Pantheon Report

Data path: GCE Tokyo on ens4 (remote) → GCE Sydney 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 4.15.0-1040-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 @ de42328552b3776a75a932a94dfafdf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd8bf90cc07764d
third_party/libutp @ b3465b942e8226f2b179eaab4a906c6eb77cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtrees @ 3877225f7b5f61d6be92d708a8869fbb84eb3200
third_party/pantheon-tunnel @ f86636f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 0a16f958f60d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08f9e24eb2f974ab
third_party/proto-quic @ 7796f1a8273a86b42f1bcb8143ebc978f3c9ff42
third_party/scream-reproduce @ 90991bd421aa3131bf1f964974e1da3db2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Tokyo to GCE Sydney, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<tbody>
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<td></td>
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<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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<td>450.44</td>
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Run 1: Statistics of TCP BBR

Start at: 2019-09-19 04:33:42
End at: 2019-09-19 04:34:12
Local clock offset: -0.285 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-09-19 08:03:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 950.31 Mbit/s
  95th percentile per-packet one-way delay: 159.536 ms
  Loss rate: 1.54%
-- Flow 1:
  Average throughput: 493.97 Mbit/s
  95th percentile per-packet one-way delay: 143.817 ms
  Loss rate: 0.83%
-- Flow 2:
  Average throughput: 446.79 Mbit/s
  95th percentile per-packet one-way delay: 177.851 ms
  Loss rate: 2.37%
-- Flow 3:
  Average throughput: 483.13 Mbit/s
  95th percentile per-packet one-way delay: 124.733 ms
  Loss rate: 2.16%
Run 1: Report of TCP BBR — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 496.23 Mb/s)
Flow 1 egress (mean 493.97 Mb/s)
Flow 2 ingress (mean 454.99 Mb/s)
Flow 2 egress (mean 446.79 Mb/s)
Flow 3 ingress (mean 498.07 Mb/s)
Flow 3 egress (mean 483.13 Mb/s)

Per-packet mean delay (ms)

Time (s)

Flow 1 (95th percentile 143.82 ms)
Flow 2 (95th percentile 177.85 ms)
Flow 3 (95th percentile 124.73 ms)
Run 2: Statistics of TCP BBR

Start at: 2019-09-19 05:14:40
End at: 2019-09-19 05:15:10
Local clock offset: 0.095 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2019-09-19 08:03:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 921.10 Mbit/s
95th percentile per-packet one-way delay: 184.473 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 492.69 Mbit/s
95th percentile per-packet one-way delay: 192.220 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 480.30 Mbit/s
95th percentile per-packet one-way delay: 79.236 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 331.11 Mbit/s
95th percentile per-packet one-way delay: 65.528 ms
Loss rate: 1.68%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2019-09-19 05:55:58
End at: 2019-09-19 05:56:28
Local clock offset: -0.044 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2019-09-19 08:03:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 888.02 Mbit/s
  95th percentile per-packet one-way delay: 151.143 ms
  Loss rate: 1.14%
-- Flow 1:
  Average throughput: 450.18 Mbit/s
  95th percentile per-packet one-way delay: 126.965 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 428.27 Mbit/s
  95th percentile per-packet one-way delay: 93.530 ms
  Loss rate: 0.94%
-- Flow 3:
  Average throughput: 464.21 Mbit/s
  95th percentile per-packet one-way delay: 177.464 ms
  Loss rate: 3.83%
Run 3: Report of TCP BBR — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 449.94 Mbps)
- Flow 1 egress (mean 450.18 Mbps)
- Flow 2 ingress (mean 429.85 Mbps)
- Flow 2 egress (mean 428.27 Mbps)
- Flow 3 ingress (mean 476.99 Mbps)
- Flow 3 egress (mean 464.21 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 126.97 ms)
- Flow 2 (95th percentile 93.53 ms)
- Flow 3 (95th percentile 177.46 ms)
Run 4: Statistics of TCP BBR

Start at: 2019-09-19 06:36:57
End at: 2019-09-19 06:37:27
Local clock offset: 0.171 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 08:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 959.26 Mbit/s
95th percentile per-packet one-way delay: 173.783 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 487.37 Mbit/s
95th percentile per-packet one-way delay: 168.330 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 493.56 Mbit/s
95th percentile per-packet one-way delay: 172.249 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 435.82 Mbit/s
95th percentile per-packet one-way delay: 181.610 ms
Loss rate: 2.61%
Run 4: Report of TCP BBR — Data Link

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

- **Throughput Graph**
  - Flow 1 ingress (mean 489.96 Mbit/s)
  - Flow 1 egress (mean 487.37 Mbit/s)
  - Flow 2 ingress (mean 496.64 Mbit/s)
  - Flow 2 egress (mean 493.56 Mbit/s)
  - Flow 3 ingress (mean 442.22 Mbit/s)
  - Flow 3 egress (mean 435.82 Mbit/s)

- **Delay Graph**
  - Flow 1 (95th percentile 168.33 ms)
  - Flow 2 (95th percentile 172.25 ms)
  - Flow 3 (95th percentile 181.61 ms)
Run 5: Statistics of TCP BBR

Start at: 2019-09-19 07:18:11
End at: 2019-09-19 07:18:41
Local clock offset: -0.293 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-09-19 08:03:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 840.38 Mbit/s
  95th percentile per-packet one-way delay: 170.638 ms
  Loss rate: 1.17%
-- Flow 1:
  Average throughput: 446.58 Mbit/s
  95th percentile per-packet one-way delay: 158.494 ms
  Loss rate: 1.09%
-- Flow 2:
  Average throughput: 403.28 Mbit/s
  95th percentile per-packet one-way delay: 146.001 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 380.94 Mbit/s
  95th percentile per-packet one-way delay: 195.001 ms
  Loss rate: 2.88%
Run 5: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2019-09-19 04:29:46
End at: 2019-09-19 04:30:16
Local clock offset: -0.281 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-09-19 08:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.07 Mbit/s
95th percentile per-packet one-way delay: 76.960 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 244.30 Mbit/s
95th percentile per-packet one-way delay: 83.518 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 236.35 Mbit/s
95th percentile per-packet one-way delay: 66.480 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 229.86 Mbit/s
95th percentile per-packet one-way delay: 73.564 ms
Loss rate: 1.46%
Run 1: Report of Copa — Data Link

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

- Flow 1 ingress (mean 244.33 Mbit/s)
- Flow 1 egress (mean 244.30 Mbit/s)
- Flow 2 ingress (mean 236.47 Mbit/s)
- Flow 2 egress (mean 236.35 Mbit/s)
- Flow 3 ingress (mean 230.48 Mbit/s)
- Flow 3 egress (mean 229.86 Mbit/s)

- Per-packet one-way delay (ms)

- Flow 1 (95th percentile 83.52 ms)
- Flow 2 (95th percentile 66.48 ms)
- Flow 3 (95th percentile 73.56 ms)
Run 2: Statistics of Copa

Start at: 2019-09-19 05:10:38  
End at: 2019-09-19 05:11:08  
Local clock offset: 0.144 ms  
Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-09-19 08:03:52  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 504.27 Mbit/s  
  95th percentile per-packet one-way delay: 73.385 ms  
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 256.27 Mbit/s  
  95th percentile per-packet one-way delay: 69.576 ms  
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 247.27 Mbit/s  
  95th percentile per-packet one-way delay: 87.533 ms  
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 253.76 Mbit/s  
  95th percentile per-packet one-way delay: 77.891 ms  
  Loss rate: 1.34%
Run 2: Report of Copa — Data Link

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

Flow 1 ingress (mean 256.03 Mbit/s)  Flow 1 egress (mean 256.27 Mbit/s)
Flow 2 ingress (mean 247.34 Mbit/s)  Flow 2 egress (mean 247.27 Mbit/s)
Flow 3 ingress (mean 254.30 Mbit/s)  Flow 3 egress (mean 253.76 Mbit/s)

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

Flow 1 (95th percentile 69.58 ms)  Flow 2 (95th percentile 87.53 ms)  Flow 3 (95th percentile 77.89 ms)
Run 3: Statistics of Copa

Start at: 2019-09-19 05:51:53
End at: 2019-09-19 05:52:23
Local clock offset: 0.317 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-09-19 08:03:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.46 Mbit/s
95th percentile per-packet one-way delay: 87.914 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 274.60 Mbit/s
95th percentile per-packet one-way delay: 98.215 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 249.25 Mbit/s
95th percentile per-packet one-way delay: 81.535 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 219.50 Mbit/s
95th percentile per-packet one-way delay: 69.493 ms
Loss rate: 1.38%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2019-09-19 06:33:00
End at: 2019-09-19 06:33:30
Local clock offset: 0.303 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-09-19 08:19:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.50 Mbit/s
95th percentile per-packet one-way delay: 67.423 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 274.56 Mbit/s
95th percentile per-packet one-way delay: 70.204 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 275.63 Mbit/s
95th percentile per-packet one-way delay: 65.578 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 241.53 Mbit/s
95th percentile per-packet one-way delay: 62.058 ms
Loss rate: 1.34%
Run 4: Report of Copa — Data Link

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

- **Flow 1**: Ingress (mean 274.58 Mbit/s), Egress (mean 274.56 Mbit/s)
- **Flow 2**: Ingress (mean 275.71 Mbit/s), Egress (mean 275.63 Mbit/s)
- **Flow 3**: Ingress (mean 242.01 Mbit/s), Egress (mean 241.53 Mbit/s)

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

- **Flow 1**: 95th percentile 70.20 ms
- **Flow 2**: 95th percentile 65.58 ms
- **Flow 3**: 95th percentile 62.06 ms
Run 5: Statistics of Copa

Start at: 2019-09-19 07:14:13
End at: 2019-09-19 07:14:43
Local clock offset: -0.313 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-09-19 08:20:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.01 Mbit/s
95th percentile per-packet one-way delay: 72.482 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 255.09 Mbit/s
95th percentile per-packet one-way delay: 66.397 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 294.51 Mbit/s
95th percentile per-packet one-way delay: 77.586 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 261.17 Mbit/s
95th percentile per-packet one-way delay: 65.969 ms
Loss rate: 1.33%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 235.07 Mbit/s)
- Flow 1 egress (mean 255.09 Mbit/s)
- Flow 2 ingress (mean 294.54 Mbit/s)
- Flow 2 egress (mean 294.51 Mbit/s)
- Flow 3 ingress (mean 261.65 Mbit/s)
- Flow 3 egress (mean 261.17 Mbit/s)

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

- Flow 1 (95th percentile 66.40 ms)
- Flow 2 (95th percentile 77.59 ms)
- Flow 3 (95th percentile 65.97 ms)
Run 1: Statistics of TCP Cubic

Start at: 2019-09-19 04:31:43
End at: 2019-09-19 04:32:13
Local clock offset: 0.301 ms
Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-09-19 08:20:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 911.57 Mbit/s
  95th percentile per-packet one-way delay: 99.423 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 465.97 Mbit/s
  95th percentile per-packet one-way delay: 102.150 ms
  Loss rate: 0.52%
-- Flow 2:
  Average throughput: 459.43 Mbit/s
  95th percentile per-packet one-way delay: 78.031 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 424.53 Mbit/s
  95th percentile per-packet one-way delay: 102.552 ms
  Loss rate: 1.24%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2019-09-19 05:12:37
End at: 2019-09-19 05:13:07
Local clock offset: -0.079 ms
Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2019-09-19 08:20:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 993.94 Mbit/s
  95th percentile per-packet one-way delay: 95.939 ms
  Loss rate: 0.75%
-- Flow 1:
  Average throughput: 532.78 Mbit/s
  95th percentile per-packet one-way delay: 94.640 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 463.24 Mbit/s
  95th percentile per-packet one-way delay: 84.826 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 464.30 Mbit/s
  95th percentile per-packet one-way delay: 108.056 ms
  Loss rate: 1.76%
Run 2: Report of TCP Cubic — Data Link

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

Start at: 2019-09-19 05:53:54
End at: 2019-09-19 05:54:24
Local clock offset: -0.036 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-09-19 08:21:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1015.58 Mbit/s
  95th percentile per-packet one-way delay: 95.046 ms
  Loss rate: 0.62%
-- Flow 1:
  Average throughput: 529.34 Mbit/s
  95th percentile per-packet one-way delay: 89.584 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 507.67 Mbit/s
  95th percentile per-packet one-way delay: 89.161 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 450.62 Mbit/s
  95th percentile per-packet one-way delay: 112.146 ms
  Loss rate: 1.49%
Run 3: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay over time for different flow rates and times.]

- **Flow 1 ingress (mean 529.06 Mbit/s)**
- **Flow 1 egress (mean 529.34 Mbit/s)**
- **Flow 2 ingress (mean 508.20 Mbit/s)**
- **Flow 2 egress (mean 507.67 Mbit/s)**
- **Flow 3 ingress (mean 452.18 Mbit/s)**
- **Flow 3 egress (mean 450.62 Mbit/s)**

- Per packet one-way delay (ms)

- **Flow 1 (95th percentile 89.58 ms)**
- **Flow 2 (95th percentile 89.16 ms)**
- **Flow 3 (95th percentile 112.15 ms)**
Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 06:35:03
End at: 2019-09-19 06:35:33
Local clock offset: -0.495 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-09-19 08:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 808.28 Mbit/s
95th percentile per-packet one-way delay: 120.095 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 496.53 Mbit/s
95th percentile per-packet one-way delay: 120.608 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 238.41 Mbit/s
95th percentile per-packet one-way delay: 79.702 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 464.42 Mbit/s
95th percentile per-packet one-way delay: 109.614 ms
Loss rate: 1.66%
Run 4: Report of TCP Cubic — Data Link

[Graphs showing throughput and per-packet one-way delay for different flows over time]
Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 07:16:15
End at: 2019-09-19 07:16:45
Local clock offset: -0.083 ms
Remote clock offset: -0.768 ms

# Below is generated by plot.py at 2019-09-19 08:21:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 857.25 Mbit/s
95th percentile per-packet one-way delay: 148.328 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 472.00 Mbit/s
95th percentile per-packet one-way delay: 107.099 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 412.89 Mbit/s
95th percentile per-packet one-way delay: 204.325 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 335.75 Mbit/s
95th percentile per-packet one-way delay: 87.534 ms
Loss rate: 1.03%
Run 5: Report of TCP Cubic — Data Link

![Graphs showing throughput and round-trip delay over time for different flows.](image-url)
Run 1: Statistics of FillP

Start at: 2019-09-19 04:24:49  
End at: 2019-09-19 04:25:19  
Local clock offset: 0.114 ms  
Remote clock offset: 0.04 ms  

# Below is generated by plot.py at 2019-09-19 08:23:03  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 893.07 Mbit/s  
95th percentile per-packet one-way delay: 94.513 ms  
Loss rate: 0.52%  

-- Flow 1:  
Average throughput: 567.33 Mbit/s  
95th percentile per-packet one-way delay: 102.275 ms  
Loss rate: 0.40%  

-- Flow 2:  
Average throughput: 349.28 Mbit/s  
95th percentile per-packet one-way delay: 61.048 ms  
Loss rate: 0.43%  

-- Flow 3:  
Average throughput: 285.57 Mbit/s  
95th percentile per-packet one-way delay: 62.921 ms  
Loss rate: 1.45%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2019-09-19 05:05:43
End at: 2019-09-19 05:06:13
Local clock offset: -0.295 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-09-19 08:35:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 823.77 Mbit/s
95th percentile per-packet one-way delay: 96.419 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 502.64 Mbit/s
95th percentile per-packet one-way delay: 105.678 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 360.46 Mbit/s
95th percentile per-packet one-way delay: 61.970 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 249.25 Mbit/s
95th percentile per-packet one-way delay: 60.268 ms
Loss rate: 1.47%
Run 2: Report of FillP — Data Link

[Graphs showing throughput and packet delay over time for different flows, with legends indicating mean values for each flow's ingress and egress.]
Run 3: Statistics of FillP

Start at: 2019-09-19 05:47:05
End at: 2019-09-19 05:47:35
Local clock offset: -0.048 ms
Remote clock offset: 0.774 ms

# Below is generated by plot.py at 2019-09-19 08:36:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 828.79 Mbit/s
95th percentile per-packet one-way delay: 108.689 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 535.22 Mbit/s
95th percentile per-packet one-way delay: 111.243 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 328.23 Mbit/s
95th percentile per-packet one-way delay: 61.228 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 230.15 Mbit/s
95th percentile per-packet one-way delay: 57.731 ms
Loss rate: 1.42%
Run 3: Report of FillP — Data Link

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

- **Flow 1 Ingress (mean 537.08 Mbps)**
- **Flow 1 Egress (mean 535.22 Mbps)**
- **Flow 2 Ingress (mean 327.92 Mbps)**
- **Flow 2 Egress (mean 328.23 Mbps)**
- **Flow 3 Ingress (mean 230.75 Mbps)**
- **Flow 3 Egress (mean 230.15 Mbps)**

![Graph 2: Per Packet One Way Delay (ms)]

- **Flow 1 (95th percentile 111.24 ms)**
- **Flow 2 (95th percentile 61.23 ms)**
- **Flow 3 (95th percentile 57.73 ms)**
Run 4: Statistics of FillP

Start at: 2019-09-19 06:28:06
End at: 2019-09-19 06:28:36
Local clock offset: -0.272 ms
Remote clock offset: -0.85 ms

# Below is generated by plot.py at 2019-09-19 08:37:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 831.31 Mbit/s
  95th percentile per-packet one-way delay: 108.300 ms
  Loss rate: 0.73%
-- Flow 1:
  Average throughput: 514.06 Mbit/s
  95th percentile per-packet one-way delay: 112.839 ms
  Loss rate: 0.81%
-- Flow 2:
  Average throughput: 346.21 Mbit/s
  95th percentile per-packet one-way delay: 77.749 ms
  Loss rate: 0.41%
-- Flow 3:
  Average throughput: 267.14 Mbit/s
  95th percentile per-packet one-way delay: 61.469 ms
  Loss rate: 1.12%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2019-09-19 07:09:16
End at: 2019-09-19 07:09:46
Local clock offset: -0.028 ms
Remote clock offset: 0.876 ms

# Below is generated by plot.py at 2019-09-19 08:38:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 880.42 Mbit/s
95th percentile per-packet one-way delay: 101.838 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 560.68 Mbit/s
95th percentile per-packet one-way delay: 106.165 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 343.14 Mbit/s
95th percentile per-packet one-way delay: 60.414 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 279.58 Mbit/s
95th percentile per-packet one-way delay: 66.019 ms
Loss rate: 1.08%
Run 5: Report of FillP — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 Ingress (mean 562.13 Mb/s)  Flow 1 Egress (mean 560.68 Mb/s)
Flow 2 Ingress (mean 342.87 Mb/s)  Flow 2 Egress (mean 343.14 Mb/s)
Flow 3 Ingress (mean 278.97 Mb/s)  Flow 3 Egress (mean 279.58 Mb/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 106.17 ms)  Flow 2 (95th percentile 60.41 ms)  Flow 3 (95th percentile 66.02 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2019-09-19 04:14:32
End at: 2019-09-19 04:15:02
Local clock offset: -0.124 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-09-19 08:38:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 843.54 Mbit/s
  95th percentile per-packet one-way delay: 83.601 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 528.98 Mbit/s
  95th percentile per-packet one-way delay: 99.613 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 355.32 Mbit/s
  95th percentile per-packet one-way delay: 66.733 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 239.25 Mbit/s
  95th percentile per-packet one-way delay: 60.061 ms
  Loss rate: 1.39%
Run 1: Report of FillP-Sheep — Data Link

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

- Flow 1 Ingress (mean 528.76 Mbps/s)
- Flow 1 Egress (mean 528.98 Mbps/s)
- Flow 2 Ingress (mean 355.13 Mbps/s)
- Flow 2 Egress (mean 355.32 Mbps/s)
- Flow 3 Ingress (mean 239.97 Mbps/s)
- Flow 3 Egress (mean 239.25 Mbps/s)

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

- Flow 1 (95th percentile 99.61 ms)
- Flow 2 (95th percentile 66.73 ms)
- Flow 3 (95th percentile 60.06 ms)
Run 2: Statistics of FillP-Sheep

End at: 2019-09-19 04:55:58
Local clock offset: -0.109 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-09-19 08:38:57
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 791.91 Mbit/s
 95th percentile per-packet one-way delay: 78.301 ms
 Loss rate: 0.43%
-- Flow 1:
 Average throughput: 503.13 Mbit/s
 95th percentile per-packet one-way delay: 85.428 ms
 Loss rate: 0.29%
-- Flow 2:
 Average throughput: 303.40 Mbit/s
 95th percentile per-packet one-way delay: 59.693 ms
 Loss rate: 0.45%
-- Flow 3:
 Average throughput: 265.82 Mbit/s
 95th percentile per-packet one-way delay: 60.782 ms
 Loss rate: 1.16%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2019-09-19 05:36:50
End at: 2019-09-19 05:37:20
Local clock offset: 0.103 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-09-19 08:38:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 763.11 Mbit/s
95th percentile per-packet one-way delay: 99.766 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 488.50 Mbit/s
95th percentile per-packet one-way delay: 102.837 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 298.85 Mbit/s
95th percentile per-packet one-way delay: 60.548 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 232.20 Mbit/s
95th percentile per-packet one-way delay: 62.483 ms
Loss rate: 1.35%
Run 3: Report of FillP-Sheep — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 Ingress (mean 489.56 Mb/s)
Flow 1 Egress (mean 488.50 Mb/s)
Flow 2 Ingress (mean 298.59 Mb/s)
Flow 2 Egress (mean 298.85 Mb/s)
Flow 3 Ingress (mean 232.78 Mb/s)
Flow 3 Egress (mean 232.20 Mb/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 102.84 ms)
Flow 2 (95th percentile 60.55 ms)
Flow 3 (95th percentile 62.48 ms)
Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 06:17:49
End at: 2019-09-19 06:18:19
Local clock offset: -0.256 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-09-19 08:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 789.25 Mbit/s
95th percentile per-packet one-way delay: 89.123 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 501.95 Mbit/s
95th percentile per-packet one-way delay: 104.064 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 309.92 Mbit/s
95th percentile per-packet one-way delay: 60.356 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 247.43 Mbit/s
95th percentile per-packet one-way delay: 59.509 ms
Loss rate: 1.42%
Run 4: Report of FillP-Sheep — Data Link

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

Start at: 2019-09-19 06:59:03
End at: 2019-09-19 06:59:33
Local clock offset: -0.477 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 782.22 Mbit/s
95th percentile per-packet one-way delay: 83.871 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 497.69 Mbit/s
95th percentile per-packet one-way delay: 88.100 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 307.85 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 243.79 Mbit/s
95th percentile per-packet one-way delay: 62.789 ms
Loss rate: 1.46%
Run 5: Report of FillP-Sheep — Data Link
Run 1: Statistics of Indigo

Start at: 2019-09-19 04:23:02
End at: 2019-09-19 04:23:32
Local clock offset: 0.193 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 372.35 Mbit/s
95th percentile per-packet one-way delay: 63.722 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 212.80 Mbit/s
95th percentile per-packet one-way delay: 64.301 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 183.01 Mbit/s
95th percentile per-packet one-way delay: 63.270 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 102.80 Mbit/s
95th percentile per-packet one-way delay: 58.410 ms
Loss rate: 1.34%
Run 1: Report of Indigo — Data Link

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

Flow 1 ingress (mean 212.92 Mbit/s)  Flow 1 egress (mean 212.80 Mbit/s)
Flow 2 ingress (mean 183.75 Mbit/s)  Flow 2 egress (mean 183.01 Mbit/s)
Flow 3 ingress (mean 103.37 Mbit/s)  Flow 3 egress (mean 102.90 Mbit/s)

Flow 1 (95th percentile 64.30 ms)  Flow 2 (95th percentile 63.27 ms)  Flow 3 (95th percentile 58.41 ms)
Run 2: Statistics of Indigo

Start at: 2019-09-19 05:03:55
End at: 2019-09-19 05:04:25
Local clock offset: -0.096 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.81 Mbit/s
95th percentile per-packet one-way delay: 61.027 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 205.79 Mbit/s
95th percentile per-packet one-way delay: 61.384 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 182.85 Mbit/s
95th percentile per-packet one-way delay: 60.814 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 162.58 Mbit/s
95th percentile per-packet one-way delay: 60.299 ms
Loss rate: 1.40%
Run 2: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 205.89 Mbit/s)
- Flow 1 egress (mean 205.79 Mbit/s)
- Flow 2 ingress (mean 182.88 Mbit/s)
- Flow 2 egress (mean 182.85 Mbit/s)
- Flow 3 ingress (mean 162.94 Mbit/s)
- Flow 3 egress (mean 162.58 Mbit/s)
Run 3: Statistics of Indigo

Start at: 2019-09-19 05:45:16
End at: 2019-09-19 05:45:46
Local clock offset: -0.128 ms
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.53 Mbit/s
95th percentile per-packet one-way delay: 61.082 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 214.23 Mbit/s
95th percentile per-packet one-way delay: 61.682 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 188.88 Mbit/s
95th percentile per-packet one-way delay: 60.204 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 155.88 Mbit/s
95th percentile per-packet one-way delay: 59.850 ms
Loss rate: 1.40%
Run 3: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 214.16 Mbit/s)**
- **Flow 1 egress (mean 214.23 Mbit/s)**
- **Flow 2 ingress (mean 188.93 Mbit/s)**
- **Flow 2 egress (mean 188.88 Mbit/s)**
- **Flow 3 ingress (mean 156.21 Mbit/s)**
- **Flow 3 egress (mean 155.88 Mbit/s)**
Run 4: Statistics of Indigo

Start at: 2019-09-19 06:26:16
End at: 2019-09-19 06:26:46
Local clock offset: 0.164 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.36 Mbit/s
95th percentile per-packet one-way delay: 63.111 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 214.42 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 202.31 Mbit/s
95th percentile per-packet one-way delay: 61.548 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 146.27 Mbit/s
95th percentile per-packet one-way delay: 62.095 ms
Loss rate: 1.34%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2019-09-19 07:07:27
End at: 2019-09-19 07:07:57
Local clock offset: -0.049 ms
Remote clock offset: 0.614 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 393.15 Mbit/s
95th percentile per-packet one-way delay: 63.616 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 214.09 Mbit/s
95th percentile per-packet one-way delay: 65.052 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 195.24 Mbit/s
95th percentile per-packet one-way delay: 59.599 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 149.65 Mbit/s
95th percentile per-packet one-way delay: 58.934 ms
Loss rate: 1.42%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-19 04:12:44
End at: 2019-09-19 04:13:14
Local clock offset: 0.166 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-09-19 08:53:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 751.35 Mbit/s
95th percentile per-packet one-way delay: 66.768 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 442.50 Mbit/s
95th percentile per-packet one-way delay: 69.007 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 384.05 Mbit/s
95th percentile per-packet one-way delay: 63.185 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 260.72 Mbit/s
95th percentile per-packet one-way delay: 59.594 ms
Loss rate: 1.40%
Run 1: Report of Indigo-MusesC3 — Data Link

The graph above shows the throughput of different flows over time. The x-axis represents time in seconds (s), and the y-axis represents throughput in Mbit/s. The legend indicates the mean throughput for each flow:

- **Flow 1 ingress** (mean 441.07 Mbit/s)
- **Flow 1 egress** (mean 442.50 Mbit/s)
- **Flow 2 ingress** (mean 383.02 Mbit/s)
- **Flow 2 egress** (mean 384.05 Mbit/s)
- **Flow 3 ingress** (mean 260.12 Mbit/s)
- **Flow 3 egress** (mean 260.72 Mbit/s)

The lower graph displays the per-packet one-way delay in ms. The legend indicates the 95th percentile delay for each flow:

- **Flow 1** (95th percentile 69.01 ms)
- **Flow 2** (95th percentile 63.19 ms)
- **Flow 3** (95th percentile 59.59 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-19 04:53:39
End at: 2019-09-19 04:54:09
Local clock offset: -0.474 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-09-19 08:53:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 763.51 Mbit/s
  95th percentile per-packet one-way delay: 71.247 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 463.48 Mbit/s
  95th percentile per-packet one-way delay: 76.724 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 369.78 Mbit/s
  95th percentile per-packet one-way delay: 61.468 ms
  Loss rate: 0.44%
-- Flow 3:
  Average throughput: 256.32 Mbit/s
  95th percentile per-packet one-way delay: 60.364 ms
  Loss rate: 2.60%
Run 2: Report of Indigo-MusesC3 — Data Link

![Throughput and Packet Delay Graphs](image)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-19 05:35:02
End at: 2019-09-19 05:35:32
Local clock offset: -0.081 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-09-19 09:02:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 766.34 Mbit/s
95th percentile per-packet one-way delay: 69.054 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 450.52 Mbit/s
95th percentile per-packet one-way delay: 69.620 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 383.94 Mbit/s
95th percentile per-packet one-way delay: 70.812 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 274.55 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 1.92%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 06:16:04
End at: 2019-09-19 06:16:34
Local clock offset: -0.273 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-09-19 09:02:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 693.84 Mbit/s
  95th percentile per-packet one-way delay: 67.820 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 416.69 Mbit/s
  95th percentile per-packet one-way delay: 70.434 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 346.26 Mbit/s
  95th percentile per-packet one-way delay: 66.445 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 218.79 Mbit/s
  95th percentile per-packet one-way delay: 59.309 ms
  Loss rate: 2.70%
Run 4: Report of Indigo-MusesC3 — Data Link

![Graph 1](image1.png)

- Flow 1 ingress (mean 416.55 Mbit/s)
- Flow 1 egress (mean 416.69 Mbit/s)
- Flow 2 ingress (mean 345.85 Mbit/s)
- Flow 2 egress (mean 346.26 Mbit/s)
- Flow 3 ingress (mean 221.30 Mbit/s)
- Flow 3 egress (mean 218.79 Mbit/s)

![Graph 2](image2.png)

- Flow 1 (95th percentile 70.43 ms)
- Flow 2 (95th percentile 66.44 ms)
- Flow 3 (95th percentile 59.31 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 06:57:14
End at: 2019-09-19 06:57:44
Local clock offset: -0.442 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-09-19 09:03:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 742.45 Mbit/s
95th percentile per-packet one-way delay: 63.043 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 441.07 Mbit/s
95th percentile per-packet one-way delay: 64.981 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 363.78 Mbit/s
95th percentile per-packet one-way delay: 60.363 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 276.16 Mbit/s
95th percentile per-packet one-way delay: 59.335 ms
Loss rate: 2.14%
Run 5: Report of Indigo-MusesC3 — Data Link

![Graph](image1)

![Graph](image2)
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-19 04:04:15  
End at: 2019-09-19 04:04:45  
Local clock offset: -0.127 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-09-19 09:05:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 786.92 Mbit/s  
95th percentile per-packet one-way delay: 82.964 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 455.96 Mbit/s  
95th percentile per-packet one-way delay: 89.172 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 417.39 Mbit/s  
95th percentile per-packet one-way delay: 64.222 ms  
Loss rate: 0.72%  
-- Flow 3:  
Average throughput: 256.29 Mbit/s  
95th percentile per-packet one-way delay: 66.782 ms  
Loss rate: 1.69%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-19 04:45:20
End at: 2019-09-19 04:45:50
Local clock offset: 0.331 ms
Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2019-09-19 09:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 788.70 Mbit/s
95th percentile per-packet one-way delay: 86.793 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 499.15 Mbit/s
95th percentile per-packet one-way delay: 86.575 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 406.47 Mbit/s
95th percentile per-packet one-way delay: 90.683 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 118.80 Mbit/s
95th percentile per-packet one-way delay: 61.114 ms
Loss rate: 1.25%
Run 2: Report of Indigo-MusesC5 — Data Link

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

**Throughput (Mb/s)**
- Flow 1 ingress (mean 498.45 Mb/s)
- Flow 1 egress (mean 499.15 Mb/s)
- Flow 2 ingress (mean 405.95 Mb/s)
- Flow 2 egress (mean 406.47 Mb/s)
- Flow 3 ingress (mean 118.43 Mb/s)
- Flow 3 egress (mean 118.90 Mb/s)

**Per-packet round trip delay (ms)**
- Flow 1 (95th percentile 86.58 ms)
- Flow 2 (95th percentile 90.68 ms)
- Flow 3 (95th percentile 61.11 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-19 05:26:24
End at: 2019-09-19 05:26:54
Local clock offset: 0.169 ms
Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2019-09-19 09:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 735.88 Mbit/s
95th percentile per-packet one-way delay: 97.182 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 473.15 Mbit/s
95th percentile per-packet one-way delay: 107.274 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 378.42 Mbit/s
95th percentile per-packet one-way delay: 62.179 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 58.162 ms
Loss rate: 2.06%
Run 3: Report of Indigo-MusesC5 — Data Link

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

- Flow 1 ingress (mean 471.89 Mbit/s)
- Flow 1 egress (mean 473.15 Mbit/s)
- Flow 2 ingress (mean 378.72 Mbit/s)
- Flow 2 egress (mean 378.42 Mbit/s)
- Flow 3 ingress (mean 91.28 Mbit/s)
- Flow 3 egress (mean 90.88 Mbit/s)

- Flow 1 (95th percentile 107.27 ms)
- Flow 2 (95th percentile 62.18 ms)
- Flow 3 (95th percentile 58.16 ms)
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 06:07:36  
End at: 2019-09-19 06:08:06  
Local clock offset: -0.495 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-09-19 09:06:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 771.09 Mbit/s  
95th percentile per-packet one-way delay: 98.911 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 485.69 Mbit/s  
95th percentile per-packet one-way delay: 103.741 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 415.59 Mbit/s  
95th percentile per-packet one-way delay: 62.881 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 105.27 Mbit/s  
95th percentile per-packet one-way delay: 57.395 ms  
Loss rate: 1.66%
Run 4: Report of Indigo-MusesC5 — Data Link

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

Legend:
- Flow 1 ingress (mean 484.94 Mbit/s)
- Flow 1 egress (mean 485.69 Mbit/s)
- Flow 2 ingress (mean 415.20 Mbit/s)
- Flow 2 egress (mean 415.99 Mbit/s)
- Flow 3 ingress (mean 105.47 Mbit/s)
- Flow 3 egress (mean 105.27 Mbit/s)

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Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 06:48:34
End at: 2019-09-19 06:49:04
Local clock offset: 0.134 ms
Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2019-09-19 09:07:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 775.83 Mbit/s
95th percentile per-packet one-way delay: 129.790 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 434.41 Mbit/s
95th percentile per-packet one-way delay: 98.730 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 423.65 Mbit/s
95th percentile per-packet one-way delay: 153.143 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 286.56 Mbit/s
95th percentile per-packet one-way delay: 80.332 ms
Loss rate: 2.31%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-19 04:06:05
End at: 2019-09-19 04:06:35
Local clock offset: 0.157 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-09-19 09:14:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 684.43 Mbit/s  
  95th percentile per-packet one-way delay: 64.244 ms 
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 409.27 Mbit/s  
  95th percentile per-packet one-way delay: 64.818 ms 
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 342.05 Mbit/s  
  95th percentile per-packet one-way delay: 61.244 ms 
  Loss rate: 0.52%
-- Flow 3:
  Average throughput: 234.02 Mbit/s  
  95th percentile per-packet one-way delay: 58.835 ms 
  Loss rate: 1.83%
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-19 04:47:10
End at: 2019-09-19 04:47:40
Local clock offset: 0.361 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-09-19 09:15:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 713.54 Mbit/s
95th percentile per-packet one-way delay: 84.748 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 429.87 Mbit/s
95th percentile per-packet one-way delay: 90.334 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 360.28 Mbit/s
95th percentile per-packet one-way delay: 68.455 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 230.84 Mbit/s
95th percentile per-packet one-way delay: 60.592 ms
Loss rate: 2.24%
Run 2: Report of Indigo-MusesD — Data Link

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

Legend:
- Flow 1 ingress (mean 429.24 Mbit/s)
- Flow 1 egress (mean 429.87 Mbit/s)
- Flow 2 ingress (mean 359.59 Mbit/s)
- Flow 2 egress (mean 360.28 Mbit/s)
- Flow 3 ingress (mean 232.32 Mbit/s)
- Flow 3 egress (mean 230.84 Mbit/s)
Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-19 05:28:12
End at: 2019-09-19 05:28:42
Local clock offset: -0.085 ms
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-09-19 09:16:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 710.65 Mbit/s
95th percentile per-packet one-way delay: 70.164 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 407.25 Mbit/s
95th percentile per-packet one-way delay: 78.587 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 369.72 Mbit/s
95th percentile per-packet one-way delay: 60.954 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 252.22 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 1.48%
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 406.71 Mbit/s)
- Flow 1 egress (mean 407.25 Mbit/s)
- Flow 2 ingress (mean 369.31 Mbit/s)
- Flow 2 egress (mean 369.72 Mbit/s)
- Flow 3 ingress (mean 252.20 Mbit/s)
- Flow 3 egress (mean 252.22 Mbit/s)
Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 06:09:25
End at: 2019-09-19 06:09:55
Local clock offset: -0.138 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-09-19 09:17:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 690.71 Mbit/s
95th percentile per-packet one-way delay: 70.182 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 401.68 Mbit/s
95th percentile per-packet one-way delay: 80.153 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 355.47 Mbit/s
95th percentile per-packet one-way delay: 60.343 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 244.43 Mbit/s
95th percentile per-packet one-way delay: 60.361 ms
Loss rate: 1.59%
Run 4: Report of Indigo-MusesD — Data Link

![Diagram showing data link performance over time with throughput and packet delay metrics for different flows.](image-url)

Legend:
- Blue dashed line: Flow 1 ingress (mean 401.16 Mbit/s)
- Blue solid line: Flow 1 egress (mean 401.68 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 355.25 Mbit/s)
- Green solid line: Flow 2 egress (mean 355.47 Mbit/s)
- Black dashed line: Flow 3 ingress (mean 244.50 Mbit/s)
- Black solid line: Flow 3 egress (mean 244.43 Mbit/s)

![Diagram showing packet delay over time for different flows.](image-url)

Legend:
- Blue circles: Flow 1 (95th percentile 80.15 ms)
- Green circles: Flow 2 (95th percentile 60.34 ms)
- Red circles: Flow 3 (95th percentile 60.36 ms)
Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 06:50:25
End at: 2019-09-19 06:50:55
Local clock offset: -0.324 ms
Remote clock offset: 0.499 ms

# Below is generated by plot.py at 2019-09-19 09:18:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 700.17 Mbit/s
95th percentile per-packet one-way delay: 74.683 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 394.63 Mbit/s
95th percentile per-packet one-way delay: 73.805 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 370.60 Mbit/s
95th percentile per-packet one-way delay: 76.850 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 269.05 Mbit/s
95th percentile per-packet one-way delay: 59.026 ms
Loss rate: 2.08%
Run 5: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 394.22 Mbit/s)
- Flow 1 egress (mean 394.63 Mbit/s)
- Flow 2 ingress (mean 370.28 Mbit/s)
- Flow 2 egress (mean 370.68 Mbit/s)
- Flow 3 ingress (mean 270.39 Mbit/s)
- Flow 3 egress (mean 269.05 Mbit/s)
Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-19 04:38:55
End at: 2019-09-19 04:39:25
Local clock offset: 0.299 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-09-19 09:20:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 818.44 Mbit/s
95th percentile per-packet one-way delay: 98.395 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 487.20 Mbit/s
95th percentile per-packet one-way delay: 102.938 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 407.85 Mbit/s
95th percentile per-packet one-way delay: 81.177 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 291.27 Mbit/s
95th percentile per-packet one-way delay: 61.392 ms
Loss rate: 2.09%
Run 1: Report of Indigo-MusesT — Data Link

**Graph 1:**
- **X-axis:** Time (s)
- **Y-axis:** Throughput (Mbit/s)
- Lines indicate different flows with their respective ingress and egress throughput averages.

**Graph 2:**
- **X-axis:** Time (s)
- **Y-axis:** Per-packet one way delay (ms)
- Differentiated delays for each flow with specified 95th percentile delays.

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Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-19 05:19:53
End at: 2019-09-19 05:20:23
Local clock offset: -0.101 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-09-19 09:20:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 776.33 Mbit/s
95th percentile per-packet one-way delay: 114.514 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 492.69 Mbit/s
95th percentile per-packet one-way delay: 121.128 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 401.75 Mbit/s
95th percentile per-packet one-way delay: 63.330 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 112.57 Mbit/s
95th percentile per-packet one-way delay: 57.540 ms
Loss rate: 1.59%
Run 2: Report of Indigo-MusesT — Data Link
Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-19 06:01:08
End at: 2019-09-19 06:01:38
Local clock offset: -0.074 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-09-19 09:21:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 790.11 Mbit/s
95th percentile per-packet one-way delay: 105.860 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 480.38 Mbit/s
95th percentile per-packet one-way delay: 110.568 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 381.55 Mbit/s
95th percentile per-packet one-way delay: 63.000 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 275.65 Mbit/s
95th percentile per-packet one-way delay: 64.124 ms
Loss rate: 2.49%
Run 3: Report of Indigo-MusesT — Data Link

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

- **Flow 1 ingress (mean 479.34 Mbit/s)**
- **Flow 1 egress (mean 480.38 Mbit/s)**
- **Flow 2 ingress (mean 381.10 Mbit/s)**
- **Flow 2 egress (mean 381.55 Mbit/s)**
- **Flow 3 ingress (mean 276.14 Mbit/s)**
- **Flow 3 egress (mean 275.65 Mbit/s)**

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

- **Flow 1 (95th percentile 110.57 ms)**
- **Flow 2 (95th percentile 63.00 ms)**
- **Flow 3 (95th percentile 64.12 ms)**
Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-19 06:42:09
End at: 2019-09-19 06:42:39
Local clock offset: -0.165 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-09-19 09:27:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 789.91 Mbit/s
95th percentile per-packet one-way delay: 114.431 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 474.87 Mbit/s
95th percentile per-packet one-way delay: 118.198 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 383.09 Mbit/s
95th percentile per-packet one-way delay: 60.549 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 288.57 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 2.64%
Run 4: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 473.74 Mbit/s)
- Flow 1 egress (mean 474.87 Mbit/s)
- Flow 2 ingress (mean 382.35 Mbit/s)
- Flow 2 egress (mean 383.09 Mbit/s)
- Flow 3 ingress (mean 290.81 Mbit/s)
- Flow 3 egress (mean 288.57 Mbit/s)
Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-19 07:23:19
End at: 2019-09-19 07:23:49
Local clock offset: -0.332 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 787.12 Mbit/s
95th percentile per-packet one-way delay: 92.327 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 469.01 Mbit/s
95th percentile per-packet one-way delay: 108.700 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 386.91 Mbit/s
95th percentile per-packet one-way delay: 63.733 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 268.58 Mbit/s
95th percentile per-packet one-way delay: 61.973 ms
Loss rate: 2.02%
Run 5: Report of Indigo-MusesT — Data Link
Run 1: Statistics of LEDBAT

Start at: 2019-09-19 04:18:13
End at: 2019-09-19 04:18:43
Local clock offset: -0.098 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 60.151 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 28.15 Mbit/s
95th percentile per-packet one-way delay: 58.327 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 17.94 Mbit/s
95th percentile per-packet one-way delay: 57.717 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 8.82 Mbit/s
95th percentile per-packet one-way delay: 60.462 ms
Loss rate: 2.39%
Run 1: Report of LEDBAT — Data Link

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

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

Start at: 2019-09-19 04:59:07
End at: 2019-09-19 04:59:37
Local clock offset: -0.479 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 42.52 Mbit/s
  95th percentile per-packet one-way delay: 60.963 ms
  Loss rate: 1.00%
-- Flow 1:
  Average throughput: 26.89 Mbit/s
  95th percentile per-packet one-way delay: 61.462 ms
  Loss rate: 0.78%
-- Flow 2:
  Average throughput: 18.96 Mbit/s
  95th percentile per-packet one-way delay: 57.771 ms
  Loss rate: 1.14%
-- Flow 3:
  Average throughput: 9.39 Mbit/s
  95th percentile per-packet one-way delay: 57.334 ms
  Loss rate: 2.30%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2019-09-19 05:40:28
End at: 2019-09-19 05:40:58
Local clock offset: 0.322 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 58.666 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 28.28 Mbit/s
95th percentile per-packet one-way delay: 59.047 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 18.85 Mbit/s
95th percentile per-packet one-way delay: 58.074 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 58.217 ms
Loss rate: 2.28%
Run 3: Report of LEDBAT — Data Link

![Throughput and Packet Delay Diagrams]
Run 4: Statistics of LEDBAT

Start at: 2019-09-19 06:21:30
End at: 2019-09-19 06:22:00
Local clock offset: -0.338 ms
Remote clock offset: -0.785 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.96 Mbit/s
95th percentile per-packet one-way delay: 58.562 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 28.34 Mbit/s
95th percentile per-packet one-way delay: 58.591 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 18.96 Mbit/s
95th percentile per-packet one-way delay: 58.557 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 9.28 Mbit/s
95th percentile per-packet one-way delay: 58.358 ms
Loss rate: 2.33%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2019-09-19 07:02:40
End at: 2019-09-19 07:03:10
Local clock offset: 0.316 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-09-19 09:29:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 43.75 Mbit/s
  95th percentile per-packet one-way delay: 58.712 ms
  Loss rate: 0.98%
-- Flow 1:
  Average throughput: 28.16 Mbit/s
  95th percentile per-packet one-way delay: 58.750 ms
  Loss rate: 0.76%
-- Flow 2:
  Average throughput: 18.80 Mbit/s
  95th percentile per-packet one-way delay: 58.714 ms
  Loss rate: 1.14%
-- Flow 3:
  Average throughput: 9.37 Mbit/s
  95th percentile per-packet one-way delay: 58.151 ms
  Loss rate: 2.27%
Run 5: Report of LEDBAT — Data Link
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-09-19 04:19:29  
End at: 2019-09-19 04:19:59  
Local clock offset: -0.226 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-09-19 09:31:50  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 681.38 Mbit/s  
95th percentile per-packet one-way delay: 62.059 ms  
Loss rate: 0.44%

-- Flow 1:
Average throughput: 366.87 Mbit/s  
95th percentile per-packet one-way delay: 68.413 ms  
Loss rate: 0.32%

-- Flow 2:
Average throughput: 361.22 Mbit/s  
95th percentile per-packet one-way delay: 59.395 ms  
Loss rate: 0.30%

-- Flow 3:
Average throughput: 243.61 Mbit/s  
95th percentile per-packet one-way delay: 59.006 ms  
Loss rate: 1.47%
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-09-19 05:00:25
End at: 2019-09-19 05:00:55
Local clock offset: 0.16 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2019-09-19 09:32:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 713.18 Mbit/s
95th percentile per-packet one-way delay: 69.554 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 421.39 Mbit/s
95th percentile per-packet one-way delay: 77.710 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 345.42 Mbit/s
95th percentile per-packet one-way delay: 62.842 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 204.48 Mbit/s
95th percentile per-packet one-way delay: 60.320 ms
Loss rate: 1.09%
Run 2: Report of Muses_DecisionTree — Data Link
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-09-19 05:41:45
End at: 2019-09-19 05:42:15
Local clock offset: -0.111 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-09-19 09:33:35
# Datalink statistics
 -- Total of 3 flows:
  Average throughput: 715.54 Mbit/s
  95th percentile per-packet one-way delay: 64.672 ms
  Loss rate: 0.39%
 -- Flow 1:
  Average throughput: 448.47 Mbit/s
  95th percentile per-packet one-way delay: 67.760 ms
  Loss rate: 0.26%
 -- Flow 2:
  Average throughput: 282.54 Mbit/s
  95th percentile per-packet one-way delay: 58.936 ms
  Loss rate: 0.32%
 -- Flow 3:
  Average throughput: 255.04 Mbit/s
  95th percentile per-packet one-way delay: 58.999 ms
  Loss rate: 1.32%
Run 3: Report of Muses_DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-09-19 06:22:47  
End at: 2019-09-19 06:23:17  
Local clock offset: -0.316 ms  
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2019-09-19 09:33:35  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 692.73 Mbit/s  
  95th percentile per-packet one-way delay: 63.170 ms  
  Loss rate: 0.45%  
-- Flow 1:  
  Average throughput: 398.81 Mbit/s  
  95th percentile per-packet one-way delay: 63.675 ms  
  Loss rate: 0.24%  
-- Flow 2:  
  Average throughput: 344.51 Mbit/s  
  95th percentile per-packet one-way delay: 62.642 ms  
  Loss rate: 0.54%  
-- Flow 3:  
  Average throughput: 214.69 Mbit/s  
  95th percentile per-packet one-way delay: 59.366 ms  
  Loss rate: 1.35%
Run 4: Report of Muses_DecisionTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-09-19 07:03:57
End at: 2019-09-19 07:04:27
Local clock offset: 0.33 ms
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-09-19 09:33:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 700.49 Mbit/s
95th percentile per-packet one-way delay: 69.944 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 409.80 Mbit/s
95th percentile per-packet one-way delay: 72.666 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 327.43 Mbit/s
95th percentile per-packet one-way delay: 62.566 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 238.47 Mbit/s
95th percentile per-packet one-way delay: 59.723 ms
Loss rate: 1.74%
Run 5: Report of Muses_DecisionTree — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 408.81 Mbit/s)
Flow 1 egress (mean 409.80 Mbit/s)
Flow 2 ingress (mean 326.80 Mbit/s)
Flow 2 egress (mean 327.43 Mbit/s)
Flow 3 ingress (mean 239.73 Mbit/s)
Flow 3 egress (mean 238.47 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 72.67 ms)
Flow 2 (95th percentile 62.67 ms)
Flow 3 (95th percentile 59.72 ms)
Run 1: Statistics of Muses\_DecisionTreeHO

Start at: 2019-09-19 04:21:15
End at: 2019-09-19 04:21:45
Local clock offset: -0.057 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 09:34:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 695.13 Mbit/s
  95th percentile per-packet one-way delay: 75.699 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 409.99 Mbit/s
  95th percentile per-packet one-way delay: 77.567 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 325.15 Mbit/s
  95th percentile per-packet one-way delay: 65.979 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 225.10 Mbit/s
  95th percentile per-packet one-way delay: 104.957 ms
  Loss rate: 1.86%
Run 1: Report of Muses_DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-19 05:02:13
End at: 2019-09-19 05:02:43
Local clock offset: -0.138 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-09-19 09:38:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 580.56 Mbit/s
95th percentile per-packet one-way delay: 127.268 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 291.24 Mbit/s
95th percentile per-packet one-way delay: 137.442 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 337.96 Mbit/s
95th percentile per-packet one-way delay: 99.580 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 214.54 Mbit/s
95th percentile per-packet one-way delay: 111.162 ms
Loss rate: 0.24%
Run 2: Report of Muses_DecimalTreeH0 — Data Link

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

![Graph 2: Round-trip delay over Time](image2)
Run 3: Statistics of Muses\_DecisionTreeHO

Start at: 2019-09-19 05:43:33
End at: 2019-09-19 05:44:03
Local clock offset: -0.254 ms
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-09-19 09:39:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 596.78 Mbit/s
95th percentile per-packet one-way delay: 126.276 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 318.85 Mbit/s
95th percentile per-packet one-way delay: 138.804 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 326.62 Mbit/s
95th percentile per-packet one-way delay: 74.532 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 202.32 Mbit/s
95th percentile per-packet one-way delay: 120.541 ms
Loss rate: 0.58%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing network performance metrics](image)

**Throughput (Mbps)**

- Flow 1 ingress (mean 319.88 Mbps)
- Flow 1 egress (mean 318.85 Mbps)
- Flow 2 ingress (mean 325.53 Mbps)
- Flow 2 egress (mean 326.62 Mbps)
- Flow 3 ingress (mean 203.21 Mbps)
- Flow 3 egress (mean 202.32 Mbps)

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

- Flow 1 (95th percentile 138.80 ms)
- Flow 2 (95th percentile 74.53 ms)
- Flow 3 (95th percentile 120.54 ms)
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-19 06:24:34  
End at: 2019-09-19 06:25:04  
Local clock offset: -0.109 ms  
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-09-19 09:42:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 581.40 Mbit/s  
95th percentile per-packet one-way delay: 112.262 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 323.88 Mbit/s  
95th percentile per-packet one-way delay: 122.864 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 273.61 Mbit/s  
95th percentile per-packet one-way delay: 100.170 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 244.84 Mbit/s  
95th percentile per-packet one-way delay: 67.206 ms  
Loss rate: 2.20%
Run 4: Report of Muses DecisonTreeH0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-19 07:05:45  
End at: 2019-09-19 07:06:15  
Local clock offset: -0.098 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-09-19 09:43:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 587.88 Mbit/s  
95th percentile per-packet one-way delay: 112.821 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 328.23 Mbit/s  
95th percentile per-packet one-way delay: 125.028 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 289.38 Mbit/s  
95th percentile per-packet one-way delay: 99.768 ms  
Loss rate: 0.68%  
-- Flow 3:  
Average throughput: 221.27 Mbit/s  
95th percentile per-packet one-way delay: 100.938 ms  
Loss rate: 0.58%
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-19 04:10:58
End at: 2019-09-19 04:11:28
Local clock offset: -0.076 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-09-19 09:45:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 682.65 Mbit/s
  95th percentile per-packet one-way delay: 62.825 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 402.58 Mbit/s
  95th percentile per-packet one-way delay: 66.271 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 332.67 Mbit/s
  95th percentile per-packet one-way delay: 58.317 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 192.20 Mbit/s
  95th percentile per-packet one-way delay: 62.756 ms
  Loss rate: 1.30%
Run 1: Report of Muses_DocumentTreeR0 — Data Link

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

- Flow 1 ingress (mean 402.19 Mbit/s)
- Flow 1 egress (mean 402.58 Mbit/s)
- Flow 2 ingress (mean 332.35 Mbit/s)
- Flow 2 egress (mean 332.67 Mbit/s)
- Flow 3 ingress (mean 192.20 Mbit/s)
- Flow 3 egress (mean 192.20 Mbit/s)

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

- Flow 1 (95th percentile 66.27 ms)
- Flow 2 (95th percentile 58.32 ms)
- Flow 3 (95th percentile 62.76 ms)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-19 04:51:50
End at: 2019-09-19 04:52:20
Local clock offset: 0.164 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-09-19 09:46:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 729.05 Mbit/s
95th percentile per-packet one-way delay: 66.134 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 429.56 Mbit/s
95th percentile per-packet one-way delay: 68.872 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 332.05 Mbit/s
95th percentile per-packet one-way delay: 64.906 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 251.07 Mbit/s
95th percentile per-packet one-way delay: 58.652 ms
Loss rate: 1.45%
Run 2: Report of Muses DecisionTreeR0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-19 05:33:11
End at: 2019-09-19 05:33:41
Local clock offset: 0.141 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-09-19 09:47:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 759.19 Mbit/s
95th percentile per-packet one-way delay: 75.225 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 421.77 Mbit/s
95th percentile per-packet one-way delay: 69.328 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 388.71 Mbit/s
95th percentile per-packet one-way delay: 85.628 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 258.00 Mbit/s
95th percentile per-packet one-way delay: 59.231 ms
Loss rate: 1.51%
Run 3: Report of Muses DecisionTreeR0 — Data Link

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

Legend:
- Flow 1 ingress (mean 420.85 Mbit/s)
- Flow 1 egress (mean 421.77 Mbit/s)
- Flow 2 ingress (mean 388.31 Mbit/s)
- Flow 2 egress (mean 388.71 Mbit/s)
- Flow 3 ingress (mean 258.62 Mbit/s)
- Flow 3 egress (mean 258.00 Mbit/s)
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2019-09-19 06:14:14
End at: 2019-09-19 06:14:44
Local clock offset: -0.106 ms
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2019-09-19 09:48:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 737.51 Mbit/s
95th percentile per-packet one-way delay: 66.739 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 447.18 Mbit/s
95th percentile per-packet one-way delay: 69.541 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 310.18 Mbit/s
95th percentile per-packet one-way delay: 60.245 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 271.68 Mbit/s
95th percentile per-packet one-way delay: 61.106 ms
Loss rate: 1.36%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

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

- Flow 1 ingress (mean 446.90 Mbps)
- Flow 1 egress (mean 447.18 Mbps)
- Flow 2 ingress (mean 309.07 Mbps)
- Flow 2 egress (mean 310.18 Mbps)
- Flow 3 ingress (mean 272.06 Mbps)
- Flow 3 egress (mean 271.68 Mbps)

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

- Flow 1 (95th percentile 69.54 ms)
- Flow 2 (95th percentile 60.24 ms)
- Flow 3 (95th percentile 61.11 ms)
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-19 06:55:24
End at: 2019-09-19 06:55:54
Local clock offset: -0.362 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-09-19 09:52:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 759.58 Mbit/s
95th percentile per-packet one-way delay: 69.017 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 433.66 Mbit/s
95th percentile per-packet one-way delay: 73.490 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 388.63 Mbit/s
95th percentile per-packet one-way delay: 63.298 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 222.52 Mbit/s
95th percentile per-packet one-way delay: 60.082 ms
Loss rate: 1.30%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2019-09-19 04:16:19
End at: 2019-09-19 04:16:49
Local clock offset: -0.274 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-09-19 10:02:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 631.86 Mbit/s
  95th percentile per-packet one-way delay: 176.808 ms
  Loss rate: 1.07%
-- Flow 1:
  Average throughput: 359.12 Mbit/s
  95th percentile per-packet one-way delay: 178.858 ms
  Loss rate: 1.19%
-- Flow 2:
  Average throughput: 295.35 Mbit/s
  95th percentile per-packet one-way delay: 105.431 ms
  Loss rate: 0.76%
-- Flow 3:
  Average throughput: 234.93 Mbit/s
  95th percentile per-packet one-way delay: 88.377 ms
  Loss rate: 1.31%
Run 1: Report of PCC-Allegro — Data Link

![Graph showing network performance metrics over time.](image-url)
Run 2: Statistics of PCC-Allegro

Start at: 2019-09-19 04:57:13
End at: 2019-09-19 04:57:43
Local clock offset: 0.085 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-09-19 10:04:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 643.37 Mbit/s
  95th percentile per-packet one-way delay: 171.314 ms
  Loss rate: 1.57%
-- Flow 1:
  Average throughput: 354.88 Mbit/s
  95th percentile per-packet one-way delay: 161.530 ms
  Loss rate: 1.06%
-- Flow 2:
  Average throughput: 312.44 Mbit/s
  95th percentile per-packet one-way delay: 191.035 ms
  Loss rate: 2.47%
-- Flow 3:
  Average throughput: 248.79 Mbit/s
  95th percentile per-packet one-way delay: 77.925 ms
  Loss rate: 1.45%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2019-09-19 05:38:34
End at: 2019-09-19 05:39:04
Local clock offset: -0.051 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-09-19 10:05:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 624.11 Mbit/s
  95th percentile per-packet one-way delay: 158.560 ms
  Loss rate: 0.90%
-- Flow 1:
  Average throughput: 350.51 Mbit/s
  95th percentile per-packet one-way delay: 185.480 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 293.87 Mbit/s
  95th percentile per-packet one-way delay: 101.452 ms
  Loss rate: 0.73%
-- Flow 3:
  Average throughput: 241.11 Mbit/s
  95th percentile per-packet one-way delay: 80.404 ms
  Loss rate: 1.43%
Run 3: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress (mean 352.23 Mbit/s)**
- **Flow 1 egress (mean 350.51 Mbit/s)**
- **Flow 2 ingress (mean 294.34 Mbit/s)**
- **Flow 2 egress (mean 293.87 Mbit/s)**
- **Flow 3 ingress (mean 241.67 Mbit/s)**
- **Flow 3 egress (mean 241.11 Mbit/s)**

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

- **Flow 1 (95th percentile 185.48 ms)**
- **Flow 2 (95th percentile 101.45 ms)**
- **Flow 3 (95th percentile 80.40 ms)**
Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 06:19:34
End at: 2019-09-19 06:20:04
Local clock offset: 0.068 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-09-19 10:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 654.91 Mbit/s
95th percentile per-packet one-way delay: 155.151 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 358.21 Mbit/s
95th percentile per-packet one-way delay: 164.249 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 321.64 Mbit/s
95th percentile per-packet one-way delay: 84.421 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 254.73 Mbit/s
95th percentile per-packet one-way delay: 119.003 ms
Loss rate: 1.80%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 07:00:47
End at: 2019-09-19 07:01:17
Local clock offset: -0.313 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-09-19 10:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 614.32 Mbit/s
95th percentile per-packet one-way delay: 92.044 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 353.39 Mbit/s
95th percentile per-packet one-way delay: 93.192 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 279.14 Mbit/s
95th percentile per-packet one-way delay: 60.323 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 232.17 Mbit/s
95th percentile per-packet one-way delay: 114.418 ms
Loss rate: 1.64%
Run 5: Report of PCC-Allegro — Data Link

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

- Flow 1 ing (mean 353.78 Mbit/s)
- Flow 1 egress (mean 353.39 Mbit/s)
- Flow 2 ing (mean 280.44 Mbit/s)
- Flow 2 egress (mean 279.14 Mbit/s)
- Flow 3 ing (mean 233.28 Mbit/s)
- Flow 3 egress (mean 232.37 Mbit/s)

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

- Flow 1 (95th percentile 93.19 ms)
- Flow 2 (95th percentile 60.32 ms)
- Flow 3 (95th percentile 114.42 ms)
Run 1: Statistics of PCC-Expr

Start at: 2019-09-19 04:40:46
End at: 2019-09-19 04:41:16
Local clock offset: 0.375 ms
Remote clock offset: -0.815 ms

# Below is generated by plot.py at 2019-09-19 10:08:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.44 Mbit/s
95th percentile per-packet one-way delay: 126.936 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 347.47 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 239.12 Mbit/s
95th percentile per-packet one-way delay: 71.102 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 171.78 Mbit/s
95th percentile per-packet one-way delay: 103.295 ms
Loss rate: 1.31%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2019-09-19 05:21:42
End at: 2019-09-19 05:22:12
Local clock offset: 0.333 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2019-09-19 10:08:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 537.30 Mbit/s
  95th percentile per-packet one-way delay: 111.653 ms
  Loss rate: 1.19%
-- Flow 1:
  Average throughput: 256.59 Mbit/s
  95th percentile per-packet one-way delay: 86.508 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 337.72 Mbit/s
  95th percentile per-packet one-way delay: 156.262 ms
  Loss rate: 2.09%
-- Flow 3:
  Average throughput: 172.91 Mbit/s
  95th percentile per-packet one-way delay: 71.914 ms
  Loss rate: 1.44%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

Start at: 2019-09-19 06:02:59
End at: 2019-09-19 06:03:29
Local clock offset: 0.358 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-09-19 10:09:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 462.79 Mbit/s
95th percentile per-packet one-way delay: 89.828 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 268.74 Mbit/s
95th percentile per-packet one-way delay: 83.227 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 204.79 Mbit/s
95th percentile per-packet one-way delay: 92.407 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 177.46 Mbit/s
95th percentile per-packet one-way delay: 104.591 ms
Loss rate: 1.17%
Run 3: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 272.47 Mbit/s)
- Flow 1 egress (mean 268.74 Mbit/s)
- Flow 2 ingress (mean 204.99 Mbit/s)
- Flow 2 egress (mean 204.79 Mbit/s)
- Flow 3 ingress (mean 177.46 Mbit/s)
- Flow 3 egress (mean 177.46 Mbit/s)

![Graph showing packet delivery performance over time](image-url)

- Flow 1 (95th percentile 83.23 ms)
- Flow 2 (95th percentile 92.41 ms)
- Flow 3 (95th percentile 104.59 ms)
Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 06:44:00
End at: 2019-09-19 06:44:30
Local clock offset: -0.084 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-09-19 10:19:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 514.46 Mbit/s
95th percentile per-packet one-way delay: 174.760 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 265.66 Mbit/s
95th percentile per-packet one-way delay: 175.297 ms
Loss rate: 3.93%
-- Flow 2:
Average throughput: 286.02 Mbit/s
95th percentile per-packet one-way delay: 104.359 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 179.77 Mbit/s
95th percentile per-packet one-way delay: 254.014 ms
Loss rate: 2.11%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 07:25:09
End at: 2019-09-19 07:25:39
Local clock offset: 0.181 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-09-19 10:20:39
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 472.93 Mbit/s
   95th percentile per-packet one-way delay: 73.611 ms
   Loss rate: 0.74%
-- Flow 1:
   Average throughput: 255.13 Mbit/s
   95th percentile per-packet one-way delay: 83.071 ms
   Loss rate: 0.42%
-- Flow 2:
   Average throughput: 231.65 Mbit/s
   95th percentile per-packet one-way delay: 63.182 ms
   Loss rate: 1.00%
-- Flow 3:
   Average throughput: 195.71 Mbit/s
   95th percentile per-packet one-way delay: 67.143 ms
   Loss rate: 1.37%
Run 5: Report of PCC-Expr — Data Link

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

- **Flow 1 ingress (mean 255.24 Mbit/s)**
- **Flow 1 egress (mean 255.13 Mbit/s)**
- **Flow 2 ingress (mean 232.64 Mbit/s)**
- **Flow 2 egress (mean 231.05 Mbit/s)**
- **Flow 3 ingress (mean 196.13 Mbit/s)**
- **Flow 3 egress (mean 195.71 Mbit/s)**

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

- **Flow 1 (95th percentile 83.07 ms)**
- **Flow 2 (95th percentile 63.18 ms)**
- **Flow 3 (95th percentile 67.14 ms)**

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Run 1: Statistics of QUIC Cubic

Start at: 2019-09-19 04:26:38
End at: 2019-09-19 04:27:08
Local clock offset: -0.305 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-09-19 10:20:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.92 Mbit/s
95th percentile per-packet one-way delay: 60.104 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 70.54 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 56.975 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 56.933 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2019-09-19 05:07:30
End at: 2019-09-19 05:08:00
Local clock offset: -0.472 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-09-19 10:20:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 132.39 Mbit/s
  95th percentile per-packet one-way delay: 56.889 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 84.22 Mbit/s
  95th percentile per-packet one-way delay: 56.849 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 41.62 Mbit/s
  95th percentile per-packet one-way delay: 56.914 ms
  Loss rate: 0.99%
-- Flow 3:
  Average throughput: 62.56 Mbit/s
  95th percentile per-packet one-way delay: 56.910 ms
  Loss rate: 0.13%
Run 2: Report of QUIC Cubic — Data Link

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

Throughput (Mbps)

Time (s)

Per packet one way delay (ms)

Time (s)
Run 3: Statistics of QUIC Cubic

Start at: 2019-09-19 05:48:52
End at: 2019-09-19 05:49:22
Local clock offset: -0.076 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-09-19 10:20:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 102.11 Mbit/s
  95th percentile per-packet one-way delay: 57.156 ms
  Loss rate: 0.86%
-- Flow 1:
  Average throughput: 52.11 Mbit/s
  95th percentile per-packet one-way delay: 56.860 ms
  Loss rate: 0.55%
-- Flow 2:
  Average throughput: 47.74 Mbit/s
  95th percentile per-packet one-way delay: 56.749 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 55.41 Mbit/s
  95th percentile per-packet one-way delay: 57.209 ms
  Loss rate: 1.62%
Run 3: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet one way delay over time for three flows.
Flow 1: Ingress (mean 52.19 Mbit/s), Egress (mean 52.11 Mbit/s).
Flow 2: Ingress (mean 47.91 Mbit/s), Egress (mean 47.74 Mbit/s).
Flow 3: Ingress (mean 55.67 Mbit/s), Egress (mean 55.41 Mbit/s).
Per-packet one way delay: Flow 1 (95th percentile 56.86 ms), Flow 2 (95th percentile 56.75 ms), Flow 3 (95th percentile 57.21 ms).]
Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 06:29:53
End at: 2019-09-19 06:30:23
Local clock offset: 0.33 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 112.51 Mbit/s
  95th percentile per-packet one-way delay: 57.726 ms
  Loss rate: 0.75%
-- Flow 1:
  Average throughput: 56.02 Mbit/s
  95th percentile per-packet one-way delay: 57.251 ms
  Loss rate: 0.53%
-- Flow 2:
  Average throughput: 56.77 Mbit/s
  95th percentile per-packet one-way delay: 57.311 ms
  Loss rate: 0.81%
-- Flow 3:
  Average throughput: 57.25 Mbit/s
  95th percentile per-packet one-way delay: 57.793 ms
  Loss rate: 1.30%
Run 4: Report of QUIC Cubic — Data Link

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

Flow 1 ingress (mean 56.11 Mbit/s)  Flow 1 egress (mean 56.02 Mbit/s)
Flow 2 ingress (mean 56.91 Mbit/s)  Flow 2 egress (mean 56.77 Mbit/s)
Flow 3 ingress (mean 57.33 Mbit/s)  Flow 3 egress (mean 57.25 Mbit/s)

Flow 1 (95th percentile 57.25 ms)  Flow 2 (95th percentile 57.33 ms)  Flow 3 (95th percentile 57.79 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 07:11:05
End at: 2019-09-19 07:11:35
Local clock offset: -0.449 ms
Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.41 Mbit/s
95th percentile per-packet one-way delay: 59.203 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 62.06 Mbit/s
95th percentile per-packet one-way delay: 55.828 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 39.42 Mbit/s
95th percentile per-packet one-way delay: 56.284 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 59.273 ms
Loss rate: 0.91%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2019-09-19 04:07:50
End at: 2019-09-19 04:08:20
Local clock offset: -0.045 ms
Remote clock offset: -1.421 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 58.681 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.649 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 58.715 ms
Loss rate: 1.09%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2019-09-19 04:48:56
End at: 2019-09-19 04:49:26
Local clock offset: -0.482 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 60.078 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.063 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.098 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.062 ms
Loss rate: 1.09%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2019-09-19 05:29:58
End at: 2019-09-19 05:30:28
Local clock offset: -0.498 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 56.524 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.541 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.334 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.431 ms
Loss rate: 1.09%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2019-09-19 06:11:09
End at: 2019-09-19 06:11:39
Local clock offset: 0.155 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 57.669 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.678 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.291 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 57.679 ms
  Loss rate: 1.09%
Run 4: Report of SCReAM — Data Link

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

- **Flow 1 (95th percentile 57.68 ms)**
- **Flow 2 (95th percentile 57.29 ms)**
- **Flow 3 (95th percentile 57.68 ms)**
Run 5: Statistics of SCReAM

Start at: 2019-09-19 06:52:11
End at: 2019-09-19 06:52:41
Local clock offset: ~0.093 ms
Remote clock offset: ~0.122 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 57.390 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.269 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.423 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.027 ms
Loss rate: 1.09%
Run 5: Report of SCReAM — Data Link

![Data Link Throughput Graph](image1)
![Data Link Delay Graph](image2)

- **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)
Run 1: Statistics of Sprout

Start at: 2019-09-19 04:35:46
End at: 2019-09-19 04:36:16
Local clock offset: 0.272 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.36 Mbit/s
95th percentile per-packet one-way delay: 60.635 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 58.033 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 7.69 Mbit/s
95th percentile per-packet one-way delay: 58.351 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 60.928 ms
Loss rate: 1.49%
Run 1: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 7.05 Mbps/s)
- Flow 1 egress (mean 7.06 Mbps/s)
- Flow 2 ingress (mean 7.69 Mbps/s)
- Flow 2 egress (mean 7.69 Mbps/s)
- Flow 3 ingress (mean 6.72 Mbps/s)
- Flow 3 egress (mean 6.70 Mbps/s)

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

- Flow 1 (95th percentile 58.03 ms)
- Flow 2 (95th percentile 58.35 ms)
- Flow 3 (95th percentile 60.93 ms)
Run 2: Statistics of Sprout

Start at: 2019-09-19 05:16:44
End at: 2019-09-19 05:17:14
Local clock offset: 0.148 ms
Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 60.895 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 58.323 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 58.252 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 61.211 ms
Loss rate: 1.50%
Run 3: Statistics of Sprout

Start at: 2019-09-19 05:58:01
End at: 2019-09-19 05:58:31
Local clock offset: -0.211 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.19 Mbit/s
95th percentile per-packet one-way delay: 60.733 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 60.798 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 60.619 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 57.604 ms
Loss rate: 1.02%
Run 3: Report of Sprout — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 7.06 Mbit/s)
- Flow 1 egress (mean 7.06 Mbit/s)
- Flow 2 ingress (mean 7.05 Mbit/s)
- Flow 2 egress (mean 7.05 Mbit/s)
- Flow 3 ingress (mean 7.44 Mbit/s)
- Flow 3 egress (mean 7.46 Mbit/s)

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

- Flow 1 (95th percentile 60.80 ms)
- Flow 2 (95th percentile 60.62 ms)
- Flow 3 (95th percentile 57.60 ms)
Run 4: Statistics of Sprout

Start at: 2019-09-19 06:39:03
End at: 2019-09-19 06:39:33
Local clock offset: 0.173 ms
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.68 Mbit/s
95th percentile per-packet one-way delay: 58.096 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 57.743 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 58.244 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 58.047 ms
Loss rate: 0.48%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2019-09-19 07:20:11
End at: 2019-09-19 07:20:41
Local clock offset: -0.413 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-09-19 10:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.57 Mbit/s
95th percentile per-packet one-way delay: 57.494 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 57.008 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 57.617 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 57.725 ms
Loss rate: 1.89%
Run 5: Report of Sprout — Data Link

- **Throughput (Mbps):** The top graph shows the throughput over time for different flows. Each line represents a flow with its mean throughput indicated.
- **Per-packet one-way delay (ms):** The bottom graph illustrates the per-packet one-way delay over time for the same flows.

Flow keys:
- Flow 1 ingress (mean 7.28 Mbps)
- Flow 1 egress (mean 7.27 Mbps)
- Flow 2 ingress (mean 6.41 Mbps)
- Flow 2 egress (mean 6.39 Mbps)
- Flow 3 ingress (mean 6.35 Mbps)
- Flow 3 egress (mean 6.29 Mbps)
Run 1: Statistics of TaoVA-100x

Start at: 2019-09-19 04:37:00
End at: 2019-09-19 04:37:30
Local clock offset: 0.128 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-09-19 10:25:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 456.65 Mbit/s
95th percentile per-packet one-way delay: 60.297 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 231.97 Mbit/s
95th percentile per-packet one-way delay: 58.250 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 231.55 Mbit/s
95th percentile per-packet one-way delay: 61.758 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 214.76 Mbit/s
95th percentile per-packet one-way delay: 61.622 ms
Loss rate: 1.17%
Run 1: Report of TaoVA-100x — Data Link

[Graph showing throughput and latency for three flows]

- Flow 1 ingress (mean 231.99 Mbit/s)
- Flow 1 egress (mean 231.97 Mbit/s)
- Flow 2 ingress (mean 231.58 Mbit/s)
- Flow 2 egress (mean 231.55 Mbit/s)
- Flow 3 ingress (mean 214.81 Mbit/s)
- Flow 3 egress (mean 214.76 Mbit/s)

[Graph showing per-packet one-way delay for three flows]

- Flow 1 95th percentile 58.25 ms
- Flow 2 95th percentile 61.76 ms
- Flow 3 95th percentile 61.62 ms
Run 2: Statistics of TaoVA-100x

Start at: 2019-09-19 05:17:57
End at: 2019-09-19 05:18:27
Local clock offset: 0.098 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-09-19 10:25:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 456.70 Mbit/s
  95th percentile per-packet one-way delay: 61.417 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 231.02 Mbit/s
  95th percentile per-packet one-way delay: 61.600 ms
  Loss rate: 0.22%
-- Flow 2:
  Average throughput: 232.32 Mbit/s
  95th percentile per-packet one-way delay: 61.867 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 216.55 Mbit/s
  95th percentile per-packet one-way delay: 59.406 ms
  Loss rate: 1.32%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2019-09-19 05:59:14
End at: 2019-09-19 05:59:44
Local clock offset: 0.198 ms
Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2019-09-19 10:25:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 438.79 Mbit/s
  95th percentile per-packet one-way delay: 61.117 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 228.49 Mbit/s
  95th percentile per-packet one-way delay: 60.991 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 210.09 Mbit/s
  95th percentile per-packet one-way delay: 60.785 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 214.28 Mbit/s
  95th percentile per-packet one-way delay: 62.944 ms
  Loss rate: 1.31%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 06:40:17
End at: 2019-09-19 06:40:47
Local clock offset: -0.343 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-09-19 10:25:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 429.02 Mbit/s
95th percentile per-packet one-way delay: 60.077 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 225.70 Mbit/s
95th percentile per-packet one-way delay: 60.393 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 209.51 Mbit/s
95th percentile per-packet one-way delay: 58.319 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 194.80 Mbit/s
95th percentile per-packet one-way delay: 62.956 ms
Loss rate: 1.25%
Run 4: Report of TaoVA-100x — Data Link

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

<table>
<thead>
<tr>
<th>Flow</th>
<th>Ingress (mean)</th>
<th>Egress (mean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>225.77 Mbit/s</td>
<td>225.70 Mbit/s</td>
</tr>
<tr>
<td>2</td>
<td>209.75 Mbit/s</td>
<td>209.51 Mbit/s</td>
</tr>
<tr>
<td>3</td>
<td>196.00 Mbit/s</td>
<td>194.90 Mbit/s</td>
</tr>
</tbody>
</table>

![Packet delay graph for different flows.](image-url)

<table>
<thead>
<tr>
<th>Flow</th>
<th>95th Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>60.39 ms</td>
</tr>
<tr>
<td>2</td>
<td>58.32 ms</td>
</tr>
<tr>
<td>3</td>
<td>62.96 ms</td>
</tr>
</tbody>
</table>
Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 07:21:25
End at: 2019-09-19 07:21:55
Local clock offset: -0.462 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-09-19 10:25:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 447.65 Mbit/s
95th percentile per-packet one-way delay: 59.736 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 232.51 Mbit/s
95th percentile per-packet one-way delay: 60.099 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 218.99 Mbit/s
95th percentile per-packet one-way delay: 59.599 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 211.86 Mbit/s
95th percentile per-packet one-way delay: 58.328 ms
Loss rate: 1.22%
Run 5: Report of TaoVA-100x — Data Link

Graph 1: Throughput (Mbps)

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

Legend:
- Flow 1 ingress (mean 232.71 Mbps)
- Flow 1 egress (mean 232.51 Mbps)
- Flow 2 ingress (mean 219.01 Mbps)
- Flow 2 egress (mean 218.99 Mbps)
- Flow 3 ingress (mean 211.99 Mbps)
- Flow 3 egress (mean 211.86 Mbps)
Run 1: Statistics of TCP Vegas

Start at: 2019-09-19 04:09:02
End at: 2019-09-19 04:09:32
Local clock offset: -0.082 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-09-19 10:26:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 879.44 Mbit/s
95th percentile per-packet one-way delay: 90.363 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 493.04 Mbit/s
95th percentile per-packet one-way delay: 65.974 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 453.78 Mbit/s
95th percentile per-packet one-way delay: 93.055 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 256.83 Mbit/s
95th percentile per-packet one-way delay: 88.860 ms
Loss rate: 1.15%
Run 1: Report of TCP Vegas — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 493.07 Mbps)
- Flow 1 egress (mean 493.04 Mbps)
- Flow 2 ingress (mean 454.01 Mbps)
- Flow 2 egress (mean 453.78 Mbps)
- Flow 3 ingress (mean 256.85 Mbps)
- Flow 3 egress (mean 256.83 Mbps)

**Per-packet round-trip delay (ms)**
- Flow 1 (95th percentile 65.97 ms)
- Flow 2 (95th percentile 93.06 ms)
- Flow 3 (95th percentile 88.86 ms)
Run 2: Statistics of TCP Vegas

Start at: 2019-09-19 04:50:08
End at: 2019-09-19 04:50:38
Local clock offset: -0.446 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-09-19 10:30:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 579.36 Mbit/s
95th percentile per-packet one-way delay: 91.945 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 104.77 Mbit/s
95th percentile per-packet one-way delay: 105.091 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 472.62 Mbit/s
95th percentile per-packet one-way delay: 68.926 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 486.33 Mbit/s
95th percentile per-packet one-way delay: 91.539 ms
Loss rate: 1.19%
Run 2: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 104.47 Mbit/s)
- Flow 1 egress (mean 104.77 Mbit/s)
- Flow 2 ingress (mean 472.69 Mbit/s)
- Flow 2 egress (mean 472.62 Mbit/s)
- Flow 3 ingress (mean 486.57 Mbit/s)
- Flow 3 egress (mean 486.33 Mbit/s)
Run 3: Statistics of TCP Vegas

Start at: 2019-09-19 05:31:10
End at: 2019-09-19 05:31:40
Local clock offset: 0.093 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-09-19 10:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 961.55 Mbit/s
95th percentile per-packet one-way delay: 77.045 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 494.07 Mbit/s
95th percentile per-packet one-way delay: 66.135 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 490.02 Mbit/s
95th percentile per-packet one-way delay: 79.036 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 429.78 Mbit/s
95th percentile per-packet one-way delay: 94.864 ms
Loss rate: 1.35%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 06:12:21
End at: 2019-09-19 06:12:51
Local clock offset: -0.079 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-09-19 10:38:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 792.43 Mbit/s
95th percentile per-packet one-way delay: 71.241 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 410.27 Mbit/s
95th percentile per-packet one-way delay: 67.991 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 375.45 Mbit/s
95th percentile per-packet one-way delay: 73.727 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 401.60 Mbit/s
95th percentile per-packet one-way delay: 61.613 ms
Loss rate: 1.31%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 06:53:23
End at: 2019-09-19 06:53:53
Local clock offset: -0.027 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 957.91 Mbit/s
95th percentile per-packet one-way delay: 114.034 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 523.02 Mbit/s
95th percentile per-packet one-way delay: 117.125 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 457.09 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 397.00 Mbit/s
95th percentile per-packet one-way delay: 69.458 ms
Loss rate: 1.36%
Run 5: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 522.55 Mbit/s)
- Flow 1 egress (mean 523.02 Mbit/s)
- Flow 2 ingress (mean 457.28 Mbit/s)
- Flow 2 egress (mean 457.09 Mbit/s)
- Flow 3 ingress (mean 397.85 Mbit/s)
- Flow 3 egress (mean 397.00 Mbit/s)

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

- Flow 1 (95th percentile 117.12 ms)
- Flow 2 (95th percentile 65.23 ms)
- Flow 3 (95th percentile 69.46 ms)
Run 1: Statistics of Verus

Start at: 2019-09-19 04:01:24
End at: 2019-09-19 04:01:54
Local clock offset: -0.068 ms
Remote clock offset: -0.713 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 346.49 Mbit/s
95th percentile per-packet one-way delay: 105.308 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 191.93 Mbit/s
95th percentile per-packet one-way delay: 105.957 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 204.31 Mbit/s
95th percentile per-packet one-way delay: 113.153 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 59.31 Mbit/s
95th percentile per-packet one-way delay: 77.740 ms
Loss rate: 0.00%
Run 1: Report of Verus — Data Link

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

- Flow 1 ingress (mean 192.91 Mbit/s)
- Flow 1 egress (mean 191.93 Mbit/s)
- Flow 2 ingress (mean 208.23 Mbit/s)
- Flow 2 egress (mean 204.31 Mbit/s)
- Flow 3 ingress (mean 59.31 Mbit/s)
- Flow 3 egress (mean 59.31 Mbit/s)

- Flow 1 (95th percentile 105.96 ms)
- Flow 2 (95th percentile 113.15 ms)
- Flow 3 (95th percentile 77.74 ms)
Run 2: Statistics of Verus

Start at: 2019-09-19 04:42:44
End at: 2019-09-19 04:43:14
Local clock offset: -0.03 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.48 Mbit/s
95th percentile per-packet one-way delay: 70.134 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: 82.456 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 67.202 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 76.97 Mbit/s
95th percentile per-packet one-way delay: 63.441 ms
Loss rate: 0.61%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 27.20 Mbit/s)
- Flow 1 egress (mean 27.20 Mbit/s)
- Flow 2 ingress (mean 97.11 Mbit/s)
- Flow 2 egress (mean 97.11 Mbit/s)
- Flow 3 ingress (mean 76.32 Mbit/s)
- Flow 3 egress (mean 76.97 Mbit/s)

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

- Flow 1 (95th percentile 82.46 ms)
- Flow 2 (95th percentile 67.20 ms)
- Flow 3 (95th percentile 63.44 ms)
Run 3: Statistics of Verus

Start at: 2019-09-19 05:23:40
End at: 2019-09-19 05:24:10
Local clock offset: 0.1 ms
Remote clock offset: -0.413 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.07 Mbit/s
95th percentile per-packet one-way delay: 79.642 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 100.45 Mbit/s
95th percentile per-packet one-way delay: 75.189 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 71.242 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 103.84 Mbit/s
95th percentile per-packet one-way delay: 92.494 ms
Loss rate: 1.01%
Run 3: Report of Verus — Data Link

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

- Flow 1 ingress (mean 100.06 Mbit/s)
- Flow 1 egress (mean 100.45 Mbit/s)
- Flow 2 ingress (mean 96.00 Mbit/s)
- Flow 2 egress (mean 97.13 Mbit/s)
- Flow 3 ingress (mean 103.59 Mbit/s)
- Flow 3 egress (mean 103.64 Mbit/s)

- Flow 1 (95th percentile 75.19 ms)
- Flow 2 (95th percentile 71.24 ms)
- Flow 3 (95th percentile 92.49 ms)
Run 4: Statistics of Verus

Start at: 2019-09-19 06:04:53
End at: 2019-09-19 06:05:23
Local clock offset: -0.338 ms
Remote clock offset: -0.667 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.45 Mbit/s
95th percentile per-packet one-way delay: 76.626 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 113.81 Mbit/s
95th percentile per-packet one-way delay: 76.837 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 119.07 Mbit/s
95th percentile per-packet one-way delay: 79.312 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 74.745 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

[Graph showing throughput and packet delay over time for different flows.]
Run 5: Statistics of Verus

Start at: 2019-09-19 06:45:56
End at: 2019-09-19 06:46:26
Local clock offset: -0.1 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 158.41 Mbit/s
95th percentile per-packet one-way delay: 73.169 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 105.63 Mbit/s
95th percentile per-packet one-way delay: 75.564 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 21.38 Mbit/s
95th percentile per-packet one-way delay: 92.763 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 122.06 Mbit/s
95th percentile per-packet one-way delay: 65.872 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

Time (s)

Throughput (Mbps)

Flow 1 ingress (mean 103.63 Mb/s)
Flow 1 egress (mean 105.63 Mb/s)
Flow 2 ingress (mean 21.39 Mb/s)
Flow 2 egress (mean 21.38 Mb/s)
Flow 3 ingress (mean 122.06 Mb/s)
Flow 3 egress (mean 122.06 Mb/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 75.56 ms)
Flow 2 (95th percentile 92.76 ms)
Flow 3 (95th percentile 65.87 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2019-09-19 04:27:57
End at: 2019-09-19 04:28:27
Local clock offset: -0.252 ms
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 543.98 Mbit/s
  95th percentile per-packet one-way delay: 95.963 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 304.83 Mbit/s
  95th percentile per-packet one-way delay: 82.219 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 286.43 Mbit/s
  95th percentile per-packet one-way delay: 157.156 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 149.93 Mbit/s
  95th percentile per-packet one-way delay: 67.907 ms
  Loss rate: 1.40%
Run 1: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 305.07 Mbit/s)
- Flow 1 egress (mean 304.83 Mbit/s)
- Flow 2 ingress (mean 286.77 Mbit/s)
- Flow 2 egress (mean 286.43 Mbit/s)
- Flow 3 ingress (mean 150.23 Mbit/s)
- Flow 3 egress (mean 149.93 Mbit/s)

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

- Flow 1 (95th percentile 82.22 ms)
- Flow 2 (95th percentile 157.16 ms)
- Flow 3 (95th percentile 67.91 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2019-09-19 05:08:50
End at: 2019-09-19 05:09:20
Local clock offset: 0.158 ms
Remote clock offset: -0.998 ms

# Below is generated by plot.py at 2019-09-19 10:41:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 516.65 Mbit/s
  95th percentile per-packet one-way delay: 63.481 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 306.18 Mbit/s
  95th percentile per-packet one-way delay: 65.066 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 242.94 Mbit/s
  95th percentile per-packet one-way delay: 61.267 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 150.47 Mbit/s
  95th percentile per-packet one-way delay: 61.698 ms
  Loss rate: 1.51%
Run 2: Report of PCC-Vivace — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 305.90 Mbit/s)  Flow 1 egress (mean 306.18 Mbit/s)
Flow 2 ingress (mean 243.33 Mbit/s)  Flow 2 egress (mean 242.94 Mbit/s)
Flow 3 ingress (mean 151.01 Mbit/s)  Flow 3 egress (mean 150.47 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 65.07 ms)  Flow 2 (95th percentile 61.27 ms)  Flow 3 (95th percentile 61.70 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2019-09-19 05:50:10
End at: 2019-09-19 05:50:40
Local clock offset: -0.469 ms
Remote clock offset: 0.773 ms

# Below is generated by plot.py at 2019-09-19 10:41:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 436.88 Mbit/s
  95th percentile per-packet one-way delay: 59.031 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 253.61 Mbit/s
  95th percentile per-packet one-way delay: 56.690 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 189.79 Mbit/s
  95th percentile per-packet one-way delay: 57.032 ms
  Loss rate: 0.44%
-- Flow 3:
  Average throughput: 175.14 Mbit/s
  95th percentile per-packet one-way delay: 61.545 ms
  Loss rate: 1.46%
Run 3: Report of PCC-Vivace — Data Link

![Graphs showing throughput and packet size over time for different flows with mean bandwidths and 95th percentile delays.]
Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 06:31:12
End at: 2019-09-19 06:31:42
Local clock offset: 0.182 ms
Remote clock offset: -0.805 ms

# Below is generated by plot.py at 2019-09-19 10:41:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.98 Mbit/s
95th percentile per-packet one-way delay: 61.878 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 300.90 Mbit/s
95th percentile per-packet one-way delay: 62.577 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 225.85 Mbit/s
95th percentile per-packet one-way delay: 61.311 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 208.25 Mbit/s
95th percentile per-packet one-way delay: 61.435 ms
Loss rate: 1.89%
Run 4: Report of PCC-Vivace — Data Link

![Data Link Throughput Graph]

![Data Link Packet Delay Graph]

Legend:
- Flow 1 ingress (mean 300.75 Mbit/s)
- Flow 1 egress (mean 300.90 Mbit/s)
- Flow 2 ingress (mean 226.31 Mbit/s)
- Flow 2 egress (mean 225.85 Mbit/s)
- Flow 3 ingress (mean 299.81 Mbit/s)
- Flow 3 egress (mean 208.25 Mbit/s)
Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 07:12:24
End at: 2019-09-19 07:12:54
Local clock offset: -0.248 ms
Remote clock offset: 0.472 ms

# Below is generated by plot.py at 2019-09-19 10:42:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 521.81 Mbit/s
95th percentile per-packet one-way delay: 61.418 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 296.44 Mbit/s
95th percentile per-packet one-way delay: 80.077 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 262.90 Mbit/s
95th percentile per-packet one-way delay: 59.046 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 155.46 Mbit/s
95th percentile per-packet one-way delay: 57.737 ms
Loss rate: 1.85%

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Run 5: Report of PCC-Vivace — Data Link

**Throughput (Mbps):**
- Flow 1 ingress (mean 300.63 Mbps)
- Flow 1 egress (mean 296.44 Mbps)
- Flow 2 ingress (mean 263.20 Mbps)
- Flow 2 egress (mean 262.90 Mbps)
- Flow 3 ingress (mean 156.57 Mbps)
- Flow 3 egress (mean 155.46 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 80.08 ms)
- Flow 2 (95th percentile 59.05 ms)
- Flow 3 (95th percentile 57.74 ms)
Run 1: Statistics of WebRTC media

Start at: 2019-09-19 04:03:03
End at: 2019-09-19 04:03:33
Local clock offset: -0.105 ms
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-09-19 10:42:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 60.368 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.07 Mbit/s
  95th percentile per-packet one-way delay: 60.436 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 57.186 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 57.034 ms
  Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2019-09-19 04:44:08
End at: 2019-09-19 04:44:38
Local clock offset: -0.056 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-09-19 10:42:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 60.664 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.573 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.180 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.709 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

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

Flow 1 ingress (mean 0.05 Mbit/s) — Flow 1 egress (mean 0.05 Mbit/s)
Flow 2 ingress (mean 0.05 Mbit/s) — Flow 2 egress (mean 0.05 Mbit/s)
Flow 3 ingress (mean 0.05 Mbit/s) — Flow 3 egress (mean 0.05 Mbit/s)

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

Flow 1 (95th percentile 57.57 ms) — Flow 2 (95th percentile 57.18 ms) — Flow 3 (95th percentile 60.71 ms)
Run 3: Statistics of WebRTC media

Start at: 2019-09-19 05:25:12
End at: 2019-09-19 05:25:42
Local clock offset: -0.069 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-09-19 10:42:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 60.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.281 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.300 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.298 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

![Graph 1](image1.png)

![Graph 2](image2.png)
Run 4: Statistics of WebRTC media

Start at: 2019-09-19 06:06:24
End at: 2019-09-19 06:06:54
Local clock offset: -0.073 ms
Remote clock offset: 0.606 ms

# Below is generated by plot.py at 2019-09-19 10:42:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 56.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.887 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.685 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.339 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput and delay for different flows over time.](image-url)
Run 5: Statistics of WebRTC media

Start at: 2019-09-19 06:47:22
End at: 2019-09-19 06:47:52
Local clock offset: 0.156 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-09-19 10:42:08
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 0.14 Mbit/s
   95th percentile per-packet one-way delay: 60.536 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 0.05 Mbit/s
   95th percentile per-packet one-way delay: 60.594 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 0.05 Mbit/s
   95th percentile per-packet one-way delay: 57.317 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 0.05 Mbit/s
   95th percentile per-packet one-way delay: 57.175 ms
   Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

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