146.24 Mbit/s)
Flow 2 ingress (mean 125.30 Mbit/s) — Flow 2 egress (mean 125.30 Mbit/s)
Flow 3 ingress (mean 94.54 Mbit/s) — Flow 3 egress (mean 94.53 Mbit/s)

Flow 1 (95th percentile 110.09 ms) — Flow 2 (95th percentile 109.59 ms) — Flow 3 (95th percentile 109.40 ms)
Run 2: Statistics of Indigo

Start at: 2020-04-16 10:08:36
End at: 2020-04-16 10:09:06
Local clock offset: 0.019 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2020-04-16 14:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.75 Mbit/s
95th percentile per-packet one-way delay: 112.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.35 Mbit/s
95th percentile per-packet one-way delay: 112.540 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 130.74 Mbit/s
95th percentile per-packet one-way delay: 111.249 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.08 Mbit/s
95th percentile per-packet one-way delay: 110.800 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image2)
Run 3: Statistics of Indigo

Start at: 2020-04-16 10:49:57
End at: 2020-04-16 10:50:27
Local clock offset: 0.038 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2020-04-16 14:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.49 Mbit/s
95th percentile per-packet one-way delay: 110.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.15 Mbit/s
95th percentile per-packet one-way delay: 110.446 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.68 Mbit/s
95th percentile per-packet one-way delay: 111.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 112.61 Mbit/s
95th percentile per-packet one-way delay: 107.834 ms
Loss rate: 0.00%
Run 4: Statistics of Indigo

Start at: 2020-04-16 11:31:19
End at: 2020-04-16 11:31:49
Local clock offset: -0.155 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2020-04-16 14:24:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 265.70 Mbit/s
  95th percentile per-packet one-way delay: 111.207 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 141.89 Mbit/s
  95th percentile per-packet one-way delay: 111.472 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 129.40 Mbit/s
  95th percentile per-packet one-way delay: 107.813 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 120.24 Mbit/s
  95th percentile per-packet one-way delay: 111.627 ms
  Loss rate: 0.00%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2020-04-16 12:12:39
End at: 2020-04-16 12:13:09
Local clock offset: 0.53 ms
Remote clock offset: 0.387 ms

# Below is generated by plot.py at 2020-04-16 14:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 268.84 Mbit/s
95th percentile per-packet one-way delay: 113.194 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 146.45 Mbit/s
95th percentile per-packet one-way delay: 107.048 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 137.86 Mbit/s
95th percentile per-packet one-way delay: 114.319 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 113.982 ms
Loss rate: 0.03%
Run 5: Report of Indigo — Data Link

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

Throughput (Mbps):
- Flow 1 ingress (mean 146.45 Mbps)
- Flow 1 egress (mean 146.45 Mbps)
- Flow 2 ingress (mean 138.31 Mbps)
- Flow 2 egress (mean 137.86 Mbps)
- Flow 3 ingress (mean 97.40 Mbps)
- Flow 3 egress (mean 97.40 Mbps)

Packet delay (ms):
- Flow 1 (95th percentile 107.05 ms)
- Flow 2 (95th percentile 114.32 ms)
- Flow 3 (95th percentile 113.98 ms)
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 09:34:23
End at: 2020-04-16 09:34:53
Local clock offset: 1.088 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2020-04-16 14:24:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 523.76 Mbit/s
95th percentile per-packet one-way delay: 111.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.51 Mbit/s
95th percentile per-packet one-way delay: 111.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 260.77 Mbit/s
95th percentile per-packet one-way delay: 110.114 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.07 Mbit/s
95th percentile per-packet one-way delay: 110.527 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC3 — Data Link

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**Throughput (Mbps)**

- Flow 1 ingress (mean 319.50 Mbps)
- Flow 1 egress (mean 319.51 Mbps)
- Flow 2 ingress (mean 260.77 Mbps)
- Flow 2 egress (mean 260.77 Mbps)
- Flow 3 ingress (mean 159.07 Mbps)
- Flow 3 egress (mean 159.07 Mbps)

---

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

- Flow 1 (95th percentile 111.47 ms)
- Flow 2 (95th percentile 110.11 ms)
- Flow 3 (95th percentile 110.53 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 10:15:41
End at: 2020-04-16 10:16:11
Local clock offset: -0.648 ms
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2020-04-16 14:27:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 527.40 Mbit/s
  95th percentile per-packet one-way delay: 110.112 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 331.13 Mbit/s
  95th percentile per-packet one-way delay: 108.827 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 242.69 Mbit/s
  95th percentile per-packet one-way delay: 108.534 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 184.77 Mbit/s
  95th percentile per-packet one-way delay: 111.734 ms
  Loss rate: 0.00%
Run 2: Report of Indigo-MusesC3 — Data Link
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 10:57:10
End at: 2020-04-16 10:57:40
Local clock offset: -0.137 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2020-04-16 14:29:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 502.28 Mbit/s
95th percentile per-packet one-way delay: 111.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 301.64 Mbit/s
95th percentile per-packet one-way delay: 111.710 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 255.17 Mbit/s
95th percentile per-packet one-way delay: 110.566 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.08 Mbit/s
95th percentile per-packet one-way delay: 108.086 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC3 — Data Link

![Graph of Throughput and Delay](image-url)
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-04-16 11:38:33
End at: 2020-04-16 11:39:03
Local clock offset: -0.073 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-04-16 14:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 508.43 Mbit/s
95th percentile per-packet one-way delay: 112.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 317.21 Mbit/s
95th percentile per-packet one-way delay: 113.095 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 235.68 Mbit/s
95th percentile per-packet one-way delay: 112.968 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.79 Mbit/s
95th percentile per-packet one-way delay: 110.570 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 317.20 Mbps)
- Flow 1 egress (mean 317.21 Mbps)
- Flow 2 ingress (mean 235.68 Mbps)
- Flow 2 egress (mean 235.68 Mbps)
- Flow 3 ingress (mean 170.78 Mbps)
- Flow 3 egress (mean 170.79 Mbps)

![Graph 2: End-to-end delay (ms)](image2)

- Flow 1 (95th percentile 113.09 ms)
- Flow 2 (95th percentile 112.97 ms)
- Flow 3 (95th percentile 110.57 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-04-16 12:20:02
End at: 2020-04-16 12:20:32
Local clock offset: 1.14 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2020-04-16 14:31:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 501.48 Mbit/s
  95th percentile per-packet one-way delay: 111.160 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 307.69 Mbit/s
  95th percentile per-packet one-way delay: 111.568 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 256.22 Mbit/s
  95th percentile per-packet one-way delay: 110.832 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 147.12 Mbit/s
  95th percentile per-packet one-way delay: 106.802 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1 Ingress (mean 307.68 Mbps)**
- **Flow 1 Egress (mean 307.69 Mbps)**
- **Flow 2 Ingress (mean 256.22 Mbps)**
- **Flow 2 Egress (mean 256.22 Mbps)**
- **Flow 3 Ingress (mean 147.11 Mbps)**
- **Flow 3 Egress (mean 147.12 Mbps)**

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

- **Flow 1 (95th percentile 111.57 ms)**
- **Flow 2 (95th percentile 110.83 ms)**
- **Flow 3 (95th percentile 106.80 ms)**

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Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 09:56:19
End at: 2020-04-16 09:56:49
Local clock offset: 0.54 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2020-04-16 14:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 463.18 Mbit/s
95th percentile per-packet one-way delay: 114.773 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 271.77 Mbit/s
95th percentile per-packet one-way delay: 115.565 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 271.01 Mbit/s
95th percentile per-packet one-way delay: 112.481 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 106.889 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 10:37:45
End at: 2020-04-16 10:38:15
Local clock offset: -0.029 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-04-16 14:35:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 441.72 Mbit/s
95th percentile per-packet one-way delay: 114.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 263.36 Mbit/s
95th percentile per-packet one-way delay: 114.808 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 251.27 Mbit/s
95th percentile per-packet one-way delay: 108.371 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 113.445 ms
Loss rate: 0.02%
Run 2: Report of Indigo-MusesC5 — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 263.35 Mbps)**
- **Flow 1 egress (mean 263.36 Mbps)**
- **Flow 2 ingress (mean 251.27 Mbps)**
- **Flow 2 egress (mean 251.27 Mbps)**
- **Flow 3 ingress (mean 81.66 Mbps)**
- **Flow 3 egress (mean 81.59 Mbps)**

---

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

- **Flow 1 (95th percentile 114.81 ms)**
- **Flow 2 (95th percentile 108.37 ms)**
- **Flow 3 (95th percentile 113.44 ms)**
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 11:18:57
End at: 2020-04-16 11:19:27
Local clock offset: -0.145 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2020-04-16 14:36:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 443.79 Mbit/s
95th percentile per-packet one-way delay: 120.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 257.62 Mbit/s
95th percentile per-packet one-way delay: 121.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 264.27 Mbit/s
95th percentile per-packet one-way delay: 118.702 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 110.937 ms
Loss rate: 0.01%
Run 3: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and packet delay over time for different flows.](image)
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-04-16 12:00:22
End at: 2020-04-16 12:00:52
Local clock offset: -0.075 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2020-04-16 14:37:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.65 Mbit/s
95th percentile per-packet one-way delay: 114.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.23 Mbit/s
95th percentile per-packet one-way delay: 115.382 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 293.04 Mbit/s
95th percentile per-packet one-way delay: 113.448 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.41 Mbit/s
95th percentile per-packet one-way delay: 110.240 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC5 — Data Link

![Graph of throughput and per-packet one-way delay for flows 1 to 3]

Legend:
- Flow 1 ingress (mean 250.22 Mbit/s)
- Flow 1 egress (mean 250.23 Mbit/s)
- Flow 2 ingress (mean 293.03 Mbit/s)
- Flow 2 egress (mean 293.04 Mbit/s)
- Flow 3 ingress (mean 87.40 Mbit/s)
- Flow 3 egress (mean 87.41 Mbit/s)
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-04-16 12:41:57
End at: 2020-04-16 12:42:27
Local clock offset: -0.112 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2020-04-16 14:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.60 Mbit/s
95th percentile per-packet one-way delay: 112.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.76 Mbit/s
95th percentile per-packet one-way delay: 114.104 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.20 Mbit/s
95th percentile per-packet one-way delay: 111.966 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 107.499 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 09:36:10
End at: 2020-04-16 09:36:40
Local clock offset: 0.459 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2020-04-16 14:42:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 449.94 Mbit/s
  95th percentile per-packet one-way delay: 112.308 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 290.27 Mbit/s
  95th percentile per-packet one-way delay: 108.216 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 229.66 Mbit/s
  95th percentile per-packet one-way delay: 113.070 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 74.00 Mbit/s
  95th percentile per-packet one-way delay: 107.217 ms
  Loss rate: 0.00%
Run 1: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 290.15 Mbit/s)
Flow 1 egress (mean 290.27 Mbit/s)
Flow 2 ingress (mean 229.66 Mbit/s)
Flow 2 egress (mean 229.66 Mbit/s)
Flow 3 ingress (mean 74.00 Mbit/s)
Flow 3 egress (mean 74.00 Mbit/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 108.22 ms)
Flow 2 (95th percentile 113.07 ms)
Flow 3 (95th percentile 107.22 ms)
Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 10:17:28
End at: 2020-04-16 10:17:58
Local clock offset: 0.223 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2020-04-16 14:43:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.74 Mbit/s
95th percentile per-packet one-way delay: 112.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 305.15 Mbit/s
95th percentile per-packet one-way delay: 113.091 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 183.58 Mbit/s
95th percentile per-packet one-way delay: 110.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 66.63 Mbit/s
95th percentile per-packet one-way delay: 107.529 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 305.14 Mbps)
- **Flow 1 egress** (mean 305.15 Mbps)
- **Flow 2 ingress** (mean 183.58 Mbps)
- **Flow 2 egress** (mean 183.58 Mbps)
- **Flow 3 ingress** (mean 66.63 Mbps)
- **Flow 3 egress** (mean 66.63 Mbps)

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

- **Flow 1** (95th percentile 113.09 ms)
- **Flow 2** (95th percentile 110.92 ms)
- **Flow 3** (95th percentile 107.53 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 10:58:57
End at: 2020-04-16 10:59:27
Local clock offset: -0.529 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2020-04-16 14:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 464.29 Mbit/s
95th percentile per-packet one-way delay: 113.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.48 Mbit/s
95th percentile per-packet one-way delay: 110.555 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.66 Mbit/s
95th percentile per-packet one-way delay: 114.578 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 107.882 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesD — Data Link
Run 4: Statistics of Indigo-MusesD

Start at: 2020-04-16 11:40:20
End at: 2020-04-16 11:40:50
Local clock offset: -0.201 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2020-04-16 14:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 439.45 Mbit/s
95th percentile per-packet one-way delay: 113.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 286.61 Mbit/s
95th percentile per-packet one-way delay: 109.149 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 215.53 Mbit/s
95th percentile per-packet one-way delay: 113.916 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.34 Mbit/s
95th percentile per-packet one-way delay: 107.812 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesD — Data Link
Run 5: Statistics of Indigo-MusesD

Start at: 2020-04-16 12:21:49
End at: 2020-04-16 12:22:19
Local clock offset: -0.001 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2020-04-16 14:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 471.90 Mbit/s
95th percentile per-packet one-way delay: 110.043 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.82 Mbit/s
95th percentile per-packet one-way delay: 109.800 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 251.35 Mbit/s
95th percentile per-packet one-way delay: 108.985 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.54 Mbit/s
95th percentile per-packet one-way delay: 110.624 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

![Graph showing throughput and packet delay for different flows.](image-url)
Run 1: Statistics of Indigo-MusesT

Start at: 2020-04-16 09:39:29
End at: 2020-04-16 09:39:59
Local clock offset: -0.146 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2020-04-16 14:51:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 547.41 Mbit/s
95th percentile per-packet one-way delay: 111.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 353.35 Mbit/s
95th percentile per-packet one-way delay: 111.276 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 273.64 Mbit/s
95th percentile per-packet one-way delay: 110.975 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 92.42 Mbit/s
95th percentile per-packet one-way delay: 110.133 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 353.19 Mbit/s)
- Flow 1 egress (mean 353.35 Mbit/s)
- Flow 2 ingress (mean 273.55 Mbit/s)
- Flow 2 egress (mean 273.64 Mbit/s)
- Flow 3 ingress (mean 92.34 Mbit/s)
- Flow 3 egress (mean 92.42 Mbit/s)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-16 10:20:53
End at: 2020-04-16 10:21:23
Local clock offset: 0.137 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-16 14:51:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.16 Mbit/s
95th percentile per-packet one-way delay: 110.809 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 343.87 Mbit/s
95th percentile per-packet one-way delay: 112.022 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 267.11 Mbit/s
95th percentile per-packet one-way delay: 108.218 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 109.686 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesT — Data Link

![Throughput Graph]

- **Flow 1 ingress (mean 343.86 Mbit/s)**
- **Flow 1 egress (mean 343.87 Mbit/s)**
- **Flow 2 ingress (mean 267.11 Mbit/s)**
- **Flow 2 egress (mean 267.11 Mbit/s)**
- **Flow 3 ingress (mean 94.28 Mbit/s)**
- **Flow 3 egress (mean 94.29 Mbit/s)**

![Delay Graph]

- **Flow 1 (95th percentile 112.02 ms)**
- **Flow 2 (95th percentile 108.22 ms)**
- **Flow 3 (95th percentile 109.69 ms)**

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Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-16 11:02:30
End at: 2020-04-16 11:03:00
Local clock offset: 0.174 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2020-04-16 14:53:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 506.50 Mbit/s
  95th percentile per-packet one-way delay: 111.635 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 311.83 Mbit/s
  95th percentile per-packet one-way delay: 112.548 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 277.15 Mbit/s
  95th percentile per-packet one-way delay: 108.622 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 95.84 Mbit/s
  95th percentile per-packet one-way delay: 110.650 ms
  Loss rate: 0.00%
Run 3: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 311.82 Mbit/s)
- Flow 1 egress (mean 311.83 Mbit/s)
- Flow 2 ingress (mean 277.15 Mbit/s)
- Flow 2 egress (mean 277.15 Mbit/s)
- Flow 3 ingress (mean 95.79 Mbit/s)
- Flow 3 egress (mean 95.84 Mbit/s)
Run 4: Statistics of Indigo-MusesT

Start at: 2020-04-16 11:43:46
End at: 2020-04-16 11:44:16
Local clock offset: 0.582 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-04-16 14:56:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 528.63 Mbit/s
95th percentile per-packet one-way delay: 113.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 333.90 Mbit/s
95th percentile per-packet one-way delay: 114.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 276.25 Mbit/s
95th percentile per-packet one-way delay: 112.974 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 112.195 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesT — Data Link
Run 5: Statistics of Indigo-MusesT

Start at: 2020-04-16 12:25:12
End at: 2020-04-16 12:25:42
Local clock offset: -0.095 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-04-16 14:57:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 527.98 Mbit/s
95th percentile per-packet one-way delay: 112.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 336.06 Mbit/s
95th percentile per-packet one-way delay: 113.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 266.69 Mbit/s
95th percentile per-packet one-way delay: 111.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 107.601 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesT — Data Link

![Graph of throughput and delay over time.](image)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 336.06 Mbps)
  - Flow 1 egress (mean 336.06 Mbps)
  - Flow 2 ingress (mean 266.69 Mbps)
  - Flow 2 egress (mean 266.69 Mbps)
  - Flow 3 ingress (mean 96.01 Mbps)
  - Flow 3 egress (mean 96.01 Mbps)

- **Packet inter-arrival delay (ms):**
  - Flow 1 (95th percentile 113.24 ms)
  - Flow 2 (95th percentile 112.00 ms)
  - Flow 3 (95th percentile 107.60 ms)
Run 1: Statistics of LEDBAT

Start at: 2020-04-16 09:43:10
End at: 2020-04-16 09:43:40
Local clock offset: -0.982 ms
Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2020-04-16 14:57:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.23 Mbit/s
95th percentile per-packet one-way delay: 113.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 111.935 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 110.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 113.553 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

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

**Graph Details:**
- **Throughput:** Y-axis (Megabits per second)
- **Time (s):** X-axis (seconds)
- **Legend:**
  - Flow 1 ingress (mean 7.91 Mbit/s)
  - Flow 1 egress (mean 7.91 Mbit/s)
  - Flow 2 ingress (mean 5.32 Mbit/s)
  - Flow 2 egress (mean 5.32 Mbit/s)
  - Flow 3 ingress (mean 2.44 Mbit/s)
  - Flow 3 egress (mean 2.44 Mbit/s)
  - Flow 1 (95th percentile 111.94 ms)
  - Flow 2 (95th percentile 110.78 ms)
  - Flow 3 (95th percentile 113.55 ms)
Run 2: Statistics of LEDBAT

Start at: 2020-04-16 10:24:36
End at: 2020-04-16 10:25:06
Local clock offset: 0.037 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2020-04-16 14:57:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 110.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 107.943 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 110.615 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 110.721 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2020-04-16 11:05:55
End at: 2020-04-16 11:06:25
Local clock offset: 0.416 ms
Remote clock offset: 0.226 ms

# Below is generated by plot.py at 2020-04-16 14:57:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.96 Mbit/s
  95th percentile per-packet one-way delay: 110.013 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.52 Mbit/s
  95th percentile per-packet one-way delay: 110.162 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 5.48 Mbit/s
  95th percentile per-packet one-way delay: 106.663 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 2.52 Mbit/s
  95th percentile per-packet one-way delay: 107.204 ms
  Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Graph showing throughput and delay over time for three flows with different mean throughputs. The graphs depict the performance metrics for Flow 1, Flow 2, and Flow 3, with clear differentiation in throughput and delay characteristics.](image-url)
Run 4: Statistics of LEDBAT

Start at: 2020-04-16 11:47:17
End at: 2020-04-16 11:47:47
Local clock offset: 1.176 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2020-04-16 14:57:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.94 Mbit/s
  95th percentile per-packet one-way delay: 109.553 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.71 Mbit/s
  95th percentile per-packet one-way delay: 109.747 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 5.14 Mbit/s
  95th percentile per-packet one-way delay: 108.407 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 2.57 Mbit/s
  95th percentile per-packet one-way delay: 106.589 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2020-04-16 12:28:55
End at: 2020-04-16 12:29:25
Local clock offset: -0.045 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2020-04-16 14:57:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.66 Mbit/s
  95th percentile per-packet one-way delay: 113.044 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 7.57 Mbit/s
  95th percentile per-packet one-way delay: 113.130 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 4.90 Mbit/s
  95th percentile per-packet one-way delay: 112.998 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 2.56 Mbit/s
  95th percentile per-packet one-way delay: 110.697 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

![Graph showing throughput and delay for three flows]

- Flow 1 ingress (mean 7.57 Mbps)
- Flow 1 egress (mean 7.57 Mbps)
- Flow 2 ingress (mean 4.90 Mbps)
- Flow 2 egress (mean 4.90 Mbps)
- Flow 3 ingress (mean 2.56 Mbps)
- Flow 3 egress (mean 2.56 Mbps)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 09:54:32
End at: 2020-04-16 09:55:02
Local clock offset: 0.902 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2020-04-16 14:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 451.42 Mbit/s
95th percentile per-packet one-way delay: 109.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 256.91 Mbit/s
95th percentile per-packet one-way delay: 108.944 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 214.63 Mbit/s
95th percentile per-packet one-way delay: 109.644 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.83 Mbit/s
95th percentile per-packet one-way delay: 109.779 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 10:35:58
End at: 2020-04-16 10:36:28
Local clock offset: 0.473 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2020-04-16 15:00:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 490.22 Mbit/s
95th percentile per-packet one-way delay: 108.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 304.51 Mbit/s
95th percentile per-packet one-way delay: 108.640 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.97 Mbit/s
95th percentile per-packet one-way delay: 107.102 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 155.28 Mbit/s
95th percentile per-packet one-way delay: 107.802 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTree — Data Link
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 11:17:09  
End at: 2020-04-16 11:17:39  
Local clock offset: 1.107 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2020-04-16 15:03:13  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 516.12 Mbit/s  
95th percentile per-packet one-way delay: 112.622 ms  
Loss rate: 0.00%

-- Flow 1:  
Average throughput: 300.91 Mbit/s  
95th percentile per-packet one-way delay: 114.030 ms  
Loss rate: 0.00%

-- Flow 2:  
Average throughput: 238.33 Mbit/s  
95th percentile per-packet one-way delay: 109.962 ms  
Loss rate: 0.00%

-- Flow 3:  
Average throughput: 181.60 Mbit/s  
95th percentile per-packet one-way delay: 108.983 ms  
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 11:58:33
End at: 2020-04-16 11:59:03
Local clock offset: -0.05 ms
Remote clock offset: 0.338 ms

# Below is generated by plot.py at 2020-04-16 15:06:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.17 Mbit/s
95th percentile per-packet one-way delay: 119.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 321.32 Mbit/s
95th percentile per-packet one-way delay: 121.820 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 242.03 Mbit/s
95th percentile per-packet one-way delay: 108.241 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 98.09 Mbit/s
95th percentile per-packet one-way delay: 110.450 ms
Loss rate: 0.00%
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 12:40:10
End at: 2020-04-16 12:40:40
Local clock offset: -1.293 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2020-04-16 15:06:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 488.76 Mbit/s
  95th percentile per-packet one-way delay: 110.832 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 290.26 Mbit/s
  95th percentile per-packet one-way delay: 110.895 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 230.90 Mbit/s
  95th percentile per-packet one-way delay: 109.230 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 146.32 Mbit/s
  95th percentile per-packet one-way delay: 111.576 ms
  Loss rate: 0.00%
Run 5: Report of Muses

Decision Tree — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 290.24 Mbps)
- **Flow 1 egress** (mean 290.26 Mbps)
- **Flow 2 ingress** (mean 230.90 Mbps)
- **Flow 2 egress** (mean 230.90 Mbps)
- **Flow 3 ingress** (mean 146.31 Mbps)
- **Flow 3 egress** (mean 146.32 Mbps)

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

- **Flow 1** (95th percentile 110.89 ms)
- **Flow 2** (95th percentile 109.23 ms)
- **Flow 3** (95th percentile 111.58 ms)

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Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 09:32:38
End at: 2020-04-16 09:33:08
Local clock offset: -0.375 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2020-04-16 15:06:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.43 Mbit/s
95th percentile per-packet one-way delay: 110.761 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.80 Mbit/s
95th percentile per-packet one-way delay: 111.131 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.61 Mbit/s
95th percentile per-packet one-way delay: 108.300 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 155.70 Mbit/s
95th percentile per-packet one-way delay: 110.752 ms
Loss rate: 0.00%
Run 1: Report of Muses\_Decision\_Tree\_H0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 10:13:53
End at: 2020-04-16 10:14:23
Local clock offset: -0.103 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2020-04-16 15:11:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.97 Mbit/s
95th percentile per-packet one-way delay: 113.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 291.97 Mbit/s
95th percentile per-packet one-way delay: 115.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 258.02 Mbit/s
95th percentile per-packet one-way delay: 112.837 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 178.08 Mbit/s
95th percentile per-packet one-way delay: 114.406 ms
Loss rate: 0.04%
Run 2: Report of Muses_DecisionTreeH0 — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 291.96 Mbps)
- Flow 1 egress (mean 291.97 Mbps)
- Flow 2 ingress (mean 258.02 Mbps)
- Flow 2 egress (mean 258.02 Mbps)
- Flow 3 ingress (mean 176.12 Mbps)
- Flow 3 egress (mean 176.08 Mbps)

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

- Flow 1 (95th percentile 115.09 ms)
- Flow 2 (95th percentile 112.84 ms)
- Flow 3 (95th percentile 114.41 ms)
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 10:55:18
End at: 2020-04-16 10:55:48
Local clock offset: -0.023 ms
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2020-04-16 15:13:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.21 Mbit/s
95th percentile per-packet one-way delay: 130.217 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 298.27 Mbit/s
95th percentile per-packet one-way delay: 139.188 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 282.09 Mbit/s
95th percentile per-packet one-way delay: 114.570 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 147.12 Mbit/s
95th percentile per-packet one-way delay: 111.104 ms
Loss rate: 0.01%
Run 3: Report of Muses.DecisionTreeH0 — Data Link

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

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Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 11:36:44
End at: 2020-04-16 11:37:14
Local clock offset: 1.269 ms
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2020-04-16 15:14:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 521.43 Mbit/s
95th percentile per-packet one-way delay: 129.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 299.99 Mbit/s
95th percentile per-packet one-way delay: 134.377 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 250.43 Mbit/s
95th percentile per-packet one-way delay: 113.224 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 185.75 Mbit/s
95th percentile per-packet one-way delay: 112.171 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 299.99 Mbit/s)
- Flow 1 egress (mean 299.99 Mbit/s)
- Flow 2 ingress (mean 250.43 Mbit/s)
- Flow 2 egress (mean 250.43 Mbit/s)
- Flow 3 ingress (mean 185.77 Mbit/s)
- Flow 3 egress (mean 185.75 Mbit/s)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 12:18:04
End at: 2020-04-16 12:18:34
Local clock offset: -0.177 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2020-04-16 15:16:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 545.51 Mbit/s
95th percentile per-packet one-way delay: 129.394 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 340.06 Mbit/s
95th percentile per-packet one-way delay: 131.942 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 240.25 Mbit/s
95th percentile per-packet one-way delay: 115.848 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.30 Mbit/s
95th percentile per-packet one-way delay: 112.312 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

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

- **Flow 1**: Ingress (mean 340.27 Mbps), Egress (mean 340.06 Mbps)
- **Flow 2**: Ingress (mean 240.24 Mbps), Egress (mean 240.25 Mbps)
- **Flow 3**: Ingress (mean 148.30 Mbps), Egress (mean 148.30 Mbps)

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

- **Flow 1**: 95th percentile 131.94 ms
- **Flow 2**: 95th percentile 115.85 ms
- **Flow 3**: 95th percentile 113.31 ms
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 09:30:51
End at: 2020-04-16 09:31:21
Local clock offset: -0.165 ms
Remote clock offset: 0.378 ms

# Below is generated by plot.py at 2020-04-16 15:18:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 519.28 Mbit/s
  95th percentile per-packet one-way delay: 116.816 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 319.58 Mbit/s
  95th percentile per-packet one-way delay: 118.565 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 220.05 Mbit/s
  95th percentile per-packet one-way delay: 110.153 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 166.43 Mbit/s
  95th percentile per-packet one-way delay: 111.405 ms
  Loss rate: 0.00%
Run 1: Report of Muses

Decision Tree R0 — Data Link

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

- Flow 1 ingress (mean 319.48 Mbit/s)
- Flow 1 egress (mean 319.58 Mbit/s)
- Flow 2 ingress (mean 220.05 Mbit/s)
- Flow 2 egress (mean 220.05 Mbit/s)
- Flow 3 ingress (mean 166.43 Mbit/s)
- Flow 3 egress (mean 166.43 Mbit/s)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 10:12:18  
End at: 2020-04-16 10:12:48  
Local clock offset: 0.799 ms  
Remote clock offset: 0.044 ms  

# Below is generated by plot.py at 2020-04-16 15:18:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 307.22 Mbit/s  
95th percentile per-packet one-way delay: 112.116 ms  
Loss rate: 0.00%  

-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 109.310 ms  
Loss rate: 0.00%  

-- Flow 2:  
Average throughput: 346.91 Mbit/s  
95th percentile per-packet one-way delay: 110.295 ms  
Loss rate: 0.00%  

-- Flow 3:  
Average throughput: 244.09 Mbit/s  
95th percentile per-packet one-way delay: 112.660 ms  
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeR0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 10:53:30
End at: 2020-04-16 10:54:00
Local clock offset: 0.778 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2020-04-16 15:20:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 490.27 Mbit/s
  95th percentile per-packet one-way delay: 108.836 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 296.50 Mbit/s
  95th percentile per-packet one-way delay: 109.110 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 226.77 Mbit/s
  95th percentile per-packet one-way delay: 108.336 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 139.41 Mbit/s
  95th percentile per-packet one-way delay: 106.182 ms
  Loss rate: 0.00%
Run 3: Report of Muses_DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 11:34:54
End at: 2020-04-16 11:35:24
Local clock offset: -1.404 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2020-04-16 15:22:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 539.26 Mbit/s
95th percentile per-packet one-way delay: 120.658 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 329.37 Mbit/s
95th percentile per-packet one-way delay: 124.285 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 241.71 Mbit/s
95th percentile per-packet one-way delay: 110.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 159.41 Mbit/s
95th percentile per-packet one-way delay: 108.976 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

![Graph showing network throughput and latency over time]
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 12:16:16
End at: 2020-04-16 12:16:46
Local clock offset: -0.053 ms
Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2020-04-16 15:25:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 495.60 Mbit/s
  95th percentile per-packet one-way delay: 109.898 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 317.03 Mbit/s
  95th percentile per-packet one-way delay: 109.330 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 202.18 Mbit/s
  95th percentile per-packet one-way delay: 110.257 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 141.08 Mbit/s
  95th percentile per-packet one-way delay: 107.980 ms
  Loss rate: 0.00%
Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 10:00:13
End at: 2020-04-16 10:00:43
Local clock offset: 0.039 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2020-04-16 15:46:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.12 Mbit/s
95th percentile per-packet one-way delay: 194.729 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 331.52 Mbit/s
95th percentile per-packet one-way delay: 187.483 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 292.56 Mbit/s
95th percentile per-packet one-way delay: 210.818 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 216.54 Mbit/s
95th percentile per-packet one-way delay: 185.256 ms
Loss rate: 0.77%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 10:41:40
End at: 2020-04-16 10:42:10
Local clock offset: -0.095 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2020-04-16 15:47:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.40 Mbit/s
95th percentile per-packet one-way delay: 144.784 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 324.90 Mbit/s
95th percentile per-packet one-way delay: 134.849 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 301.37 Mbit/s
95th percentile per-packet one-way delay: 165.518 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 227.99 Mbit/s
95th percentile per-packet one-way delay: 113.771 ms
Loss rate: 0.01%
Run 2: Report of PCC-Allegro — Data Link

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**Diagram 1:**
- **Throughput (Mbps):**
  - Flow 1 ingress (mean 324.89 Mbps)
  - Flow 1 egress (mean 324.90 Mbps)
  - Flow 2 ingress (mean 301.80 Mbps)
  - Flow 2 egress (mean 301.37 Mbps)
  - Flow 3 ingress (mean 226.01 Mbps)
  - Flow 3 egress (mean 227.99 Mbps)

**Diagram 2:**
- **Per-packet one way delay (ms):**
  - Flow 1 (95th percentile 134.85 ms)
  - Flow 2 (95th percentile 165.52 ms)
  - Flow 3 (95th percentile 113.77 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 11:22:51
End at: 2020-04-16 11:23:21
Local clock offset: 1.103 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2020-04-16 15:47:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 552.52 Mbit/s
  95th percentile per-packet one-way delay: 145.827 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 306.41 Mbit/s
  95th percentile per-packet one-way delay: 153.175 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 261.03 Mbit/s
  95th percentile per-packet one-way delay: 120.903 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 220.99 Mbit/s
  95th percentile per-packet one-way delay: 111.875 ms
  Loss rate: 0.00%
Run 3: Report of PCC-Allegro — Data Link

![Graph showing network performance metrics over time.]

- Flow 1 ingress (mean 306.40 Mbit/s)
- Flow 1 egress (mean 306.41 Mbit/s)
- Flow 2 ingress (mean 261.03 Mbit/s)
- Flow 2 egress (mean 261.03 Mbit/s)
- Flow 3 ingress (mean 220.99 Mbit/s)
- Flow 3 egress (mean 220.99 Mbit/s)

![Graph showing packet delay variations over time.]

- Flow 1 (95th percentile 153.18 ms)
- Flow 2 (95th percentile 120.90 ms)
- Flow 3 (95th percentile 111.88 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2020-04-16 12:04:16
End at: 2020-04-16 12:04:46
Local clock offset: 0.249 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2020-04-16 15:47:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 561.68 Mbit/s
95th percentile per-packet one-way delay: 220.370 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 310.66 Mbit/s
95th percentile per-packet one-way delay: 226.714 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 264.51 Mbit/s
95th percentile per-packet one-way delay: 155.817 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 230.42 Mbit/s
95th percentile per-packet one-way delay: 197.264 ms
Loss rate: 0.02%
Run 5: Statistics of PCC-Allegro

Start at: 2020-04-16 12:45:45
End at: 2020-04-16 12:46:15
Local clock offset: -0.177 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-04-16 15:51:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 616.50 Mbit/s
  95th percentile per-packet one-way delay: 234.983 ms
  Loss rate: 1.27%
-- Flow 1:
  Average throughput: 371.80 Mbit/s
  95th percentile per-packet one-way delay: 243.105 ms
  Loss rate: 2.09%
-- Flow 2:
  Average throughput: 259.82 Mbit/s
  95th percentile per-packet one-way delay: 121.165 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 218.29 Mbit/s
  95th percentile per-packet one-way delay: 115.520 ms
  Loss rate: 0.00%
Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 09:50:04
End at: 2020-04-16 09:50:34
Local clock offset: 0.058 ms
Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2020-04-16 15:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.96 Mbit/s
95th percentile per-packet one-way delay: 108.178 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.28 Mbit/s
95th percentile per-packet one-way delay: 108.036 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.01 Mbit/s
95th percentile per-packet one-way delay: 108.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 149.64 Mbit/s
95th percentile per-packet one-way delay: 108.378 ms
Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 10:31:24
End at: 2020-04-16 10:31:54
Local clock offset: 0.138 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2020-04-16 15:51:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 421.65 Mbit/s
  95th percentile per-packet one-way delay: 138.353 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 249.83 Mbit/s
  95th percentile per-packet one-way delay: 196.155 ms
  Loss rate: 0.20%
-- Flow 2:
  Average throughput: 181.75 Mbit/s
  95th percentile per-packet one-way delay: 117.404 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 154.93 Mbit/s
  95th percentile per-packet one-way delay: 111.967 ms
  Loss rate: 0.00%
Run 2: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 250.34 Mbit/s)**
- **Flow 1 egress (mean 249.83 Mbit/s)**
- **Flow 2 ingress (mean 181.75 Mbit/s)**
- **Flow 2 egress (mean 181.75 Mbit/s)**
- **Flow 3 ingress (mean 154.93 Mbit/s)**
- **Flow 3 egress (mean 154.93 Mbit/s)**

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

- **Flow 1 (95th percentile 196.16 ms)**
- **Flow 2 (95th percentile 117.40 ms)**
- **Flow 3 (95th percentile 111.97 ms)**
Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 11:12:39
End at: 2020-04-16 11:13:09
Local clock offset: -1.33 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2020-04-16 15:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 364.49 Mbit/s
95th percentile per-packet one-way delay: 119.090 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 195.10 Mbit/s
95th percentile per-packet one-way delay: 120.473 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 177.54 Mbit/s
95th percentile per-packet one-way delay: 112.180 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 156.14 Mbit/s
95th percentile per-packet one-way delay: 113.818 ms
Loss rate: 0.27%
Run 3: Report of PCC-Expr — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 195.09 Mbps)
- Flow 1 egress (mean 195.10 Mbps)
- Flow 2 ingress (mean 177.65 Mbps)
- Flow 2 egress (mean 177.54 Mbps)
- Flow 3 ingress (mean 156.23 Mbps)
- Flow 3 egress (mean 156.14 Mbps)

Delay (ms):

- Flow 1 (95th percentile 120.47 ms)
- Flow 2 (95th percentile 112.18 ms)
- Flow 3 (95th percentile 113.02 ms)
Run 4: Statistics of PCC-Expr

Start at: 2020-04-16 11:54:03
End at: 2020-04-16 11:54:33
Local clock offset: -1.416 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-16 15:58:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 372.44 Mbit/s
  95th percentile per-packet one-way delay: 126.167 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 197.41 Mbit/s
  95th percentile per-packet one-way delay: 128.941 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 190.53 Mbit/s
  95th percentile per-packet one-way delay: 139.139 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 147.38 Mbit/s
  95th percentile per-packet one-way delay: 113.636 ms
  Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link

![Graph of Throughput and Latency for Flows 1 to 3]

- Flow 1 ingress (mean 197.40 Mbit/s) vs. egress (mean 197.41 Mbit/s)
- Flow 2 ingress (mean 190.55 Mbit/s) vs. egress (mean 190.53 Mbit/s)
- Flow 3 ingress (mean 147.38 Mbit/s) vs. egress (mean 147.38 Mbit/s)

![Graph of Per-packet One-Way Delay for Flows 1 to 3]

- Flow 1 (95th percentile 128.94 ms)
- Flow 2 (95th percentile 139.14 ms)
- Flow 3 (95th percentile 113.64 ms)
Run 5: Statistics of PCC-Expr

Start at: 2020-04-16 12:35:43
End at: 2020-04-16 12:36:13
Local clock offset: -0.028 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 346.21 Mbit/s
95th percentile per-packet one-way delay: 115.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.29 Mbit/s
95th percentile per-packet one-way delay: 114.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.04 Mbit/s
95th percentile per-packet one-way delay: 115.938 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.82 Mbit/s
95th percentile per-packet one-way delay: 113.870 ms
Loss rate: 0.03%
Run 5: Report of PCC-Expr — Data Link

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Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 10:04:07
End at: 2020-04-16 10:04:37
Local clock offset: 0.83 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.65 Mbit/s
95th percentile per-packet one-way delay: 109.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.90 Mbit/s
95th percentile per-packet one-way delay: 108.454 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.29 Mbit/s
95th percentile per-packet one-way delay: 106.267 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.29 Mbit/s
95th percentile per-packet one-way delay: 109.364 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 10:45:28
End at: 2020-04-16 10:45:58
Local clock offset: 0.002 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.77 Mbit/s
95th percentile per-packet one-way delay: 109.666 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.37 Mbit/s
95th percentile per-packet one-way delay: 106.837 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 55.16 Mbit/s
95th percentile per-packet one-way delay: 109.758 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.73 Mbit/s
95th percentile per-packet one-way delay: 109.528 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 11:26:46
End at: 2020-04-16 11:27:16
Local clock offset: -1.375 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.25 Mbit/s
95th percentile per-packet one-way delay: 113.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 113.647 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 111.267 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.66 Mbit/s
95th percentile per-packet one-way delay: 107.494 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 52.52 Mbit/s)
- Flow 1 egress (mean 52.53 Mbit/s)
- Flow 2 ingress (mean 47.33 Mbit/s)
- Flow 2 egress (mean 47.33 Mbit/s)
- Flow 3 ingress (mean 53.66 Mbit/s)
- Flow 3 egress (mean 53.66 Mbit/s)

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

- Flow 1 (95th percentile 113.65 ms)
- Flow 2 (95th percentile 111.27 ms)
- Flow 3 (95th percentile 107.49 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2020-04-16 12:08:09
End at: 2020-04-16 12:08:39
Local clock offset: -0.063 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.61 Mbit/s
95th percentile per-packet one-way delay: 109.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 109.245 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 106.201 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.10 Mbit/s
95th percentile per-packet one-way delay: 107.029 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

---

**Network Throughput Analysis**

![Graph showing network throughput for different flows]

- **Flow 1**: Ingress (mean 50.27 Mbit/s), Egress (mean 50.27 Mbit/s)
- **Flow 2**: Ingress (mean 32.40 Mbit/s), Egress (mean 32.40 Mbit/s)
- **Flow 3**: Ingress (mean 61.10 Mbit/s), Egress (mean 61.10 Mbit/s)

---

**Per-packet round-trip delay analysis**

![Graph showing per-packet round-trip delay for different flows]

- **Flow 1**: 95th percentile 109.25 ms
- **Flow 2**: 95th percentile 106.20 ms
- **Flow 3**: 95th percentile 107.03 ms
Run 5: Statistics of QUIC Cubic

Start at: 2020-04-16 12:49:38  
End at: 2020-04-16 12:50:08  
Local clock offset: 0.057 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2020-04-16 16:03:19  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 108.92 Mbit/s
  95th percentile per-packet one-way delay: 108.860 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 56.17 Mbit/s
  95th percentile per-packet one-way delay: 106.150 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 52.80 Mbit/s
  95th percentile per-packet one-way delay: 108.954 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 54.62 Mbit/s
  95th percentile per-packet one-way delay: 106.928 ms
  Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2020-04-16 09:51:59
End at: 2020-04-16 09:52:29
Local clock offset: -0.061 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 110.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.994 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.271 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.088 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2020-04-16 10:33:25
End at: 2020-04-16 10:33:55
Local clock offset: 0.052 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 109.788 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 112.114 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 106.763 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 109.770 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph showing network performance metrics over time. The graphs depict throughput and packet delay over a 30-second period for three different flows, each with distinct mean bandwidths.]
Run 3: Statistics of SCReAM

Start at: 2020-04-16 11:14:36
End at: 2020-04-16 11:15:06
Local clock offset: 0.007 ms
Remote clock offset: 0.221 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.39 Mbit/s
  95th percentile per-packet one-way delay: 110.378 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 107.448 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 110.422 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 109.529 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 0.17 Mbit/s)
Flow 1 egress (mean 0.17 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)

Delay (ms)

Time (s)

Flow 1 (95th percentile 107.45 ms)
Flow 2 (95th percentile 110.42 ms)
Flow 3 (95th percentile 109.53 ms)
Run 4: Statistics of SCReAM

Start at: 2020-04-16 11:56:00
End at: 2020-04-16 11:56:30
Local clock offset: -0.09 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 110.220 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 107.145 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 110.264 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 109.141 ms
  Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

Throughput (Mbps)

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

Per packet one-way delay (ms)

Flow 1 (95th percentile 107.14 ms) — Flow 2 (95th percentile 110.26 ms) — Flow 3 (95th percentile 109.14 ms)
Run 5: Statistics of SCReAM

Start at: 2020-04-16 12:37:37
End at: 2020-04-16 12:38:07
Local clock offset: -0.819 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 113.054 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.022 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.563 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

Throughput (Mb/s)

Time (s)

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

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 111.02 ms)
Flow 2 (95th percentile 113.14 ms)
Flow 3 (95th percentile 109.56 ms)
Run 1: Statistics of Sprout

Start at: 2020-04-16 10:05:32
End at: 2020-04-16 10:06:02
Local clock offset: -0.115 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 110.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 107.289 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 109.765 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 111.450 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph showing data link performance over time for different flows.]
Run 2: Statistics of Sprout

Start at: 2020-04-16 10:46:53
End at: 2020-04-16 10:47:23
Local clock offset: -0.098 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 113.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 113.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 110.221 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 109.889 ms
Loss rate: 0.00%
Run 3: Statistics of Sprout

Start at: 2020-04-16 11:28:11
End at: 2020-04-16 11:28:41
Local clock offset: -0.049 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics

-- Total of 3 flows:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 110.541 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 110.510 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 110.800 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 106.305 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2020-04-16 12:09:33
End at: 2020-04-16 12:10:03
Local clock offset: -0.012 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.02 Mbit/s
95th percentile per-packet one-way delay: 110.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 110.968 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 107.182 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 107.000 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2020-04-16 12:51:03
End at: 2020-04-16 12:51:33
Local clock offset: -1.351 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-04-16 16:03:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 114.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 107.790 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 112.188 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 114.394 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 09:41:17
End at: 2020-04-16 09:41:47
Local clock offset: -0.219 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2020-04-16 16:06:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 321.24 Mbit/s
  95th percentile per-packet one-way delay: 113.014 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 189.53 Mbit/s
  95th percentile per-packet one-way delay: 107.856 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 190.05 Mbit/s
  95th percentile per-packet one-way delay: 113.906 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 15.25 Mbit/s
  95th percentile per-packet one-way delay: 112.688 ms
  Loss rate: 0.01%
Run 1: Report of TaoVA-100x — Data Link

---

**Graph 1:**
- Flow 1 ingress (mean 189.52 Mbit/s)
- Flow 1 egress (mean 189.53 Mbit/s)
- Flow 2 ingress (mean 190.04 Mbit/s)
- Flow 2 egress (mean 190.05 Mbit/s)
- Flow 3 ingress (mean 15.24 Mbit/s)
- Flow 3 egress (mean 15.25 Mbit/s)

**Graph 2:**
- Flow 1 (95th percentile 107.96 ms)
- Flow 2 (95th percentile 113.91 ms)
- Flow 3 (95th percentile 112.69 ms)

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Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 10:22:41
End at: 2020-04-16 10:23:11
Local clock offset: -0.024 ms
Remote clock offset: -0.418 ms

# Below is generated by plot.py at 2020-04-16 16:08:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 345.95 Mbit/s
95th percentile per-packet one-way delay: 113.048 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.03 Mbit/s
95th percentile per-packet one-way delay: 110.888 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.60 Mbit/s
95th percentile per-packet one-way delay: 113.565 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.80 Mbit/s
95th percentile per-packet one-way delay: 117.595 ms
Loss rate: 0.02%
Run 2: Report of TaoVA-100x — Data Link

![Graph 1: Throughput vs Time]

- **Flow 1 ingress** (mean 184.04 Mbit/s)
- **Flow 1 egress** (mean 184.03 Mbit/s)
- **Flow 2 ingress** (mean 173.61 Mbit/s)
- **Flow 2 egress** (mean 173.60 Mbit/s)
- **Flow 3 ingress** (mean 139.81 Mbit/s)
- **Flow 3 egress** (mean 139.80 Mbit/s)

![Graph 2: Per_packet_one-way_delay vs Time]

- **Flow 1** (99th percentile 110.89 ms)
- **Flow 2** (99th percentile 113.56 ms)
- **Flow 3** (99th percentile 117.59 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 11:04:16
End at: 2020-04-16 11:04:46
Local clock offset: -0.079 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2020-04-16 16:08:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 182.62 Mbit/s
  95th percentile per-packet one-way delay: 111.263 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 15.87 Mbit/s
  95th percentile per-packet one-way delay: 110.233 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 176.83 Mbit/s
  95th percentile per-packet one-way delay: 110.542 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 147.45 Mbit/s
  95th percentile per-packet one-way delay: 112.463 ms
  Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

![Graph showing network throughput and latency over time for different flows.](image-url)
Run 4: Statistics of TaoVA-100x

Start at: 2020-04-16 11:45:33
End at: 2020-04-16 11:46:03
Local clock offset: -0.156 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2020-04-16 16:08:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 240.38 Mbit/s
  95th percentile per-packet one-way delay: 112.919 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 182.96 Mbit/s
  95th percentile per-packet one-way delay: 108.071 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 15.78 Mbit/s
  95th percentile per-packet one-way delay: 107.012 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 141.33 Mbit/s
  95th percentile per-packet one-way delay: 114.805 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2020-04-16 12:26:59
End at: 2020-04-16 12:27:29
Local clock offset: 0.069 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2020-04-16 16:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.73 Mbit/s
95th percentile per-packet one-way delay: 109.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.78 Mbit/s
95th percentile per-packet one-way delay: 108.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 164.07 Mbit/s
95th percentile per-packet one-way delay: 108.311 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.12 Mbit/s
95th percentile per-packet one-way delay: 112.026 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link

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

<table>
<thead>
<tr>
<th>Flow</th>
<th>Ingress Throughput (mean)</th>
<th>Egress Throughput (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>184.78 Mb/s</td>
<td>184.78 Mb/s</td>
</tr>
<tr>
<td>2</td>
<td>164.08 Mb/s</td>
<td>164.07 Mb/s</td>
</tr>
<tr>
<td>3</td>
<td>135.12 Mb/s</td>
<td>135.12 Mb/s</td>
</tr>
</tbody>
</table>

![Per-packet one-way delay graph for different flows.]

<table>
<thead>
<tr>
<th>Flow</th>
<th>95th Percentile Delay (ms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>108.38 ms</td>
</tr>
<tr>
<td>2</td>
<td>108.31 ms</td>
</tr>
<tr>
<td>3</td>
<td>112.03 ms</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 09:29:07
End at: 2020-04-16 09:29:37
Local clock offset: -1.398 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2020-04-16 16:08:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.28 Mbit/s
95th percentile per-packet one-way delay: 110.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.75 Mbit/s
95th percentile per-packet one-way delay: 108.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 240.52 Mbit/s
95th percentile per-packet one-way delay: 111.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 183.95 Mbit/s
95th percentile per-packet one-way delay: 112.712 ms
Loss rate: 0.00%
Run 1: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 200.75 Mbit/s)
- Flow 1 egress (mean 200.75 Mbit/s)
- Flow 2 ingress (mean 240.52 Mbit/s)
- Flow 2 egress (mean 240.52 Mbit/s)
- Flow 3 ingress (mean 183.95 Mbit/s)
- Flow 3 egress (mean 183.95 Mbit/s)

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

- Flow 1 (95th percentile 108.56 ms)
- Flow 2 (95th percentile 111.17 ms)
- Flow 3 (95th percentile 112.71 ms)
Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 10:10:23
End at: 2020-04-16 10:10:53
Local clock offset: -0.072 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2020-04-16 16:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 606.12 Mbit/s
95th percentile per-packet one-way delay: 111.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 373.85 Mbit/s
95th percentile per-packet one-way delay: 111.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 241.74 Mbit/s
95th percentile per-packet one-way delay: 110.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 214.71 Mbit/s
95th percentile per-packet one-way delay: 112.987 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 373.84 Mbps) — Flow 1 egress (mean 373.85 Mbps)
Flow 2 ingress (mean 241.74 Mbps) — Flow 2 egress (mean 241.74 Mbps)
Flow 3 ingress (mean 214.71 Mbps) — Flow 3 egress (mean 214.71 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 111.53 ms) — Flow 2 (95th percentile 110.47 ms) — Flow 3 (95th percentile 112.99 ms)
Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 10:51:44
End at: 2020-04-16 10:52:14
Local clock offset: -0.017 ms
Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2020-04-16 16:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 454.07 Mbit/s
95th percentile per-packet one-way delay: 127.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.31 Mbit/s
95th percentile per-packet one-way delay: 106.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 300.38 Mbit/s
95th percentile per-packet one-way delay: 134.594 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 185.40 Mbit/s
95th percentile per-packet one-way delay: 118.942 ms
Loss rate: 0.00%
Run 3: Report of TCP Vegas — Data Link

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

Throughput (Mbps)

Time (s)

0 5 10 15 20 25 30

- Flow 1 ingress (mean 192.31 Mbps)
- Flow 1 egress (mean 192.31 Mbps)
- Flow 2 ingress (mean 300.38 Mbps)
- Flow 2 egress (mean 300.38 Mbps)
- Flow 3 ingress (mean 185.40 Mbps)
- Flow 3 egress (mean 185.40 Mbps)

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

Per-packet one-way delay (ms)

Time (s)

0 5 10 15 20 25 30

- Flow 1 (95th percentile 106.60 ms)
- Flow 2 (95th percentile 134.59 ms)
- Flow 3 (95th percentile 118.94 ms)
Run 4: Statistics of TCP Vegas

Start at: 2020-04-16 11:33:10
End at: 2020-04-16 11:33:40
Local clock offset: -0.131 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2020-04-16 16:17:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 410.04 Mbit/s
  95th percentile per-packet one-way delay: 111.782 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 183.57 Mbit/s
  95th percentile per-packet one-way delay: 110.468 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 245.35 Mbit/s
  95th percentile per-packet one-way delay: 107.742 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 189.87 Mbit/s
  95th percentile per-packet one-way delay: 117.495 ms
  Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2020-04-16 12:14:27
End at: 2020-04-16 12:14:57
Local clock offset: -1.352 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2020-04-16 16:17:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 486.08 Mbit/s
95th percentile per-packet one-way delay: 121.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.51 Mbit/s
95th percentile per-packet one-way delay: 111.409 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 312.14 Mbit/s
95th percentile per-packet one-way delay: 129.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 218.74 Mbit/s
95th percentile per-packet one-way delay: 113.560 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link

The upper graph illustrates throughput (Mbps) over time for three flows: Flow 1, Flow 2, and Flow 3. The throughput is measured as the mean rate of data transmission over a specific period, with Flow 1 having a mean of 205.52 Mbps, Flow 2 at 312.14 Mbps, and Flow 3 at 218.74 Mbps.

The lower graph shows the per-packet one-way delay (ms) for the same flows. The delays are depicted with markers for the 95th percentile: Flow 1 at 111.41 ms, Flow 2 at 129.58 ms, and Flow 3 at 113.56 ms.
Run 1: Statistics of Verus

Start at: 2020-04-16 09:37:53
End at: 2020-04-16 09:38:23
Local clock offset: -0.167 ms
Remote clock offset: 0.434 ms

# Below is generated by plot.py at 2020-04-16 16:17:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 164.74 Mbit/s
  95th percentile per-packet one-way delay: 198.731 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 104.82 Mbit/s
  95th percentile per-packet one-way delay: 216.890 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 63.54 Mbit/s
  95th percentile per-packet one-way delay: 144.349 ms
  Loss rate: 1.80%
-- Flow 3:
  Average throughput: 54.59 Mbit/s
  95th percentile per-packet one-way delay: 147.770 ms
  Loss rate: 0.00%
Run 1: Report of Verus — Data Link

![Graph showing network performance metrics over time](image1)

![Graph showing packet delay over time](image2)
Run 2: Statistics of Verus

Start at: 2020-04-16 10:19:12
End at: 2020-04-16 10:19:42
Local clock offset: 0.0 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2020-04-16 16:18:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.27 Mbit/s
95th percentile per-packet one-way delay: 159.401 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 135.69 Mbit/s
95th percentile per-packet one-way delay: 163.436 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 85.15 Mbit/s
95th percentile per-packet one-way delay: 155.023 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 141.861 ms
Loss rate: 0.00%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2020-04-16 11:00:44
End at: 2020-04-16 11:01:14
Local clock offset: -0.001 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2020-04-16 16:18:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 172.71 Mbit/s
95th percentile per-packet one-way delay: 200.516 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 139.92 Mbit/s
95th percentile per-packet one-way delay: 209.015 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 113.685 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 113.571 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

![Graph of network throughput and packet delay]

- Flow 1 ingress (mean 140.11 Mbit/s)
- Flow 1 egress (mean 139.92 Mbit/s)
- Flow 2 ingress (mean 28.15 Mbit/s)
- Flow 2 egress (mean 28.14 Mbit/s)
- Flow 3 ingress (mean 43.23 Mbit/s)
- Flow 3 egress (mean 43.23 Mbit/s)

![Packets per second graph]

- Flow 1 (95th percentile 209.01 ms)
- Flow 2 (95th percentile 113.69 ms)
- Flow 3 (95th percentile 113.57 ms)
Run 4: Statistics of Verus

Start at: 2020-04-16 11:42:03
End at: 2020-04-16 11:42:33
Local clock offset: 0.42 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-04-16 16:21:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.79 Mbit/s
95th percentile per-packet one-way delay: 235.612 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 163.07 Mbit/s
95th percentile per-packet one-way delay: 244.138 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 49.95 Mbit/s
95th percentile per-packet one-way delay: 123.148 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 71.17 Mbit/s
95th percentile per-packet one-way delay: 147.234 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 165.83 Mbit/s)
- Flow 1 egress (mean 163.07 Mbit/s)
- Flow 2 ingress (mean 49.95 Mbit/s)
- Flow 2 egress (mean 49.95 Mbit/s)
- Flow 3 ingress (mean 71.63 Mbit/s)
- Flow 3 egress (mean 71.17 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 244.14 ms)
- Flow 2 (95th percentile 123.15 ms)
- Flow 3 (95th percentile 147.23 ms)
Run 5: Statistics of Verus

Start at: 2020-04-16 12:23:34
End at: 2020-04-16 12:24:04
Local clock offset: 0.28 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2020-04-16 16:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 176.00 Mbit/s
95th percentile per-packet one-way delay: 193.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.88 Mbit/s
95th percentile per-packet one-way delay: 206.938 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 126.40 Mbit/s
95th percentile per-packet one-way delay: 172.740 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.97 Mbit/s
95th percentile per-packet one-way delay: 109.075 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 10:06:49
End at: 2020-04-16 10:07:20
Local clock offset: 0.019 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2020-04-16 16:22:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.83 Mbit/s
95th percentile per-packet one-way delay: 112.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.79 Mbit/s
95th percentile per-packet one-way delay: 107.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 171.52 Mbit/s
95th percentile per-packet one-way delay: 114.083 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 135.72 Mbit/s
95th percentile per-packet one-way delay: 110.971 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

Graph 1: Throughput (Mbps)

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

Legend:
- Flow 1 ingress (mean 192.79 Mbps)
- Flow 1 egress (mean 192.79 Mbps)
- Flow 2 ingress (mean 171.52 Mbps)
- Flow 2 egress (mean 171.52 Mbps)
- Flow 3 ingress (mean 135.71 Mbps)
- Flow 3 egress (mean 135.72 Mbps)

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Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 10:48:11
End at: 2020-04-16 10:48:41
Local clock offset: 0.498 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2020-04-16 16:22:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.90 Mbit/s
95th percentile per-packet one-way delay: 111.824 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 220.55 Mbit/s
95th percentile per-packet one-way delay: 110.011 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 116.55 Mbit/s
95th percentile per-packet one-way delay: 109.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.04 Mbit/s
95th percentile per-packet one-way delay: 121.194 ms
Loss rate: 0.15%
Run 2: Report of PCC-Vivace — Data Link

![Graph of Throughput and Delay](image-url)

- **Throughput Graph**
  - Flow 1 ingress (mean 220.54 Mbit/s)
  - Flow 1 egress (mean 220.55 Mbit/s)
  - Flow 2 ingress (mean 116.55 Mbit/s)
  - Flow 2 egress (mean 116.55 Mbit/s)
  - Flow 3 ingress (mean 130.20 Mbit/s)
  - Flow 3 egress (mean 130.04 Mbit/s)

- **Delay Graph**
  - Flow 1 (95th percentile 110.01 ms)
  - Flow 2 (95th percentile 109.37 ms)
  - Flow 3 (95th percentile 121.19 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 11:29:29
End at: 2020-04-16 11:29:59
Local clock offset: 0.178 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2020-04-16 16:23:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.00 Mbit/s
95th percentile per-packet one-way delay: 112.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.42 Mbit/s
95th percentile per-packet one-way delay: 112.759 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 183.99 Mbit/s
95th percentile per-packet one-way delay: 111.880 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.67 Mbit/s
95th percentile per-packet one-way delay: 129.264 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

[Graph showing throughput over time for different flows with mean rates]

[Graph showing packet delay over time for different flows with 95th percentile delays]
Run 4: Statistics of PCC-Vivace

Start at: 2020-04-16 12:10:51
End at: 2020-04-16 12:11:21
Local clock offset: 0.554 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2020-04-16 16:23:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 378.65 Mbit/s
  95th percentile per-packet one-way delay: 110.034 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 223.05 Mbit/s
  95th percentile per-packet one-way delay: 109.813 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 167.43 Mbit/s
  95th percentile per-packet one-way delay: 107.135 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 134.53 Mbit/s
  95th percentile per-packet one-way delay: 112.042 ms
  Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 223.05 Mbit/s)
- Flow 1 egress (mean 223.05 Mbit/s)
- Flow 2 ingress (mean 167.43 Mbit/s)
- Flow 2 egress (mean 167.43 Mbit/s)
- Flow 3 ingress (mean 134.53 Mbit/s)
- Flow 3 egress (mean 134.53 Mbit/s)

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

- Flow 1 (95th percentile 109.81 ms)
- Flow 2 (95th percentile 107.14 ms)
- Flow 3 (95th percentile 112.04 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2020-04-16 12:52:21
End at: 2020-04-16 12:52:51
Local clock offset: -0.146 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-16 16:23:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.36 Mbit/s
95th percentile per-packet one-way delay: 111.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.41 Mbit/s
95th percentile per-packet one-way delay: 111.119 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 186.33 Mbit/s
95th percentile per-packet one-way delay: 109.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.62 Mbit/s
95th percentile per-packet one-way delay: 111.785 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2020-04-16 09:53:16
End at: 2020-04-16 09:53:46
Local clock offset: -0.076 ms
Remote clock offset: 0.062 ms
Run 1: Report of WebRTC media — Data Link

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

Flow 1 ingress (mean 0.53 Mbit/s)  Flow 1 egress (mean 0.53 Mbit/s)
Flow 2 ingress (mean 0.94 Mbit/s)  Flow 2 egress (mean 0.94 Mbit/s)
Flow 3 ingress (mean 0.06 Mbit/s)  Flow 3 egress (mean 0.06 Mbit/s)
Run 2: Statistics of WebRTC media

Start at: 2020-04-16 10:34:42
End at: 2020-04-16 10:35:12
Local clock offset: 0.004 ms
Remote clock offset: -0.503 ms
Run 2: Report of WebRTC media — Data Link

![Graph of throughput over time for three flows with different ingress and egress rates]
Run 3: Statistics of WebRTC media

Start at: 2020-04-16 11:15:52
End at: 2020-04-16 11:16:22
Local clock offset: 0.96 ms
Remote clock offset: -0.135 ms
Run 3: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 0.85 Mbps)
- Flow 1 egress (mean 0.85 Mbps)
- Flow 2 ingress (mean 0.83 Mbps)
- Flow 2 egress (mean 0.83 Mbps)
- Flow 3 ingress (mean 0.92 Mbps)
- Flow 3 egress (mean 0.92 Mbps)

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

- Flow 1 (95th percentile 106.15 ms)
- Flow 2 (95th percentile 106.23 ms)
- Flow 3 (95th percentile 112.98 ms)
Run 4: Statistics of WebRTC media

Start at: 2020-04-16 11:57:17
End at: 2020-04-16 11:57:47
Local clock offset: -0.79 ms
Remote clock offset: -0.025 ms
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and delay for different flows.

- Flow 1 ingress (mean 0.90 Mbit/s)
- Flow 1 egress (mean 0.90 Mbit/s)
- Flow 2 ingress (mean 0.93 Mbit/s)
- Flow 2 egress (mean 0.93 Mbit/s)
- Flow 3 ingress (mean 0.94 Mbit/s)
- Flow 3 egress (mean 0.94 Mbit/s)
Run 5: Statistics of WebRTC media

Start at: 2020-04-16 12:38:54
End at: 2020-04-16 12:39:24
Local clock offset: 0.726 ms
Remote clock offset: -0.014 ms
Run 5: Report of WebRTC media — Data Link

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

- **Flow 1** ingress (mean 0.88 Mbit/s)
- **Flow 1** egress (mean 0.88 Mbit/s)
- **Flow 2** ingress (mean 0.93 Mbit/s)
- **Flow 2** egress (mean 0.93 Mbit/s)
- **Flow 3** ingress (mean 0.94 Mbit/s)
- **Flow 3** egress (mean 0.94 Mbit/s)

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

- **Flow 1** (95th percentile 109.17 ms)
- **Flow 2** (95th percentile 107.89 ms)
- **Flow 3** (95th percentile 111.57 ms)