Pantheon Report

Generated at 2019-10-04 05:36:59 (UTC).
Data path: GCE Iowa on ens4 (remote) → GCE London on ens4 (local).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1044-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 @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594a89e93b032143caddbe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf9007e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da2095537730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb94eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717652ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d18b623c091a5f8ec8724981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8ac0d0f2e4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ec978f3c4f2
third_party/scream-reproduce @ f099118d1421aa3131bf11f1964974e1da3dbb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366235c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ 4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Iowa 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>
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</thead>
<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>483.17</td>
<td>444.41</td>
<td>398.51</td>
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<td>Copa</td>
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<td>278.39</td>
<td>253.06</td>
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<td>TCP Cubic</td>
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<td>475.33</td>
<td>328.95</td>
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<td>0.07</td>
<td>0.06</td>
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</table>
Run 1: Statistics of TCP BBR

Start at: 2019-10-03 22:57:49
End at: 2019-10-03 22:58:19
Local clock offset: -0.441 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-10-04 02:40:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 954.05 Mbit/s
95th percentile per-packet one-way delay: 181.099 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 486.17 Mbit/s
95th percentile per-packet one-way delay: 184.094 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 495.07 Mbit/s
95th percentile per-packet one-way delay: 181.787 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 419.99 Mbit/s
95th percentile per-packet one-way delay: 161.950 ms
Loss rate: 2.28%
Run 1: Report of TCP BBR — Data Link

![Throughput and Per-packet one-way delay plots](image)

- **Flow 1 ingress (mean 487.98 Mbit/s)**
- **Flow 1 egress (mean 486.17 Mbit/s)**
- **Flow 2 ingress (mean 592.09 Mbit/s)**
- **Flow 2 egress (mean 495.07 Mbit/s)**
- **Flow 3 ingress (mean 425.71 Mbit/s)**
- **Flow 3 egress (mean 419.99 Mbit/s)**
Run 2: Statistics of TCP BBR

Start at: 2019-10-03 23:38:47
End at: 2019-10-03 23:39:17
Local clock offset: -0.913 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-04 02:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 985.32 Mbit/s
95th percentile per-packet one-way delay: 184.746 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 507.21 Mbit/s
95th percentile per-packet one-way delay: 186.569 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 480.83 Mbit/s
95th percentile per-packet one-way delay: 193.877 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 479.05 Mbit/s
95th percentile per-packet one-way delay: 95.899 ms
Loss rate: 1.49%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2019-10-04 00:19:44
End at: 2019-10-04 00:20:14
Local clock offset: 0.048 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-10-04 02:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 915.48 Mbit/s
95th percentile per-packet one-way delay: 139.892 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 483.75 Mbit/s
95th percentile per-packet one-way delay: 158.876 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 413.57 Mbit/s
95th percentile per-packet one-way delay: 128.671 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 474.17 Mbit/s
95th percentile per-packet one-way delay: 136.687 ms
Loss rate: 2.02%
Run 3: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 484.64 Mbps)
- Flow 1 egress (mean 483.75 Mbps)
- Flow 2 ingress (mean 412.74 Mbps)
- Flow 2 egress (mean 413.57 Mbps)
- Flow 3 ingress (mean 479.29 Mbps)
- Flow 3 egress (mean 474.17 Mbps)

![Graph 2: Packet delay (ms)]

- Flow 1 (95th percentile 158.88 ms)
- Flow 2 (95th percentile 128.67 ms)
- Flow 3 (95th percentile 136.69 ms)
Run 4: Statistics of TCP BBR

Start at: 2019-10-04 01:00:01
End at: 2019-10-04 01:00:31
Local clock offset: 0.019 ms
Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-10-04 02:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 814.46 Mbit/s
95th percentile per-packet one-way delay: 156.987 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 466.62 Mbit/s
95th percentile per-packet one-way delay: 161.133 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 380.65 Mbit/s
95th percentile per-packet one-way delay: 135.459 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 286.43 Mbit/s
95th percentile per-packet one-way delay: 82.916 ms
Loss rate: 1.54%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 468.17 Mbit/s)
- Flow 1 egress (mean 466.62 Mbit/s)
- Flow 2 ingress (mean 380.81 Mbit/s)
- Flow 2 egress (mean 380.05 Mbit/s)
- Flow 3 ingress (mean 288.13 Mbit/s)
- Flow 3 egress (mean 286.43 Mbit/s)
Run 5: Statistics of TCP BBR

Start at: 2019-10-04 01:40:25
End at: 2019-10-04 01:40:55
Local clock offset: -0.081 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-10-04 02:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 882.57 Mbit/s
95th percentile per-packet one-way delay: 148.575 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 472.08 Mbit/s
95th percentile per-packet one-way delay: 154.332 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 451.93 Mbit/s
95th percentile per-packet one-way delay: 90.286 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 332.93 Mbit/s
95th percentile per-packet one-way delay: 77.148 ms
Loss rate: 0.77%
Run 5: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2019-10-03 22:41:55
End at: 2019-10-03 22:42:25
Local clock offset: -0.026 ms
Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-10-04 02:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.11 Mbit/s
95th percentile per-packet one-way delay: 57.979 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 282.99 Mbit/s
95th percentile per-packet one-way delay: 57.549 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 282.17 Mbit/s
95th percentile per-packet one-way delay: 57.306 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 216.79 Mbit/s
95th percentile per-packet one-way delay: 98.025 ms
Loss rate: 1.07%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

End at: 2019-10-03 23:23:07
Local clock offset: -0.7 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-10-04 02:41:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 520.34 Mbit/s
95th percentile per-packet one-way delay: 63.919 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 278.46 Mbit/s
95th percentile per-packet one-way delay: 65.086 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 245.78 Mbit/s
95th percentile per-packet one-way delay: 63.883 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 237.76 Mbit/s
95th percentile per-packet one-way delay: 61.130 ms
Loss rate: 0.98%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2019-10-04 00:03:38
End at: 2019-10-04 00:04:08
Local clock offset: -0.027 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-10-04 02:41:43
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 62.114 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 261.27 Mbit/s
95th percentile per-packet one-way delay: 59.400 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 272.97 Mbit/s
95th percentile per-packet one-way delay: 63.372 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 233.00 Mbit/s
95th percentile per-packet one-way delay: 67.185 ms
Loss rate: 1.18%
Run 3: Report of Copa — Data Link

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

- Flow 1 ingress (mean 261.31 Mbps)
- Flow 1 egress (mean 261.27 Mbps)
- Flow 2 ingress (mean 273.11 Mbps)
- Flow 2 egress (mean 272.97 Mbps)
- Flow 3 ingress (mean 233.57 Mbps)
- Flow 3 egress (mean 233.00 Mbps)
Run 4: Statistics of Copa

Start at: 2019-10-04 00:44:22
End at: 2019-10-04 00:44:52
Local clock offset: 0.068 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-10-04 02:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 533.85 Mbit/s
95th percentile per-packet one-way delay: 62.509 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 278.25 Mbit/s
95th percentile per-packet one-way delay: 63.890 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 268.48 Mbit/s
95th percentile per-packet one-way delay: 63.323 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 233.69 Mbit/s
95th percentile per-packet one-way delay: 50.755 ms
Loss rate: 0.97%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 278.10 Mbit/s)
- Flow 1 egress (mean 278.25 Mbit/s)
- Flow 2 ingress (mean 268.50 Mbit/s)
- Flow 2 egress (mean 268.48 Mbit/s)
- Flow 3 ingress (mean 233.64 Mbit/s)
- Flow 3 egress (mean 233.69 Mbit/s)
Run 5: Statistics of Copa

Start at: 2019-10-04 01:24:25
End at: 2019-10-04 01:24:55
Local clock offset: 0.011 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-10-04 02:57:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 484.77 Mbit/s
  95th percentile per-packet one-way delay: 63.434 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 290.97 Mbit/s
  95th percentile per-packet one-way delay: 57.527 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 195.90 Mbit/s
  95th percentile per-packet one-way delay: 76.665 ms
  Loss rate: 0.22%
-- Flow 3:
  Average throughput: 192.55 Mbit/s
  95th percentile per-packet one-way delay: 77.786 ms
  Loss rate: 0.85%
Run 5: Report of Copa — Data Link

![Graph showing network throughput and packet delay for different flows over time.](image-url)
Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 22:47:25
End at: 2019-10-03 22:47:55
Local clock offset: -0.427 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-10-04 02:59:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 993.28 Mbit/s
  95th percentile per-packet one-way delay: 142.281 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 564.91 Mbit/s
  95th percentile per-packet one-way delay: 148.293 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 438.36 Mbit/s
  95th percentile per-packet one-way delay: 81.620 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 414.40 Mbit/s
  95th percentile per-packet one-way delay: 116.263 ms
  Loss rate: 1.08%
Run 1: Report of TCP Cubic — Data Link

![TCP Cubic Data Link Graph]

- **Flow 1 ingress** (mean 565.98 Mbit/s)
- **Flow 1 egress** (mean 564.91 Mbit/s)
- **Flow 2 ingress** (mean 438.52 Mbit/s)
- **Flow 2 egress** (mean 438.36 Mbit/s)
- **Flow 3 ingress** (mean 415.02 Mbit/s)
- **Flow 3 egress** (mean 414.40 Mbit/s)

![TCP Cubic Data Link Graph]

- **Flow 1** (95th percentile 148.29 ms)
- **Flow 2** (95th percentile 81.62 ms)
- **Flow 3** (95th percentile 116.26 ms)
Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 23:28:15
End at: 2019-10-03 23:28:45
Local clock offset: -0.782 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-10-04 03:00:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1000.18 Mbit/s
95th percentile per-packet one-way delay: 142.688 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 550.67 Mbit/s
95th percentile per-packet one-way delay: 148.666 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 469.61 Mbit/s
95th percentile per-packet one-way delay: 137.711 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 414.68 Mbit/s
95th percentile per-packet one-way delay: 119.047 ms
Loss rate: 1.70%
Run 2: Report of TCP Cubic — Data Link

![Graph showing throughput and packet round-trip time](image)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 551.80 Mbps)
  - Flow 1 egress (mean 550.67 Mbps)
  - Flow 2 ingress (mean 479.21 Mbps)
  - Flow 2 egress (mean 469.61 Mbps)
  - Flow 3 ingress (mean 417.88 Mbps)
  - Flow 3 egress (mean 414.68 Mbps)

- **Per-packet round-trip time (ms):**
  - Flow 1 95th percentile 148.67 ms
  - Flow 2 95th percentile 137.71 ms
  - Flow 3 95th percentile 119.05 ms
Run 3: Statistics of TCP Cubic

Start at: 2019-10-04 00:09:12
End at: 2019-10-04 00:09:42
Local clock offset: 0.042 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-10-04 03:01:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1033.54 Mbit/s
  95th percentile per-packet one-way delay: 156.513 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 543.90 Mbit/s
  95th percentile per-packet one-way delay: 159.616 ms
  Loss rate: 0.68%
-- Flow 2:
  Average throughput: 527.38 Mbit/s
  95th percentile per-packet one-way delay: 149.103 ms
  Loss rate: 0.90%
-- Flow 3:
  Average throughput: 420.52 Mbit/s
  95th percentile per-packet one-way delay: 136.965 ms
  Loss rate: 1.81%
Run 3: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet round trip time over time for different flows.](chart.png)
Run 4: Statistics of TCP Cubic

Start at: 2019-10-04 00:49:53
End at: 2019-10-04 00:50:23
Local clock offset: 0.078 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-10-04 03:01:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 914.22 Mbit/s
95th percentile per-packet one-way delay: 114.052 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 528.46 Mbit/s
95th percentile per-packet one-way delay: 117.462 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 399.81 Mbit/s
95th percentile per-packet one-way delay: 67.019 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 363.00 Mbit/s
95th percentile per-packet one-way delay: 65.323 ms
Loss rate: 1.24%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 528.79 Mbit/s)
- Flow 1 egress (mean 528.46 Mbit/s)
- Flow 2 ingress (mean 399.99 Mbit/s)
- Flow 2 egress (mean 399.81 Mbit/s)
- Flow 3 ingress (mean 364.06 Mbit/s)
- Flow 3 egress (mean 363.00 Mbit/s)

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

- Flow 1 (95th percentile 117.46 ms)
- Flow 2 (95th percentile 67.02 ms)
- Flow 3 (95th percentile 65.32 ms)
Run 5: Statistics of TCP Cubic

Start at: 2019-10-04 01:30:00
End at: 2019-10-04 01:30:30
Local clock offset: -0.056 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-10-04 03:01:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 935.19 Mbit/s
95th percentile per-packet one-way delay: 145.775 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 506.71 Mbit/s
95th percentile per-packet one-way delay: 149.005 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 482.61 Mbit/s
95th percentile per-packet one-way delay: 105.658 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 325.26 Mbit/s
95th percentile per-packet one-way delay: 55.726 ms
Loss rate: 1.10%
Run 1: Statistics of FillP

Start at: 2019-10-03 23:15:06
End at: 2019-10-03 23:15:36
Local clock offset: -0.51 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-10-04 03:02:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 872.56 Mbit/s
  95th percentile per-packet one-way delay: 105.791 ms
  Loss rate: 0.94%
-- Flow 1:
  Average throughput: 519.41 Mbit/s
  95th percentile per-packet one-way delay: 111.462 ms
  Loss rate: 1.18%
-- Flow 2:
  Average throughput: 395.51 Mbit/s
  95th percentile per-packet one-way delay: 54.724 ms
  Loss rate: 0.37%
-- Flow 3:
  Average throughput: 273.97 Mbit/s
  95th percentile per-packet one-way delay: 53.348 ms
  Loss rate: 1.21%
Run 1: Report of FillP — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 524.20 Mb/s)  Flow 1 egress (mean 519.41 Mb/s)
Flow 2 ingress (mean 395.08 Mb/s)  Flow 2 egress (mean 395.33 Mb/s)
Flow 3 ingress (mean 274.43 Mb/s)  Flow 3 egress (mean 273.97 Mb/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 111.46 ms)  Flow 2 (95th percentile 54.72 ms)  Flow 3 (95th percentile 53.35 ms)
Run 2: Statistics of FillP

Start at: 2019-10-03 23:56:02  
End at: 2019-10-03 23:56:32  
Local clock offset: -0.136 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-10-04 03:16:19  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 821.32 Mbit/s  
95th percentile per-packet one-way delay: 88.775 ms  
Loss rate: 0.53%

-- Flow 1:
Average throughput: 500.42 Mbit/s  
95th percentile per-packet one-way delay: 94.100 ms  
Loss rate: 0.58%

-- Flow 2:
Average throughput: 358.06 Mbit/s  
95th percentile per-packet one-way delay: 54.040 ms  
Loss rate: 0.28%

-- Flow 3:
Average throughput: 252.02 Mbit/s  
95th percentile per-packet one-way delay: 49.713 ms  
Loss rate: 0.91%
Run 2: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 502.12 Mbps)
- Flow 1 Egress (mean 500.42 Mbps)
- Flow 2 Ingress (mean 357.60 Mbps)
- Flow 2 Egress (mean 358.06 Mbps)
- Flow 3 Ingress (mean 251.64 Mbps)
- Flow 3 Egress (mean 252.02 Mbps)
Run 3: Statistics of FillP

Start at: 2019-10-04 00:36:54
End at: 2019-10-04 00:37:24
Local clock offset: 0.081 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-10-04 03:16:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 804.61 Mbit/s
  95th percentile per-packet one-way delay: 84.014 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 500.90 Mbit/s
  95th percentile per-packet one-way delay: 90.279 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 328.25 Mbit/s
  95th percentile per-packet one-way delay: 50.131 ms
  Loss rate: 0.50%
-- Flow 3:
  Average throughput: 260.14 Mbit/s
  95th percentile per-packet one-way delay: 49.617 ms
  Loss rate: 0.96%
Run 3: Report of FillP — Data Link

![Graph showing throughput and per-packet one-way delay charts]

Legend:
- Flow 1 ingress (mean 501.05 Mbit/s) — Flow 1 egress (mean 500.90 Mbit/s)
- Flow 2 ingress (mean 328.10 Mbit/s) — Flow 2 egress (mean 328.25 Mbit/s)
- Flow 3 ingress (mean 260.06 Mbit/s) — Flow 3 egress (mean 260.14 Mbit/s)
Run 4: Statistics of FillP

Start at: 2019-10-04 01:16:59
End at: 2019-10-04 01:17:29
Local clock offset: -0.004 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-04 03:18:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 804.51 Mbit/s
95th percentile per-packet one-way delay: 85.143 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 504.58 Mbit/s
95th percentile per-packet one-way delay: 89.528 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 313.98 Mbit/s
95th percentile per-packet one-way delay: 52.112 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 278.05 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 1.22%
Run 4: Report of FillP — Data Link

![Graphs showing throughput and per-packet one-way delay over time.](image)

- **Throughput (Mb/s):**
  - Flow 1 ingress (mean 304.11 Mb/s)
  - Flow 1 egress (mean 504.58 Mb/s)
  - Flow 2 ingress (mean 313.84 Mb/s)
  - Flow 2 egress (mean 313.98 Mb/s)
  - Flow 3 ingress (mean 278.42 Mb/s)
  - Flow 3 egress (mean 278.05 Mb/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 89.53 ms)
  - Flow 2 (95th percentile 52.11 ms)
  - Flow 3 (95th percentile 53.85 ms)
Run 5: Statistics of Fillp

Start at: 2019-10-04 01:57:12
End at: 2019-10-04 01:57:42
Local clock offset: -0.107 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-10-04 03:19:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 844.64 Mbit/s
  95th percentile per-packet one-way delay: 57.677 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 542.92 Mbit/s
  95th percentile per-packet one-way delay: 59.237 ms
  Loss rate: 0.19%
-- Flow 2:
  Average throughput: 334.81 Mbit/s
  95th percentile per-packet one-way delay: 56.971 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 241.79 Mbit/s
  95th percentile per-packet one-way delay: 49.975 ms
  Loss rate: 1.18%
Run 5: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 542.10 Mbps)
- Flow 1 Egress (mean 542.92 Mbps)
- Flow 2 Ingress (mean 334.93 Mbps)
- Flow 2 Egress (mean 334.81 Mbps)
- Flow 3 Ingress (mean 242.27 Mbps)
- Flow 3 Egress (mean 241.79 Mbps)

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

- Flow 1 (95th percentile 59.24 ms)
- Flow 2 (95th percentile 56.97 ms)
- Flow 3 (95th percentile 49.96 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 22:52:54
End at: 2019-10-03 22:53:24
Local clock offset: 0.265 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2019-10-04 03:19:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 828.23 Mbit/s
  95th percentile per-packet one-way delay: 52.761 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 509.77 Mbit/s
  95th percentile per-packet one-way delay: 51.247 ms
  Loss rate: 0.15%
-- Flow 2:
  Average throughput: 347.24 Mbit/s
  95th percentile per-packet one-way delay: 53.496 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 266.27 Mbit/s
  95th percentile per-packet one-way delay: 54.135 ms
  Loss rate: 1.15%
Run 1: Report of FillP-Sheep — Data Link

![Graph showing data link throughput and packet delay]

- Flow 1 ingress (mean 509.31 Mbps)
- Flow 1 egress (mean 509.77 Mbps)
- Flow 2 ingress (mean 347.16 Mbps)
- Flow 2 egress (mean 347.24 Mbps)
- Flow 3 ingress (mean 266.68 Mbps)
- Flow 3 egress (mean 266.27 Mbps)

![Graph showing packet delay]

- Flow 1 (95th percentile 51.25 ms)
- Flow 2 (95th percentile 53.50 ms)
- Flow 3 (95th percentile 54.13 ms)
Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 23:33:49
End at: 2019-10-03 23:34:19
Local clock offset: -0.47 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-10-04 03:19:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 811.81 Mbit/s
95th percentile per-packet one-way delay: 52.420 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 501.23 Mbit/s
95th percentile per-packet one-way delay: 52.863 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 319.83 Mbit/s
95th percentile per-packet one-way delay: 51.834 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 298.93 Mbit/s
95th percentile per-packet one-way delay: 51.693 ms
Loss rate: 1.03%
Run 2: Report of FillP-Sheep — Data Link

![Graph showing throughput and delay](image)

Legend:
- Flow 1 Ingress (mean 500.61 Mbit/s)
- Flow 1 Egress (mean 501.23 Mbit/s)
- Flow 2 Ingress (mean 319.66 Mbit/s)
- Flow 2 Egress (mean 319.83 Mbit/s)
- Flow 3 Ingress (mean 299.74 Mbit/s)
- Flow 3 Egress (mean 298.93 Mbit/s)

![Graph showing packet delay](image)

Legend:
- Flow 1 (95th percentile 52.86 ms)
- Flow 2 (95th percentile 51.83 ms)
- Flow 3 (95th percentile 51.69 ms)
Run 3: Statistics of FillP-Sheep

Start at: 2019-10-04 00:14:44
End at: 2019-10-04 00:15:14
Local clock offset: 0.071 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-10-04 03:21:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 876.69 Mbit/s
95th percentile per-packet one-way delay: 54.531 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 570.39 Mbit/s
95th percentile per-packet one-way delay: 55.832 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 334.92 Mbit/s
95th percentile per-packet one-way delay: 53.023 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 255.26 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 1.33%
Run 3: Report of FillP-Sheep — Data Link

![Graph 1: Throughput vs Time](chart1.png)

- Flow 1 Ingress (mean 570.07 Mb/s)
- Flow 1 Egress (mean 570.39 Mb/s)
- Flow 2 Ingress (mean 334.86 Mb/s)
- Flow 2 Egress (mean 334.92 Mb/s)
- Flow 3 Ingress (mean 255.69 Mb/s)
- Flow 3 Egress (mean 255.26 Mb/s)

![Graph 2: Per-packet one-way delay vs Time](chart2.png)

- Flow 1 (95th percentile 55.83 ms)
- Flow 2 (95th percentile 53.02 ms)
- Flow 3 (95th percentile 53.88 ms)
Run 4: Statistics of FillP-Sheep

Start at: 2019-10-04 00:55:13
End at: 2019-10-04 00:55:43
Local clock offset: 0.045 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-10-04 03:21:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 599.22 Mbit/s
  95th percentile per-packet one-way delay: 89.753 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 291.06 Mbit/s
  95th percentile per-packet one-way delay: 95.273 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 331.51 Mbit/s
  95th percentile per-packet one-way delay: 51.050 ms
  Loss rate: 0.38%
-- Flow 3:
  Average throughput: 267.55 Mbit/s
  95th percentile per-packet one-way delay: 52.416 ms
  Loss rate: 1.10%
Run 4: Report of FillP-Sheep — Data Link
Run 5: Statistics of FillP-Sheep

Start at: 2019-10-04 01:35:29
End at: 2019-10-04 01:35:59
Local clock offset: 0.317 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 788.42 Mbit/s
  95th percentile per-packet one-way delay: 90.295 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 504.20 Mbit/s
  95th percentile per-packet one-way delay: 94.022 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 311.23 Mbit/s
  95th percentile per-packet one-way delay: 51.337 ms
  Loss rate: 0.35%
-- Flow 3:
  Average throughput: 235.27 Mbit/s
  95th percentile per-packet one-way delay: 49.562 ms
  Loss rate: 1.20%
Run 5: Report of FillP-Sheep — Data Link
Run 1: Statistics of Indigo

End at: 2019-10-03 23:13:52
Local clock offset: -0.478 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 358.72 Mbit/s
  95th percentile per-packet one-way delay: 50.132 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 196.36 Mbit/s
  95th percentile per-packet one-way delay: 50.225 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 185.76 Mbit/s
  95th percentile per-packet one-way delay: 50.440 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 108.70 Mbit/s
  95th percentile per-packet one-way delay: 48.287 ms
  Loss rate: 1.07%
Run 1: Report of Indigo — Data Link

![Graph showing throughput and packet delay over time for flows 1, 2, and 3.]

Flow 1 ingress (mean 196.43 Mbit/s), Flow 1 egress (mean 196.36 Mbit/s), Flow 2 ingress (mean 185.89 Mbit/s), Flow 2 egress (mean 185.76 Mbit/s), Flow 3 ingress (mean 108.81 Mbit/s), Flow 3 egress (mean 108.70 Mbit/s).
Run 2: Statistics of Indigo

Start at: 2019-10-03 23:54:15
End at: 2019-10-03 23:54:45
Local clock offset: ~0.164 ms
Remote clock offset: ~0.12 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 377.46 Mbit/s
  95th percentile per-packet one-way delay: 50.404 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 216.81 Mbit/s
  95th percentile per-packet one-way delay: 51.304 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 187.89 Mbit/s
  95th percentile per-packet one-way delay: 49.559 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 111.48 Mbit/s
  95th percentile per-packet one-way delay: 49.031 ms
  Loss rate: 1.07%
Run 2: Report of Indigo — Data Link

**Graph 1:**
Throughput (Mbps) vs. Time (s)
- Flow 1 ingress (mean 216.86 Mbps)
- Flow 1 egress (mean 216.81 Mbps)
- Flow 2 ingress (mean 188.00 Mbps)
- Flow 2 egress (mean 187.89 Mbps)
- Flow 3 ingress (mean 111.59 Mbps)
- Flow 3 egress (mean 111.48 Mbps)

**Graph 2:**
Per packet one way delay (ms) vs. Time (s)
- Flow 1 (95th percentile 51.30 ms)
- Flow 2 (95th percentile 49.56 ms)
- Flow 3 (95th percentile 49.03 ms)
Run 3: Statistics of Indigo

Start at: 2019-10-04 00:35:15
End at: 2019-10-04 00:35:45
Local clock offset: 0.062 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 296.00 Mbit/s
95th percentile per-packet one-way delay: 53.691 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 188.45 Mbit/s
95th percentile per-packet one-way delay: 61.519 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 110.92 Mbit/s
95th percentile per-packet one-way delay: 50.297 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 106.39 Mbit/s
95th percentile per-packet one-way delay: 50.177 ms
Loss rate: 1.10%
Run 3: Report of Indigo — Data Link

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

Start at: 2019-10-04 01:15:13
End at: 2019-10-04 01:15:43
Local clock offset: -0.038 ms
Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 358.90 Mbit/s
  95th percentile per-packet one-way delay: 50.478 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 190.20 Mbit/s
  95th percentile per-packet one-way delay: 50.577 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 174.43 Mbit/s
  95th percentile per-packet one-way delay: 50.136 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 164.83 Mbit/s
  95th percentile per-packet one-way delay: 50.788 ms
  Loss rate: 1.10%
Run 4: Report of Indigo — Data Link

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

Throughput:
- Flow 1 ingress: mean 190.22 Mbps
- Flow 1 egress: mean 190.29 Mbps
- Flow 2 ingress: mean 174.51 Mbps
- Flow 2 egress: mean 174.43 Mbps
- Flow 3 ingress: mean 165.03 Mbps
- Flow 3 egress: mean 164.83 Mbps

Packet delay:
- Flow 1 (95th percentile: 50.58 ms)
- Flow 2 (95th percentile: 50.14 ms)
- Flow 3 (95th percentile: 50.79 ms)
Run 5: Statistics of Indigo

Start at: 2019-10-04 01:55:27
End at: 2019-10-04 01:55:57
Local clock offset: -0.037 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 351.74 Mbit/s
  95th percentile per-packet one-way delay: 51.002 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 192.84 Mbit/s
  95th percentile per-packet one-way delay: 51.260 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 185.72 Mbit/s
  95th percentile per-packet one-way delay: 50.962 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 110.13 Mbit/s
  95th percentile per-packet one-way delay: 49.266 ms
  Loss rate: 1.08%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 22:43:56
End at: 2019-10-03 22:44:26
Local clock offset: -0.051 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-10-04 03:35:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 694.91 Mbit/s
95th percentile per-packet one-way delay: 51.553 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 423.82 Mbit/s
95th percentile per-packet one-way delay: 52.811 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 342.07 Mbit/s
95th percentile per-packet one-way delay: 50.604 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 230.47 Mbit/s
95th percentile per-packet one-way delay: 49.699 ms
Loss rate: 1.78%
Run 1: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 423.23 Mbit/s)
- Flow 1 egress (mean 423.82 Mbit/s)
- Flow 2 ingress (mean 342.97 Mbit/s)
- Flow 2 egress (mean 342.07 Mbit/s)
- Flow 3 ingress (mean 231.00 Mbit/s)
- Flow 3 egress (mean 230.47 Mbit/s)
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 23:24:36
End at: 2019-10-03 23:25:06
Local clock offset: -0.709 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-10-04 03:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 783.69 Mbit/s
95th percentile per-packet one-way delay: 56.793 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 457.70 Mbit/s
95th percentile per-packet one-way delay: 59.950 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 391.32 Mbit/s
95th percentile per-packet one-way delay: 53.357 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 295.55 Mbit/s
95th percentile per-packet one-way delay: 52.842 ms
Loss rate: 1.58%
Run 2: Report of Indigo-MusesC3 — Data Link

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

Flow 1 ingress (mean 457.19 Mbit/s)  
Flow 1 egress (mean 457.70 Mbit/s)  
Flow 2 ingress (mean 391.16 Mbit/s)  
Flow 2 egress (mean 391.32 Mbit/s)  
Flow 3 ingress (mean 296.31 Mbit/s)  
Flow 3 egress (mean 295.55 Mbit/s)

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

Flow 1 (50th percentile 59.95 ms)  
Flow 2 (50th percentile 53.36 ms)  
Flow 3 (50th percentile 52.84 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-04 00:05:36
End at: 2019-10-04 00:06:06
Local clock offset: 0.047 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-10-04 03:43:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 754.13 Mbit/s
95th percentile per-packet one-way delay: 64.536 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 456.20 Mbit/s
95th percentile per-packet one-way delay: 70.813 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 370.68 Mbit/s
95th percentile per-packet one-way delay: 62.823 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 269.21 Mbit/s
95th percentile per-packet one-way delay: 51.035 ms
Loss rate: 1.58%
Run 3: Report of Indigo-MusesC3 — Data Link

![Throughput Graph](image1)

![Per-packet one-way delay Graph](image2)
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-04 00:46:26
End at: 2019-10-04 00:46:56
Local clock offset: 0.102 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-10-04 03:43:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 657.52 Mbit/s
95th percentile per-packet one-way delay: 55.126 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 407.46 Mbit/s
95th percentile per-packet one-way delay: 58.047 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 326.04 Mbit/s
95th percentile per-packet one-way delay: 50.347 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 197.78 Mbit/s
95th percentile per-packet one-way delay: 49.581 ms
Loss rate: 1.42%
Run 4: Report of Indigo-MusesC3 — Data Link
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-04 01:26:22
End at: 2019-10-04 01:26:52
Local clock offset: -0.047 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-10-04 03:46:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 768.58 Mbit/s
95th percentile per-packet one-way delay: 59.672 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 464.11 Mbit/s
95th percentile per-packet one-way delay: 63.178 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 388.05 Mbit/s
95th percentile per-packet one-way delay: 51.304 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 234.08 Mbit/s
95th percentile per-packet one-way delay: 52.083 ms
Loss rate: 2.19%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 22:49:26
End at: 2019-10-03 22:49:56
Local clock offset: ~0.062 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-10-04 03:48:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 786.26 Mbit/s
95th percentile per-packet one-way delay: 61.573 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 478.98 Mbit/s
95th percentile per-packet one-way delay: 65.424 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 388.10 Mbit/s
95th percentile per-packet one-way delay: 56.324 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 270.86 Mbit/s
95th percentile per-packet one-way delay: 52.012 ms
Loss rate: 1.92%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 23:30:16
End at: 2019-10-03 23:30:46
Local clock offset: -0.771 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-10-04 03:49:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 854.30 Mbit/s
  95th percentile per-packet one-way delay: 72.176 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 496.95 Mbit/s
  95th percentile per-packet one-way delay: 74.454 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 440.93 Mbit/s
  95th percentile per-packet one-way delay: 67.341 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 306.82 Mbit/s
  95th percentile per-packet one-way delay: 57.731 ms
  Loss rate: 1.51%
Run 2: Report of Indigo-MusesC5 — Data Link

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

- **Throughput**
  - Flow 1 ingress (mean 496.51 Mbps)
  - Flow 1 egress (mean 496.95 Mbps)
  - Flow 2 ingress (mean 440.70 Mbps)
  - Flow 2 egress (mean 440.93 Mbps)
  - Flow 3 ingress (mean 307.33 Mbps)
  - Flow 3 egress (mean 306.62 Mbps)

- **Per-packet one-way delay**
  - Flow 1 (95th percentile 74.45 ms)
  - Flow 2 (95th percentile 67.34 ms)
  - Flow 3 (95th percentile 57.73 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-04 00:11:15
End at: 2019-10-04 00:11:45
Local clock offset: 0.068 ms
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-10-04 03:49:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 832.10 Mbit/s
95th percentile per-packet one-way delay: 118.735 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 488.52 Mbit/s
95th percentile per-packet one-way delay: 132.085 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 429.98 Mbit/s
95th percentile per-packet one-way delay: 107.616 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 287.09 Mbit/s
95th percentile per-packet one-way delay: 58.015 ms
Loss rate: 1.86%
Run 3: Report of Indigo-MusesC5 — Data Link

[Graphs showing network performance metrics over time]
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-04 00:51:50
End at: 2019-10-04 00:52:20
Local clock offset: 0.088 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-10-04 03:49:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 694.34 Mbit/s
95th percentile per-packet one-way delay: 60.344 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 455.57 Mbit/s
95th percentile per-packet one-way delay: 62.212 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 355.06 Mbit/s
95th percentile per-packet one-way delay: 55.610 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 47.963 ms
Loss rate: 1.80%
Run 4: Report of Indigo-MusesC5 — Data Link
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-04 01:31:58
End at: 2019-10-04 01:32:28
Local clock offset: -0.04 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-10-04 03:53:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 830.83 Mbit/s
95th percentile per-packet one-way delay: 86.790 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 475.28 Mbit/s
95th percentile per-packet one-way delay: 92.155 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 425.22 Mbit/s
95th percentile per-packet one-way delay: 77.941 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 333.16 Mbit/s
95th percentile per-packet one-way delay: 55.064 ms
Loss rate: 1.93%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 23:04:41
End at: 2019-10-03 23:05:11
Local clock offset: -0.098 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-10-04 03:57:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 742.33 Mbit/s
95th percentile per-packet one-way delay: 63.305 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 449.65 Mbit/s
95th percentile per-packet one-way delay: 66.859 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 361.11 Mbit/s
95th percentile per-packet one-way delay: 50.878 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 248.76 Mbit/s
95th percentile per-packet one-way delay: 50.501 ms
Loss rate: 1.98%
Run 1: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 448.81 Mbps)
- Flow 1 egress (mean 449.65 Mbps)
- Flow 2 ingress (mean 360.81 Mbps)
- Flow 2 egress (mean 361.11 Mbps)
- Flow 3 ingress (mean 250.32 Mbps)
- Flow 3 egress (mean 248.76 Mbps)

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

- Flow 1 (95th percentile 66.86 ms)
- Flow 2 (95th percentile 50.88 ms)
- Flow 3 (95th percentile 50.50 ms)
Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 23:45:38
End at: 2019-10-03 23:46:08
Local clock offset: -0.445 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-10-04 03:59:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 760.17 Mbit/s
95th percentile per-packet one-way delay: 74.334 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 443.86 Mbit/s
95th percentile per-packet one-way delay: 73.610 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 378.40 Mbit/s
95th percentile per-packet one-way delay: 78.171 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 293.90 Mbit/s
95th percentile per-packet one-way delay: 49.738 ms
Loss rate: 1.67%
Run 2: Report of Indigo-MusesD — Data Link

[Graph showing throughput and packet loss over time]

Flow 1 ingress (mean 443.52 Mbit/s)
Flow 1 egress (mean 443.86 Mbit/s)
Flow 2 ingress (mean 377.44 Mbit/s)
Flow 2 egress (mean 378.40 Mbit/s)
Flow 3 ingress (mean 294.99 Mbit/s)
Flow 3 egress (mean 293.90 Mbit/s)

[Graph showing packet loss over time]

Flow 1 (95th percentile 73.61 ms)
Flow 2 (95th percentile 78.17 ms)
Flow 3 (95th percentile 49.74 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-04 00:26:36
End at: 2019-10-04 00:27:06
Local clock offset: 0.052 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-10-04 04:01:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 757.16 Mbit/s
95th percentile per-packet one-way delay: 61.419 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 447.18 Mbit/s
95th percentile per-packet one-way delay: 61.523 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 383.01 Mbit/s
95th percentile per-packet one-way delay: 62.858 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 259.39 Mbit/s
95th percentile per-packet one-way delay: 52.679 ms
Loss rate: 1.18%
Run 3: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 446.75 Mbit/s)
- Flow 1 egress (mean 447.18 Mbit/s)
- Flow 2 ingress (mean 382.35 Mbit/s)
- Flow 2 egress (mean 383.01 Mbit/s)
- Flow 3 ingress (mean 258.96 Mbit/s)
- Flow 3 egress (mean 259.39 Mbit/s)
Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-04 01:06:43
End at: 2019-10-04 01:07:13
Local clock offset: 0.025 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-10-04 04:01:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 614.72 Mbit/s
95th percentile per-packet one-way delay: 53.522 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 362.08 Mbit/s
95th percentile per-packet one-way delay: 55.731 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 310.96 Mbit/s
95th percentile per-packet one-way delay: 50.037 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 216.94 Mbit/s
95th percentile per-packet one-way delay: 49.462 ms
Loss rate: 1.84%
Run 4: Report of Indigo-MusesD — Data Link

![Graph of data link throughput and delay over time]

- **Flow 1 ingress** (mean 361.20 Mbit/s)
- **Flow 1 egress** (mean 362.08 Mbit/s)
- **Flow 2 ingress** (mean 310.60 Mbit/s)
- **Flow 2 egress** (mean 310.96 Mbit/s)
- **Flow 3 ingress** (mean 217.98 Mbit/s)
- **Flow 3 egress** (mean 216.94 Mbit/s)

![Graph of packet delay over time]

- Flow 1 (95th percentile 55.73 ms)
- Flow 2 (95th percentile 50.04 ms)
- Flow 3 (95th percentile 49.46 ms)
Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-04 01:47:10
End at: 2019-10-04 01:47:40
Local clock offset: -0.058 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-10-04 04:01:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 586.28 Mbit/s
95th percentile per-packet one-way delay: 52.718 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 361.85 Mbit/s
95th percentile per-packet one-way delay: 60.467 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 278.96 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 192.44 Mbit/s
95th percentile per-packet one-way delay: 49.177 ms
Loss rate: 1.51%
Run 5: Report of Indigo-MusesD — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 361.74 Mbps)
- **Flow 1 egress** (mean 361.85 Mbps)
- **Flow 2 ingress** (mean 278.58 Mbps)
- **Flow 2 egress** (mean 278.96 Mbps)
- **Flow 3 ingress** (mean 192.74 Mbps)
- **Flow 3 egress** (mean 192.44 Mbps)

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

- **Flow 1** (95th percentile 60.47 ms)
- **Flow 2** (95th percentile 50.43 ms)
- **Flow 3** (95th percentile 49.18 ms)
Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 22:45:39
End at: 2019-10-03 22:46:09
Local clock offset: -0.099 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-10-04 04:04:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 756.62 Mbit/s
95th percentile per-packet one-way delay: 72.609 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 489.92 Mbit/s
95th percentile per-packet one-way delay: 74.202 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 380.06 Mbit/s
95th percentile per-packet one-way delay: 52.443 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 107.03 Mbit/s
95th percentile per-packet one-way delay: 48.111 ms
Loss rate: 1.79%
Run 1: Report of Indigo-MusesT — Data Link

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

**Throughput:**
- Flow 1 ingress: Mean 489.43 Mbit/s
- Flow 1 egress: Mean 489.92 Mbit/s
- Flow 2 ingress: Mean 379.89 Mbit/s
- Flow 2 egress: Mean 380.06 Mbit/s
- Flow 3 ingress: Mean 107.42 Mbit/s
- Flow 3 egress: Mean 107.03 Mbit/s

**Latency:**
- Flow 1: 95th percentile 74.20 ms
- Flow 2: 95th percentile 52.44 ms
- Flow 3: 95th percentile 48.11 ms
Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 23:26:24
End at: 2019-10-03 23:26:54
Local clock offset: -0.353 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-10-04 04:07:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 854.50 Mbit/s
  95th percentile per-packet one-way delay: 102.890 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 499.81 Mbit/s
  95th percentile per-packet one-way delay: 105.134 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 448.63 Mbit/s
  95th percentile per-packet one-way delay: 87.008 ms
  Loss rate: 0.35%
-- Flow 3:
  Average throughput: 280.38 Mbit/s
  95th percentile per-packet one-way delay: 51.886 ms
  Loss rate: 1.85%
Run 2: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 499.59 Mbit/s)
- Flow 1 egress (mean 499.81 Mbit/s)
- Flow 2 ingress (mean 447.81 Mbit/s)
- Flow 2 egress (mean 448.63 Mbit/s)
- Flow 3 ingress (mean 281.82 Mbit/s)
- Flow 3 egress (mean 280.38 Mbit/s)
Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-04 00:07:22
End at: 2019-10-04 00:07:52
Local clock offset: 0.036 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-10-04 04:10:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 819.52 Mbit/s
95th percentile per-packet one-way delay: 92.956 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 513.88 Mbit/s
95th percentile per-packet one-way delay: 95.726 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 435.00 Mbit/s
95th percentile per-packet one-way delay: 63.345 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 116.27 Mbit/s
95th percentile per-packet one-way delay: 46.938 ms
Loss rate: 1.64%
Run 3: Report of Indigo-MusesT — Data Link

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

Start at: 2019-10-04 00:48:08
End at: 2019-10-04 00:48:38
Local clock offset: 0.141 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-10-04 04:11:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 710.60 Mbit/s
95th percentile per-packet one-way delay: 68.413 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 453.88 Mbit/s
95th percentile per-packet one-way delay: 74.931 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 366.59 Mbit/s
95th percentile per-packet one-way delay: 53.762 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 102.57 Mbit/s
95th percentile per-packet one-way delay: 47.224 ms
Loss rate: 1.80%
Run 4: Report of Indigo-MusesT — Data Link

![Graph showing throughput and packet delay over time for different flows.](image_url)
Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-04 01:28:09
End at: 2019-10-04 01:28:39
Local clock offset: -0.024 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-10-04 04:15:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 826.57 Mbit/s
95th percentile per-packet one-way delay: 99.270 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 491.76 Mbit/s
95th percentile per-packet one-way delay: 105.120 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 410.05 Mbit/s
95th percentile per-packet one-way delay: 77.145 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 295.38 Mbit/s
95th percentile per-packet one-way delay: 51.140 ms
Loss rate: 1.70%
Run 5: Report of Indigo-MusesT — Data Link

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

- **Flow 1 ingress** (mean 491.28 Mbit/s)
- **Flow 1 egress** (mean 491.76 Mbit/s)
- **Flow 2 ingress** (mean 408.73 Mbit/s)
- **Flow 2 egress** (mean 410.05 Mbit/s)
- **Flow 3 ingress** (mean 296.47 Mbit/s)
- **Flow 3 egress** (mean 295.38 Mbit/s)

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

- **Flow 1** (95th percentile 105.12 ms)
- **Flow 2** (95th percentile 77.14 ms)
- **Flow 3** (95th percentile 51.14 ms)
Run 1: Statistics of LEDBAT

Start at: 2019-10-03 22:40:37
End at: 2019-10-03 22:41:07
Local clock offset: -0.03 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-10-04 04:15:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 48.216 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 41.41 Mbit/s
95th percentile per-packet one-way delay: 47.871 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 48.473 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 13.58 Mbit/s
95th percentile per-packet one-way delay: 47.751 ms
Loss rate: 1.92%
Run 1: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 41.54 Mbit/s)
- Flow 1 egress (mean 41.41 Mbit/s)
- Flow 2 ingress (mean 27.30 Mbit/s)
- Flow 2 egress (mean 27.37 Mbit/s)
- Flow 3 ingress (mean 13.71 Mbit/s)
- Flow 3 egress (mean 13.58 Mbit/s)

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

- Flow 1 (95th percentile 47.87 ms)
- Flow 2 (95th percentile 48.47 ms)
- Flow 3 (95th percentile 47.75 ms)
Run 2: Statistics of LEDBAT

End at: 2019-10-03 23:21:50
Local clock offset: -0.668 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-10-04 04:15:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 57.76 Mbit/s
  95th percentile per-packet one-way delay: 48.621 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 34.68 Mbit/s
  95th percentile per-packet one-way delay: 49.088 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 27.77 Mbit/s
  95th percentile per-packet one-way delay: 47.857 ms
  Loss rate: 0.95%
-- Flow 3:
  Average throughput: 14.08 Mbit/s
  95th percentile per-packet one-way delay: 47.267 ms
  Loss rate: 1.89%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2019-10-04 00:02:20
End at: 2019-10-04 00:02:50
Local clock offset: -0.041 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-10-04 04:15:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 63.36 Mbit/s
  95th percentile per-packet one-way delay: 48.799 ms
  Loss rate: 0.81%
-- Flow 1:
  Average throughput: 40.69 Mbit/s
  95th percentile per-packet one-way delay: 49.122 ms
  Loss rate: 0.63%
-- Flow 2:
  Average throughput: 27.41 Mbit/s
  95th percentile per-packet one-way delay: 48.538 ms
  Loss rate: 0.95%
-- Flow 3:
  Average throughput: 13.59 Mbit/s
  95th percentile per-packet one-way delay: 48.163 ms
  Loss rate: 1.93%
Run 3: Report of LEDBAT — Data Link

![Graph of Throughput vs Time for Different Flows](image1)

![Graph of Round Trip Time vs Time for Different Flows](image2)

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 40.80 Mbps)
  - Flow 1 egress (mean 40.69 Mbps)
  - Flow 2 ingress (mean 27.35 Mbps)
  - Flow 2 egress (mean 27.41 Mbps)
  - Flow 3 ingress (mean 13.73 Mbps)
  - Flow 3 egress (mean 13.59 Mbps)

- **Round Trip Time (ms)**
  - Flow 1 (95th percentile 49.12 ms)
  - Flow 2 (95th percentile 48.54 ms)
  - Flow 3 (95th percentile 48.16 ms)
Run 4: Statistics of LEDBAT

Start at: 2019-10-04 00:43:03
End at: 2019-10-04 00:43:33
Local clock offset: 0.089 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-10-04 04:15:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.45 Mbit/s
95th percentile per-packet one-way delay: 48.030 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 42.38 Mbit/s
95th percentile per-packet one-way delay: 48.283 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 47.600 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 46.939 ms
Loss rate: 1.90%
Run 4: Report of LEDBAT — Data Link

![Graph showing network performance metrics over time. The graphs display throughput and per packet one-way delay for three flows with different ingress and egress rates.](image)

- Flow 1 ingress (mean 42.51 Mbit/s)
- Flow 1 egress (mean 42.38 Mbit/s)
- Flow 2 ingress (mean 27.99 Mbit/s)
- Flow 2 egress (mean 27.86 Mbit/s)
- Flow 3 ingress (mean 13.96 Mbit/s)
- Flow 3 egress (mean 13.83 Mbit/s)
Run 5: Statistics of LEDBAT

Start at: 2019-10-04 01:23:07
End at: 2019-10-04 01:23:37
Local clock offset: -0.032 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-10-04 04:15:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.58 Mbit/s
95th percentile per-packet one-way delay: 48.760 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 48.904 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 27.29 Mbit/s
95th percentile per-packet one-way delay: 48.636 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 13.82 Mbit/s
95th percentile per-packet one-way delay: 47.170 ms
Loss rate: 1.90%
Run 5: Report of LEDBAT — Data Link

![Graph 1: Throughput over Time]

- **Flow 1 Ingress** (mean 41.04 Mbit/s)
- **Flow 1 Egress** (mean 40.91 Mbit/s)
- **Flow 2 Ingress** (mean 27.42 Mbit/s)
- **Flow 2 Egress** (mean 27.29 Mbit/s)
- **Flow 3 Ingress** (mean 13.95 Mbit/s)
- **Flow 3 Egress** (mean 13.62 Mbit/s)

![Graph 2: Per-Packet End-to-End Delay]

- **Flow 1 (95th percentile 48.90 ms)**
- **Flow 2 (95th percentile 48.64 ms)**
- **Flow 3 (95th percentile 47.17 ms)**
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 22:59:51
End at: 2019-10-03 23:00:21
Local clock offset: -0.088 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-10-04 04:18:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 724.60 Mbit/s
  95th percentile per-packet one-way delay: 54.472 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 424.14 Mbit/s
  95th percentile per-packet one-way delay: 55.598 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 372.80 Mbit/s
  95th percentile per-packet one-way delay: 49.923 ms
  Loss rate: 0.37%
-- Flow 3:
  Average throughput: 173.05 Mbit/s
  95th percentile per-packet one-way delay: 48.070 ms
  Loss rate: 1.61%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 23:40:49
End at: 2019-10-03 23:41:19
Local clock offset: -0.876 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-10-04 04:19:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 707.88 Mbit/s
95th percentile per-packet one-way delay: 63.158 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 412.07 Mbit/s
95th percentile per-packet one-way delay: 63.808 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 331.36 Mbit/s
95th percentile per-packet one-way delay: 64.646 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 244.37 Mbit/s
95th percentile per-packet one-way delay: 49.957 ms
Loss rate: 1.37%
Run 2: Report of Muses_DocumentTree — Data Link

![Graph showing throughput and packet round trip delay over time for different network flows.](image-url)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-10-04 00:21:45
End at: 2019-10-04 00:22:15
Local clock offset: 0.082 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-10-04 04:21:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 725.66 Mbit/s
95th percentile per-packet one-way delay: 60.451 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 435.11 Mbit/s
95th percentile per-packet one-way delay: 63.848 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 398.92 Mbit/s
95th percentile per-packet one-way delay: 52.178 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 47.823 ms
Loss rate: 1.29%
Run 3: Report of Muses_DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-10-04 01:01:55
End at: 2019-10-04 01:02:25
Local clock offset: 0.017 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-04 04:21:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 705.21 Mbit/s
  95th percentile per-packet one-way delay: 55.828 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 411.13 Mbit/s
  95th percentile per-packet one-way delay: 57.346 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 345.30 Mbit/s
  95th percentile per-packet one-way delay: 51.393 ms
  Loss rate: 0.20%
-- Flow 3:
  Average throughput: 213.05 Mbit/s
  95th percentile per-packet one-way delay: 56.281 ms
  Loss rate: 0.90%
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-10-04 01:42:22
End at: 2019-10-04 01:42:53
Local clock offset: -0.05 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-04 04:21:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 658.51 Mbit/s
95th percentile per-packet one-way delay: 55.754 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 365.97 Mbit/s
95th percentile per-packet one-way delay: 58.196 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 345.26 Mbit/s
95th percentile per-packet one-way delay: 50.240 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 204.32 Mbit/s
95th percentile per-packet one-way delay: 50.979 ms
Loss rate: 0.63%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTree\_H0

End at: 2019-10-03 22:51:43
Local clock offset: -0.056 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-10-04 04:22:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 587.97 Mbit/s
95th percentile per-packet one-way delay: 85.314 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 313.04 Mbit/s
95th percentile per-packet one-way delay: 84.655 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 298.42 Mbit/s
95th percentile per-packet one-way delay: 87.342 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 246.35 Mbit/s
95th percentile per-packet one-way delay: 84.622 ms
Loss rate: 2.79%
Run 1: Report of Muses DecisionTreeH0 — Data Link

![Graph showing throughput and per-packet one-way delay for Flow 1, Flow 2, and Flow 3.]
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 23:32:07
End at: 2019-10-03 23:32:37
Local clock offset: -0.814 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-10-04 04:24:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 625.52 Mbit/s
95th percentile per-packet one-way delay: 99.442 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 297.83 Mbit/s
95th percentile per-packet one-way delay: 108.319 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 354.75 Mbit/s
95th percentile per-packet one-way delay: 72.230 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 295.39 Mbit/s
95th percentile per-packet one-way delay: 58.358 ms
Loss rate: 1.29%
Run 2: Report of Muses_DecisionTreeH0 — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 299.44 Mbit/s) — Flow 1 egress (mean 297.83 Mbit/s)
Flow 2 ingress (mean 335.34 Mbit/s) — Flow 2 egress (mean 354.75 Mbit/s)
Flow 3 ingress (mean 296.23 Mbit/s) — Flow 3 egress (mean 295.39 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 108.32 ms) — Flow 2 (95th percentile 72.23 ms) — Flow 3 (95th percentile 58.36 ms)
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-04 00:13:05
End at: 2019-10-04 00:13:35
Local clock offset: 0.047 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-10-04 04:27:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 572.12 Mbit/s
95th percentile per-packet one-way delay: 108.153 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 287.63 Mbit/s
95th percentile per-packet one-way delay: 116.368 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 325.33 Mbit/s
95th percentile per-packet one-way delay: 84.862 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 222.37 Mbit/s
95th percentile per-packet one-way delay: 97.279 ms
Loss rate: 1.12%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing network performance metrics over time. The graphs display throughput and per-packet one-way delay across multiple flows, indicating network activity and performance.](image)
Run 4: Statistics of Muses\_DecisionTreeHO

Start at: 2019-10-04 00:53:34
End at: 2019-10-04 00:54:04
Local clock offset: -0.307 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-10-04 04:29:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.13 Mbit/s
95th percentile per-packet one-way delay: 96.938 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 316.74 Mbit/s
95th percentile per-packet one-way delay: 101.445 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 295.58 Mbit/s
95th percentile per-packet one-way delay: 80.546 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 150.69 Mbit/s
95th percentile per-packet one-way delay: 48.909 ms
Loss rate: 1.96%
Run 4: Report of Muses\_DecisionTreeH0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeHO

Start at: 2019-10-04 01:33:48
End at: 2019-10-04 01:34:18
Local clock offset: -0.052 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-10-04 04:32:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 605.95 Mbit/s
95th percentile per-packet one-way delay: 103.697 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 314.89 Mbit/s
95th percentile per-packet one-way delay: 109.955 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 291.51 Mbit/s
95th percentile per-packet one-way delay: 99.991 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 310.92 Mbit/s
95th percentile per-packet one-way delay: 61.047 ms
Loss rate: 1.65%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 315.44 Mbit/s)
- Flow 1 egress (mean 314.89 Mbit/s)
- Flow 2 ingress (mean 293.04 Mbit/s)
- Flow 2 egress (mean 291.51 Mbit/s)
- Flow 3 ingress (mean 312.81 Mbit/s)
- Flow 3 egress (mean 310.92 Mbit/s)

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

- Flow 1 (95th percentile 109.95 ms)
- Flow 2 (95th percentile 99.99 ms)
- Flow 3 (95th percentile 61.05 ms)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 23:18:18  
End at: 2019-10-03 23:18:48  
Local clock offset: -0.971 ms  
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-10-04 04:35:49  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 721.45 Mbit/s  
95th percentile per-packet one-way delay: 58.076 ms  
Loss rate: 0.35%  
-- Flow 1:
Average throughput: 412.25 Mbit/s  
95th percentile per-packet one-way delay: 60.634 ms  
Loss rate: 0.26%  
-- Flow 2:
Average throughput: 389.79 Mbit/s  
95th percentile per-packet one-way delay: 57.320 ms  
Loss rate: 0.36%  
-- Flow 3:
Average throughput: 164.87 Mbit/s  
95th percentile per-packet one-way delay: 48.113 ms  
Loss rate: 0.98%
Run 1: Report of Muses_DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 23:59:17
End at: 2019-10-03 23:59:47
Local clock offset: -0.071 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-10-04 04:36:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 748.09 Mbit/s
  95th percentile per-packet one-way delay: 57.810 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 431.65 Mbit/s
  95th percentile per-packet one-way delay: 57.269 ms
  Loss rate: 0.22%
-- Flow 2:
  Average throughput: 374.35 Mbit/s
  95th percentile per-packet one-way delay: 60.457 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 219.69 Mbit/s
  95th percentile per-packet one-way delay: 49.363 ms
  Loss rate: 1.18%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 431.20 Mbit/s)
- Flow 1 egress (mean 431.65 Mbit/s)
- Flow 2 ingress (mean 373.73 Mbit/s)
- Flow 2 egress (mean 374.35 Mbit/s)
- Flow 3 ingress (mean 220.12 Mbit/s)
- Flow 3 egress (mean 219.69 Mbit/s)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 57.27 ms)
- Flow 2 (95th percentile 60.46 ms)
- Flow 3 (95th percentile 49.36 ms)
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-04 00:40:04
End at: 2019-10-04 00:40:34
Local clock offset: 0.103 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-10-04 04:36:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.00 Mbit/s
95th percentile per-packet one-way delay: 49.378 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 331.42 Mbit/s
95th percentile per-packet one-way delay: 49.701 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 288.96 Mbit/s
95th percentile per-packet one-way delay: 48.359 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 234.31 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 1.60%
Run 3: Report of Muses_DecisionTreeR0 — Data Link

[Graph showing throughput and per-packet delay for different flows]

Flow 1 ingress (mean 331.17 Mbit/s)
Flow 1 egress (mean 331.42 Mbit/s)
Flow 2 ingress (mean 288.57 Mbit/s)
Flow 2 egress (mean 288.96 Mbit/s)
Flow 3 ingress (mean 235.81 Mbit/s)
Flow 3 egress (mean 234.31 Mbit/s)
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-04 01:20:08  
End at: 2019-10-04 01:20:38  
Local clock offset: -0.012 ms  
Remote clock offset: 0.007 ms  

# Below is generated by plot.py at 2019-10-04 04:37:00  
# Datalink statistics  
-- Total of 3 flows:  
   Average throughput: 683.09 Mbit/s  
   95th percentile per-packet one-way delay: 57.618 ms  
   Loss rate: 0.33%  
-- Flow 1:  
   Average throughput: 404.75 Mbit/s  
   95th percentile per-packet one-way delay: 60.630 ms  
   Loss rate: 0.21%  
-- Flow 2:  
   Average throughput: 332.72 Mbit/s  
   95th percentile per-packet one-way delay: 47.679 ms  
   Loss rate: 0.30%  
-- Flow 3:  
   Average throughput: 186.22 Mbit/s  
   95th percentile per-packet one-way delay: 49.477 ms  
   Loss rate: 1.27%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeRO

Start at: 2019-10-04 02:00:32
End at: 2019-10-04 02:01:02
Local clock offset: -0.048 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-10-04 04:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 710.54 Mbit/s
95th percentile per-packet one-way delay: 60.021 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 425.80 Mbit/s
95th percentile per-packet one-way delay: 60.060 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 345.42 Mbit/s
95th percentile per-packet one-way delay: 62.085 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 180.67 Mbit/s
95th percentile per-packet one-way delay: 48.824 ms
Loss rate: 0.70%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 23:02:49
End at: 2019-10-03 23:03:19
Local clock offset: -0.491 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-10-04 04:53:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 643.29 Mbit/s
95th percentile per-packet one-way delay: 139.083 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 339.00 Mbit/s
95th percentile per-packet one-way delay: 150.962 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 335.89 Mbit/s
95th percentile per-packet one-way delay: 128.624 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 249.25 Mbit/s
95th percentile per-packet one-way delay: 100.834 ms
Loss rate: 1.22%
Run 1: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 340.17 Mbps)
- Flow 1 egress (mean 339.00 Mbps)
- Flow 2 ingress (mean 338.08 Mbps)
- Flow 2 egress (mean 335.89 Mbps)
- Flow 3 ingress (mean 249.88 Mbps)
- Flow 3 egress (mean 249.25 Mbps)

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

- Flow 1 (95th percentile 150.96 ms)
- Flow 2 (95th percentile 128.62 ms)
- Flow 3 (95th percentile 100.83 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 23:43:47
End at: 2019-10-03 23:44:17
Local clock offset: -0.574 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-04 04:54:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 609.40 Mbit/s
95th percentile per-packet one-way delay: 66.304 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 336.12 Mbit/s
95th percentile per-packet one-way delay: 65.535 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 297.22 Mbit/s
95th percentile per-packet one-way delay: 68.775 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 232.09 Mbit/s
95th percentile per-packet one-way delay: 66.267 ms
Loss rate: 1.03%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2019-10-04 00:24:43
End at: 2019-10-04 00:25:13
Local clock offset: 0.032 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-10-04 04:57:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 640.08 Mbit/s
95th percentile per-packet one-way delay: 94.683 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 337.86 Mbit/s
95th percentile per-packet one-way delay: 93.379 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 322.93 Mbit/s
95th percentile per-packet one-way delay: 94.849 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 269.02 Mbit/s
95th percentile per-packet one-way delay: 110.535 ms
Loss rate: 1.51%
Run 3: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet delay over time for Flow 1, Flow 2, and Flow 3.]
Run 4: Statistics of PCC-Allegro

Start at: 2019-10-04 01:04:52  
End at: 2019-10-04 01:05:22  
Local clock offset: 0.018 ms  
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-10-04 04:57:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 605.51 Mbit/s
95th percentile per-packet one-way delay: 87.169 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 333.35 Mbit/s
95th percentile per-packet one-way delay: 89.889 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 288.99 Mbit/s
95th percentile per-packet one-way delay: 59.754 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 246.36 Mbit/s
95th percentile per-packet one-way delay: 132.466 ms
Loss rate: 2.51%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2019-10-04 01:45:18
End at: 2019-10-04 01:45:48
Local clock offset: -0.083 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-10-04 05:00:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 627.70 Mbit/s
95th percentile per-packet one-way delay: 153.909 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 352.61 Mbit/s
95th percentile per-packet one-way delay: 158.997 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 287.95 Mbit/s
95th percentile per-packet one-way delay: 84.091 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 256.87 Mbit/s
95th percentile per-packet one-way delay: 124.168 ms
Loss rate: 1.52%
Run 5: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 23:07:39
End at: 2019-10-03 23:08:09
Local clock offset: -0.219 ms
Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-10-04 05:00:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 502.89 Mbit/s
  95th percentile per-packet one-way delay: 107.675 ms
  Loss rate: 0.39%
-- Flow 1:
  Average throughput: 282.33 Mbit/s
  95th percentile per-packet one-way delay: 113.331 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 245.36 Mbit/s
  95th percentile per-packet one-way delay: 58.988 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 175.95 Mbit/s
  95th percentile per-packet one-way delay: 64.115 ms
  Loss rate: 0.91%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 23:48:36
End at: 2019-10-03 23:49:06
Local clock offset: -0.708 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-10-04 05:00:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 443.94 Mbit/s
95th percentile per-packet one-way delay: 149.453 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 234.88 Mbit/s
95th percentile per-packet one-way delay: 155.792 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 221.84 Mbit/s
95th percentile per-packet one-way delay: 74.369 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 188.91 Mbit/s
95th percentile per-packet one-way delay: 80.445 ms
Loss rate: 1.15%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2019-10-04 00:29:34
End at: 2019-10-04 00:30:04
Local clock offset: 0.077 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-10-04 05:00:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 512.89 Mbit/s
  95th percentile per-packet one-way delay: 144.296 ms
  Loss rate: 1.80%
-- Flow 1:
  Average throughput: 236.85 Mbit/s
  95th percentile per-packet one-way delay: 74.031 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 315.99 Mbit/s
  95th percentile per-packet one-way delay: 166.011 ms
  Loss rate: 3.62%
-- Flow 3:
  Average throughput: 202.06 Mbit/s
  95th percentile per-packet one-way delay: 65.315 ms
  Loss rate: 1.25%
Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

Start at: 2019-10-04 01:09:35
End at: 2019-10-04 01:10:05
Local clock offset: 0.002 ms
Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2019-10-04 05:10:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 480.80 Mbit/s
  95th percentile per-packet one-way delay: 129.476 ms
  Loss rate: 0.95%
-- Flow 1:
  Average throughput: 278.98 Mbit/s
  95th percentile per-packet one-way delay: 133.121 ms
  Loss rate: 1.02%
-- Flow 2:
  Average throughput: 220.12 Mbit/s
  95th percentile per-packet one-way delay: 61.623 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 172.98 Mbit/s
  95th percentile per-packet one-way delay: 51.955 ms
  Loss rate: 1.30%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2019-10-04 01:50:01
End at: 2019-10-04 01:50:31
Local clock offset: -0.072 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 522.08 Mbit/s
95th percentile per-packet one-way delay: 114.543 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 299.36 Mbit/s
95th percentile per-packet one-way delay: 124.700 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 244.82 Mbit/s
95th percentile per-packet one-way delay: 91.782 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 183.46 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 1.13%
Run 5: Report of PCC-Expr — Data Link

![Graph of network traffic throughput and latency over time for flows 1, 2, and 3, showing variations in throughput and packet delay across different time intervals.]

- Flow 1 ingress (mean 300.30 Mbit/s)
- Flow 1 egress (mean 299.36 Mbit/s)
- Flow 2 ingress (mean 245.29 Mbit/s)
- Flow 2 egress (mean 244.82 Mbit/s)
- Flow 3 ingress (mean 183.77 Mbit/s)
- Flow 3 egress (mean 183.46 Mbit/s)

Packet size: not specified
Transmission rate: not specified
Protocol: Ethernet
Link type: Ethernet
Link speed: not specified

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Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 22:56:32
End at: 2019-10-03 22:57:02
Local clock offset: -0.09 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.24 Mbit/s
  95th percentile per-packet one-way delay: 47.300 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 44.64 Mbit/s
  95th percentile per-packet one-way delay: 47.265 ms
  Loss rate: 0.57%
-- Flow 2:
  Average throughput: 61.08 Mbit/s
  95th percentile per-packet one-way delay: 47.323 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 23.58 Mbit/s
  95th percentile per-packet one-way delay: 47.259 ms
  Loss rate: 4.33%
Run 1: Report of QUIC Cubic — Data Link

![Graph](image)

- Flow 1 ingress (mean 44.74 Mbit/s)
- Flow 1 egress (mean 44.64 Mbit/s)
- Flow 2 ingress (mean 61.10 Mbit/s)
- Flow 2 egress (mean 61.08 Mbit/s)
- Flow 3 ingress (mean 24.41 Mbit/s)
- Flow 3 egress (mean 23.58 Mbit/s)

![Graph](image)

- Flow 1 (95th percentile 47.27 ms)
- Flow 2 (95th percentile 47.32 ms)
- Flow 3 (95th percentile 47.26 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 23:37:30
End at: 2019-10-03 23:38:00
Local clock offset: -0.854 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.40 Mbit/s
95th percentile per-packet one-way delay: 47.329 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 46.508 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 47.360 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 47.361 ms
Loss rate: 1.04%
Run 2: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 56.71 Mbps)
  - Flow 1 egress (mean 56.69 Mbps)
  - Flow 2 ingress (mean 38.35 Mbps)
  - Flow 2 egress (mean 38.16 Mbps)
  - Flow 3 ingress (mean 52.98 Mbps)
  - Flow 3 egress (mean 52.93 Mbps)

- **Per-packet-one-way-delay (ms):**
  - Flow 1 (95th percentile 46.51 ms)
  - Flow 2 (95th percentile 47.36 ms)
  - Flow 3 (95th percentile 47.36 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2019-10-04 00:18:27
End at: 2019-10-04 00:18:57
Local clock offset: 0.028 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.39 Mbit/s
95th percentile per-packet one-way delay: 47.280 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 52.83 Mbit/s
95th percentile per-packet one-way delay: 47.113 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 36.01 Mbit/s
95th percentile per-packet one-way delay: 47.252 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 47.333 ms
Loss rate: 0.17%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-10-04 00:58:43
End at: 2019-10-04 00:59:13
Local clock offset: 0.01 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.25 Mbit/s
95th percentile per-packet one-way delay: 47.270 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 61.39 Mbit/s
95th percentile per-packet one-way delay: 47.153 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 58.83 Mbit/s
95th percentile per-packet one-way delay: 47.296 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 51.11 Mbit/s
95th percentile per-packet one-way delay: 47.251 ms
Loss rate: 1.31%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2019-10-04 01:39:08
End at: 2019-10-04 01:39:38
Local clock offset: -0.053 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 47.184 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 56.46 Mbit/s
95th percentile per-packet one-way delay: 47.153 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 41.08 Mbit/s
95th percentile per-packet one-way delay: 47.208 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 47.197 ms
Loss rate: 0.98%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2019-10-03 23:06:27
End at: 2019-10-03 23:06:57
Local clock offset: -0.135 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 47.469 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.479 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.455 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.388 ms
  Loss rate: 1.09%
Run 1: Report of SCReAM — Data Link

![Graph showing throughput vs. time for different flows and ingress/egress data with mean 0.22 Mb/s]
Run 2: Statistics of SCReAM

Start at: 2019-10-03 23:47:25
End at: 2019-10-03 23:47:55
Local clock offset: -0.395 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 47.355 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.375 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.289 ms
  Loss rate: 0.40%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.351 ms
  Loss rate: 1.09%
Run 2: Report of SCReAM — Data Link

![Graph of throughput vs time for different flows]

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

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

- Flow 1 (95th percentile 47.38 ms)
- Flow 2 (95th percentile 47.29 ms)
- Flow 3 (95th percentile 47.35 ms)
Run 3: Statistics of SCReAM

Start at: 2019-10-04 00:28:23
End at: 2019-10-04 00:28:53
Local clock offset: 0.059 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.216 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.546 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.234 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.153 ms
Loss rate: 1.09%
Run 4: Statistics of SCReAM

Start at: 2019-10-04 01:08:23
End at: 2019-10-04 01:08:53
Local clock offset: -0.006 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 47.413 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 46.627 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.433 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 47.318 ms
  Loss rate: 1.09%
Run 4: Report of SCReAM — Data Link

![Throughput Graph]

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

![Per-packet loss vs delay Graph]

- Flow 1 (95th percentile 46.63 ms)
- Flow 2 (95th percentile 47.43 ms)
- Flow 3 (95th percentile 47.32 ms)
Run 5: Statistics of SCReAM

Start at: 2019-10-04 01:48:50
End at: 2019-10-04 01:49:20
Local clock offset: -0.09 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 47.435 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.454 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.285 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.307 ms
Loss rate: 1.09%
Run 5: Report of SCReAM — Data Link

![Graph of throughput vs time with different flow rates.]

![Graph of per-packet round-trip time vs time with different flow rates.]

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Run 1: Statistics of Sprout

End at: 2019-10-03 22:39:53
Local clock offset: -0.086 ms
Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 18.95 Mbit/s
  95th percentile per-packet one-way delay: 47.706 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 9.56 Mbit/s
  95th percentile per-packet one-way delay: 47.709 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 9.49 Mbit/s
  95th percentile per-packet one-way delay: 47.730 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 9.48 Mbit/s
  95th percentile per-packet one-way delay: 47.595 ms
  Loss rate: 0.90%
Run 1: Report of Sprout — Data Link

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

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

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Run 2: Statistics of Sprout

Start at: 2019-10-03 23:20:06
End at: 2019-10-03 23:20:36
Local clock offset: -0.61 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 47.787 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 47.828 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 9.57 Mbit/s
95th percentile per-packet one-way delay: 47.720 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 47.741 ms
Loss rate: 1.06%
Run 2: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 9.48 Mbit/s)
Flow 1 egress (mean 9.49 Mbit/s)
Flow 2 ingress (mean 9.56 Mbit/s)
Flow 2 egress (mean 9.57 Mbit/s)
Flow 3 ingress (mean 9.53 Mbit/s)
Flow 3 egress (mean 9.52 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 47.83 ms)
Flow 2 (95th percentile 47.72 ms)
Flow 3 (95th percentile 47.74 ms)
Run 3: Statistics of Sprout

Start at: 2019-10-04 00:01:06
End at: 2019-10-04 00:01:36
Local clock offset: -0.055 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.04 Mbit/s
95th percentile per-packet one-way delay: 47.641 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 9.59 Mbit/s
95th percentile per-packet one-way delay: 46.920 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 47.762 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 47.792 ms
Loss rate: 1.06%
Run 3: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 9.60 Mbit/s)
- Flow 2 ingress (mean 9.65 Mbit/s)
- Flow 3 ingress (mean 9.32 Mbit/s)
- Flow 1 egress (mean 9.59 Mbit/s)
- Flow 2 egress (mean 9.64 Mbit/s)
- Flow 3 egress (mean 9.31 Mbit/s)
Run 4: Statistics of Sprout

Start at: 2019-10-04 00:41:49
End at: 2019-10-04 00:42:19
Local clock offset: 0.119 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 47.809 ms
Loss rate: 0.42%

-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 47.798 ms
Loss rate: 0.25%

-- Flow 2:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 47.888 ms
Loss rate: 0.52%

-- Flow 3:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 47.689 ms
Loss rate: 0.75%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2019-10-04 01:21:54
End at: 2019-10-04 01:22:24
Local clock offset: -0.019 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-10-04 05:13:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.15 Mbit/s
95th percentile per-packet one-way delay: 47.541 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 47.626 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 46.890 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 46.892 ms
Loss rate: 0.98%
Run 5: Report of Sprout — Data Link

- **Throughput (Mbps)**:
  - Flow 1 ingress (mean 9.65 Mbps)
  - Flow 1 egress (mean 9.65 Mbps)
  - Flow 2 ingress (mean 9.66 Mbps)
  - Flow 2 egress (mean 9.66 Mbps)
  - Flow 3 ingress (mean 9.39 Mbps)
  - Flow 3 egress (mean 9.39 Mbps)

- **Per-packet one-way delay (ms)**:
  - Flow 1 (95th percentile 47.63 ms)
  - Flow 2 (95th percentile 46.89 ms)
  - Flow 3 (95th percentile 46.89 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 22:54:38
End at: 2019-10-03 22:55:08
Local clock offset: -0.075 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-10-04 05:17:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 461.60 Mbit/s
95th percentile per-packet one-way delay: 50.234 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 238.54 Mbit/s
95th percentile per-packet one-way delay: 48.543 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 228.12 Mbit/s
95th percentile per-packet one-way delay: 51.868 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 216.35 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 1.04%
Run 1: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 238.65 Mbit/s)
- Flow 1 egress (mean 238.54 Mbit/s)
- Flow 2 ingress (mean 228.22 Mbit/s)
- Flow 2 egress (mean 228.12 Mbit/s)
- Flow 3 ingress (mean 216.51 Mbit/s)
- Flow 3 egress (mean 216.35 Mbit/s)

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

- Flow 1 (95th percentile 48.54 ms)
- Flow 2 (95th percentile 51.87 ms)
- Flow 3 (95th percentile 53.55 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 23:35:33
End at: 2019-10-03 23:36:03
Local clock offset: -0.831 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-10-04 05:19:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 490.35 Mbit/s
  95th percentile per-packet one-way delay: 49.953 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 251.50 Mbit/s
  95th percentile per-packet one-way delay: 49.376 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 241.06 Mbit/s
  95th percentile per-packet one-way delay: 50.540 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 238.14 Mbit/s
  95th percentile per-packet one-way delay: 50.468 ms
  Loss rate: 1.04%
Run 2: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 251.50 Mbit/s)
- Flow 1 egress (mean 251.50 Mbit/s)
- Flow 2 ingress (mean 241.06 Mbit/s)
- Flow 2 egress (mean 241.06 Mbit/s)
- Flow 3 ingress (mean 238.35 Mbit/s)
- Flow 3 egress (mean 238.14 Mbit/s)
Run 3: Statistics of TaoVA-100x

Start at: 2019-10-04 00:16:32
End at: 2019-10-04 00:17:02
Local clock offset: 0.055 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-10-04 05:19:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 463.79 Mbit/s
  95th percentile per-packet one-way delay: 51.837 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 244.16 Mbit/s
  95th percentile per-packet one-way delay: 51.686 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 221.47 Mbit/s
  95th percentile per-packet one-way delay: 52.134 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 219.12 Mbit/s
  95th percentile per-packet one-way delay: 51.513 ms
  Loss rate: 1.16%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2019-10-04 00:56:49
End at: 2019-10-04 00:57:19
Local clock offset: 0.03 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2019-10-04 05:19:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.97 Mbit/s
95th percentile per-packet one-way delay: 51.001 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 223.56 Mbit/s
95th percentile per-packet one-way delay: 49.586 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 243.61 Mbit/s
95th percentile per-packet one-way delay: 50.544 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 213.68 Mbit/s
95th percentile per-packet one-way delay: 54.904 ms
Loss rate: 1.12%
Run 4: Report of TaoVA-100x — Data Link

Throughput (Mbit/s) vs. Time (s) for three different flows:
- Flow 1 ingress (mean 223.52 Mbit/s)
- Flow 1 egress (mean 223.56 Mbit/s)
- Flow 2 ingress (mean 243.60 Mbit/s)
- Flow 2 egress (mean 243.61 Mbit/s)
- Flow 3 ingress (mean 214.02 Mbit/s)
- Flow 3 egress (mean 213.68 Mbit/s)

Per-packet round-trip delay (ms) vs. Time (s) for three different flows:
- Flow 1 (95th percentile 49.59 ms)
- Flow 2 (95th percentile 50.54 ms)
- Flow 3 (95th percentile 54.90 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2019-10-04 01:37:13
End at: 2019-10-04 01:37:43
Local clock offset: -0.031 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-10-04 05:19:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.58 Mbit/s
95th percentile per-packet one-way delay: 51.335 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 246.68 Mbit/s
95th percentile per-packet one-way delay: 50.799 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 244.29 Mbit/s
95th percentile per-packet one-way delay: 50.594 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 207.43 Mbit/s
95th percentile per-packet one-way delay: 54.364 ms
Loss rate: 1.14%
Run 5: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 246.70 Mbit/s)
- Flow 1 egress (mean 246.68 Mbit/s)
- Flow 2 ingress (mean 244.36 Mbit/s)
- Flow 2 egress (mean 244.29 Mbit/s)
- Flow 3 ingress (mean 207.82 Mbit/s)
- Flow 3 egress (mean 207.43 Mbit/s)
Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 23:09:36
End at: 2019-10-03 23:10:06
Local clock offset: -0.301 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-10-04 05:19:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 906.44 Mbit/s
  95th percentile per-packet one-way delay: 103.220 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 441.04 Mbit/s
  95th percentile per-packet one-way delay: 92.424 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 489.01 Mbit/s
  95th percentile per-packet one-way delay: 117.178 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 424.50 Mbit/s
  95th percentile per-packet one-way delay: 57.931 ms
  Loss rate: 0.46%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 23:50:27
End at: 2019-10-03 23:50:57
Local clock offset: -0.273 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-10-04 05:33:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1009.55 Mbit/s
  95th percentile per-packet one-way delay: 90.456 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 540.17 Mbit/s
  95th percentile per-packet one-way delay: 70.563 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 459.72 Mbit/s
  95th percentile per-packet one-way delay: 87.156 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 495.38 Mbit/s
  95th percentile per-packet one-way delay: 96.259 ms
  Loss rate: 1.44%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2019-10-04 00:31:29
End at: 2019-10-04 00:31:59
Local clock offset: 0.123 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-10-04 05:33:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 938.72 Mbit/s
95th percentile per-packet one-way delay: 90.522 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 508.19 Mbit/s
95th percentile per-packet one-way delay: 98.154 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 423.26 Mbit/s
95th percentile per-packet one-way delay: 93.250 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 451.37 Mbit/s
95th percentile per-packet one-way delay: 75.032 ms
Loss rate: 0.64%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2019-10-04 01:11:27
End at: 2019-10-04 01:11:57
Local clock offset: -0.027 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 930.24 Mbit/s
95th percentile per-packet one-way delay: 88.168 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 531.23 Mbit/s
95th percentile per-packet one-way delay: 87.695 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 462.30 Mbit/s
95th percentile per-packet one-way delay: 113.949 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 277.26 Mbit/s
95th percentile per-packet one-way delay: 68.217 ms
Loss rate: 1.05%
Run 4: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 531.40 Mbit/s) vs. Flow 1 egress (mean 531.23 Mbit/s)
- Flow 2 ingress (mean 462.91 Mbit/s) vs. Flow 2 egress (mean 462.30 Mbit/s)
- Flow 3 ingress (mean 277.65 Mbit/s) vs. Flow 3 egress (mean 277.26 Mbit/s)

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

- Flow 1 (95th percentile 87.69 ms) vs. Flow 2 (95th percentile 113.95 ms) vs. Flow 3 (95th percentile 68.22 ms)
Run 5: Statistics of TCP Vegas

Start at: 2019-10-04 01:51:56
End at: 2019-10-04 01:52:26
Local clock offset: -0.058 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 730.74 Mbit/s
95th percentile per-packet one-way delay: 60.479 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 301.80 Mbit/s
95th percentile per-packet one-way delay: 47.932 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 512.99 Mbit/s
95th percentile per-packet one-way delay: 61.798 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 265.65 Mbit/s
95th percentile per-packet one-way delay: 58.298 ms
Loss rate: 1.02%
Run 5: Report of TCP Vegas — Data Link

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

- **Flow 1 Ingress** (mean 301.84 Mbps)
- **Flow 1 Egress** (mean 301.80 Mbps)
- **Flow 2 Ingress** (mean 513.34 Mbps)
- **Flow 2 Egress** (mean 512.99 Mbps)
- **Flow 3 Ingress** (mean 265.82 Mbps)
- **Flow 3 Egress** (mean 265.65 Mbps)

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

- **Flow 1 (95th percentile 47.93 ms)**
- **Flow 2 (95th percentile 61.80 ms)**
- **Flow 3 (95th percentile 58.30 ms)**

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Run 1: Statistics of Verus

Start at: 2019-10-03 23:16:53
End at: 2019-10-03 23:17:23
Local clock offset: -0.555 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.65 Mbit/s
95th percentile per-packet one-way delay: 94.210 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 31.07 Mbit/s
95th percentile per-packet one-way delay: 65.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 119.94 Mbit/s
95th percentile per-packet one-way delay: 108.667 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 126.72 Mbit/s
95th percentile per-packet one-way delay: 79.233 ms
Loss rate: 0.00%
Run 1: Report of Verus — Data Link

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Graph 1: Throughput (Mb/s)

- Flow 1 ingress (mean 30.03 Mb/s)
- Flow 1 egress (mean 31.07 Mb/s)
- Flow 2 ingress (mean 126.72 Mb/s)
- Flow 2 egress (mean 119.94 Mb/s)
- Flow 3 ingress (mean 126.72 Mb/s)
- Flow 3 egress (mean 126.72 Mb/s)

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

- Flow 1 (95th percentile 65.19 ms)
- Flow 2 (95th percentile 108.67 ms)
- Flow 3 (95th percentile 79.23 ms)
Run 2: Statistics of Verus

Start at: 2019-10-03 23:57:48
End at: 2019-10-03 23:58:18
Local clock offset: -0.102 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 193.04 Mbit/s
95th percentile per-packet one-way delay: 73.500 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 70.528 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 111.61 Mbit/s
95th percentile per-packet one-way delay: 66.743 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 109.93 Mbit/s
95th percentile per-packet one-way delay: 92.604 ms
Loss rate: 1.47%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 83.15 Mbit/s)
- Flow 1 egress (mean 83.15 Mbit/s)
- Flow 2 ingress (mean 111.61 Mbit/s)
- Flow 2 egress (mean 111.61 Mbit/s)
- Flow 3 ingress (mean 109.93 Mbit/s)
- Flow 3 egress (mean 109.93 Mbit/s)

- Flow 1 (95th percentile 70.53 ms)
- Flow 2 (95th percentile 66.74 ms)
- Flow 3 (95th percentile 92.60 ms)
Run 3: Statistics of Verus

Start at: 2019-10-04 00:38:39  
End at: 2019-10-04 00:39:09  
Local clock offset: 0.107 ms  
Remote clock offset: -0.033 ms  

# Below is generated by plot.py at 2019-10-04 05:35:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 150.58 Mbit/s  
95th percentile per-packet one-way delay: 79.958 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.47 Mbit/s  
95th percentile per-packet one-way delay: 94.120 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 98.73 Mbit/s  
95th percentile per-packet one-way delay: 73.082 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 68.695 ms  
Loss rate: 0.00%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2019-10-04 01:18:44
End at: 2019-10-04 01:19:14
Local clock offset: 0.372 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 139.64 Mbit/s
  95th percentile per-packet one-way delay: 64.976 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 56.38 Mbit/s
  95th percentile per-packet one-way delay: 57.996 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 86.31 Mbit/s
  95th percentile per-packet one-way delay: 66.642 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 83.39 Mbit/s
  95th percentile per-packet one-way delay: 73.896 ms
  Loss rate: 0.00%
Run 4: Report of Verus — Data Link

![Graph of throughput and delay for different flows over time. The graphs show the throughput (in Mb/s) and packet delay (in ms) for three different flows labeled as Flow 1, Flow 2, and Flow 3. The graphs illustrate the variation in throughput and delay across time for each flow.]
Run 5: Statistics of Verus

Start at: 2019-10-04 01:58:59
End at: 2019-10-04 01:59:29
Local clock offset: -0.033 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.40 Mbit/s
95th percentile per-packet one-way delay: 74.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.75 Mbit/s
95th percentile per-packet one-way delay: 80.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.77 Mbit/s
95th percentile per-packet one-way delay: 61.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 105.80 Mbit/s
95th percentile per-packet one-way delay: 60.010 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress: mean 142.75 Mbps
  - Flow 1 egress: mean 142.75 Mbps
  - Flow 2 ingress: mean 89.77 Mbps
  - Flow 2 egress: mean 89.77 Mbps
  - Flow 3 ingress: mean 105.80 Mbps
  - Flow 3 egress: mean 105.80 Mbps

- **Per-packet end-to-end delay (ms):**
  - Flow 1 (95th percentile: 80.79 ms)
  - Flow 2 (95th percentile: 61.92 ms)
  - Flow 3 (95th percentile: 60.01 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 23:11:33
End at: 2019-10-03 23:12:03
Local clock offset: -0.392 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 567.97 Mbit/s
  95th percentile per-packet one-way delay: 56.419 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 337.92 Mbit/s
  95th percentile per-packet one-way delay: 67.870 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 252.91 Mbit/s
  95th percentile per-packet one-way delay: 50.090 ms
  Loss rate: 0.47%
-- Flow 3:
  Average throughput: 189.54 Mbit/s
  95th percentile per-packet one-way delay: 67.297 ms
  Loss rate: 1.29%
Run 1: Report of PCC-Vivace — Data Link

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

- **Throughput Graph**
  - Flow 1 ingress (mean 337.09 Mbit/s)
  - Flow 1 egress (mean 337.92 Mbit/s)
  - Flow 2 ingress (mean 252.89 Mbit/s)
  - Flow 2 egress (mean 252.91 Mbit/s)
  - Flow 3 ingress (mean 190.16 Mbit/s)
  - Flow 3 egress (mean 189.54 Mbit/s)

- **Packet Loss Graph**
  - Flow 1 (95th percentile 67.87 ms)
  - Flow 2 (95th percentile 50.09 ms)
  - Flow 3 (95th percentile 67.30 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 23:52:29
End at: 2019-10-03 23:52:59
Local clock offset: -0.201 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-10-04 05:35:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 511.34 Mbit/s
  95th percentile per-packet one-way delay: 49.918 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 325.85 Mbit/s
  95th percentile per-packet one-way delay: 49.927 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 253.48 Mbit/s
  95th percentile per-packet one-way delay: 50.095 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 52.52 Mbit/s
  95th percentile per-packet one-way delay: 47.408 ms
  Loss rate: 1.30%
Run 2: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 325.82 Mbit/s)**
- **Flow 1 egress (mean 325.85 Mbit/s)**
- **Flow 2 ingress (mean 253.88 Mbit/s)**
- **Flow 2 egress (mean 253.48 Mbit/s)**
- **Flow 3 ingress (mean 52.70 Mbit/s)**
- **Flow 3 egress (mean 52.52 Mbit/s)**
Run 3: Statistics of PCC-Vivace

Start at: 2019-10-04 00:33:27
End at: 2019-10-04 00:33:57
Local clock offset: 0.073 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-04 05:35:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 544.33 Mbit/s
  95th percentile per-packet one-way delay: 50.656 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 317.63 Mbit/s
  95th percentile per-packet one-way delay: 51.299 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 249.48 Mbit/s
  95th percentile per-packet one-way delay: 49.586 ms
  Loss rate: 0.45%
-- Flow 3:
  Average throughput: 186.80 Mbit/s
  95th percentile per-packet one-way delay: 56.204 ms
  Loss rate: 1.10%
Run 3: Report of PCC-Vivace — Data Link

![Graph showing throughput and per-packet one-way delay over time for Flow 1, Flow 2, and Flow 3.]

- **Flow 1** ingress (mean 317.53 Mbit/s) and egress (mean 317.63 Mbit/s)
- **Flow 2** ingress (mean 249.39 Mbit/s) and egress (mean 249.48 Mbit/s)
- **Flow 3** ingress (mean 187.03 Mbit/s) and egress (mean 186.80 Mbit/s)
Run 4: Statistics of PCC-Vivace

Start at: 2019-10-04 01:13:26
End at: 2019-10-04 01:13:56
Local clock offset: -0.004 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-10-04 05:36:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 527.86 Mbit/s
95th percentile per-packet one-way delay: 50.645 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 328.92 Mbit/s
95th percentile per-packet one-way delay: 51.391 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 270.92 Mbit/s
95th percentile per-packet one-way delay: 50.322 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 58.23 Mbit/s
95th percentile per-packet one-way delay: 47.480 ms
Loss rate: 1.17%
Run 4: Report of PCC-Vivace — Data Link

Graph 1: Throughput vs Time (Mbit/s)
- Flow 1 ingress (mean 328.69 Mbit/s)
- Flow 1 egress (mean 328.92 Mbit/s)
- Flow 2 ingress (mean 270.63 Mbit/s)
- Flow 2 egress (mean 270.92 Mbit/s)
- Flow 3 ingress (mean 58.35 Mbit/s)
- Flow 3 egress (mean 58.23 Mbit/s)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 51.39 ms)
- Flow 2 (95th percentile 50.32 ms)
- Flow 3 (95th percentile 47.48 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2019-10-04 01:53:44
End at: 2019-10-04 01:54:14
Local clock offset: -0.113 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-10-04 05:36:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 469.23 Mbit/s
95th percentile per-packet one-way delay: 49.981 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 251.50 Mbit/s
95th percentile per-packet one-way delay: 49.469 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 234.73 Mbit/s
95th percentile per-packet one-way delay: 50.294 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 189.14 Mbit/s
95th percentile per-packet one-way delay: 60.580 ms
Loss rate: 1.30%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2019-10-03 23:01:38
End at: 2019-10-03 23:02:08
Local clock offset: -0.129 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-10-04 05:36:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 47.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 47.359 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 47.409 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 47.394 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2019-10-03 23:42:36
End at: 2019-10-03 23:43:06
Local clock offset: -0.684 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-10-04 05:36:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 47.411 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 46.539 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.08 Mbit/s
  95th percentile per-packet one-way delay: 47.398 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.454 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

- **Flow 1** ingress (mean 0.05 Mbit/s)
- **Flow 1** egress (mean 0.05 Mbit/s)
- **Flow 2** ingress (mean 0.08 Mbit/s)
- **Flow 2** egress (mean 0.08 Mbit/s)
- **Flow 3** ingress (mean 0.05 Mbit/s)
- **Flow 3** egress (mean 0.05 Mbit/s)

![Graph showing packet round trip time for different flows.]

- **Flow 1** 95th percentile 46.54 ms
- **Flow 2** 95th percentile 47.40 ms
- **Flow 3** 95th percentile 47.45 ms
Run 3: Statistics of WebRTC media

Start at: 2019-10-04 00:23:32
End at: 2019-10-04 00:24:02
Local clock offset: 0.041 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-10-04 05:36:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 47.419 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.442 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 47.411 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 47.281 ms
Loss rate: 0.05%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2019-10-04 01:03:41
End at: 2019-10-04 01:04:11
Local clock offset: 0.034 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-10-04 05:36:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 47.462 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.414 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.07 Mbit/s
  95th percentile per-packet one-way delay: 47.441 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 47.483 ms
  Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 0.05 Mbps)
- Flow 1 egress (mean 0.05 Mbps)
- Flow 2 ingress (mean 0.07 Mbps)
- Flow 2 egress (mean 0.07 Mbps)
- Flow 3 ingress (mean 0.05 Mbps)
- Flow 3 egress (mean 0.05 Mbps)

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

- Flow 1 (95th percentile 47.41 ms)
- Flow 2 (95th percentile 47.44 ms)
- Flow 3 (95th percentile 47.48 ms)
Run 5: Statistics of WebRTC media

Start at: 2019-10-04 01:44:07  
End at: 2019-10-04 01:44:37  
Local clock offset: -0.085 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-04 05:36:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 47.239 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 46.526 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 47.248 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 47.253 ms  
Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

Throughput is shown on the left graph, with peaks indicating periods of high activity.

Packet delay is shown on the right graph, with data points indicating latency for each flow.

The graphs use line graphs to represent data, with time on the x-axis and throughput/packet delay on the y-axis.

Key: Flow 1 ingress (mean 0.05 Mbit/s), Flow 1 egress (mean 0.05 Mbit/s), Flow 2 ingress (mean 0.08 Mbit/s), Flow 2 egress (mean 0.08 Mbit/s), Flow 3 ingress (mean 0.07 Mbit/s), Flow 3 egress (mean 0.07 Mbit/s).]