Pantheon Report

Generated at 2020-02-18 21:34:22 (UTC).
Data path: GCE Sydney on ens4 (local) → GCE London on ens4 (remote).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 5.0.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a75a932a94dfafdf722537b0ec
third_party/fillp @ d66a1459332fcee56963885d7e6a7e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd22b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa958d38dc4dfb0ecdfb90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906c6eb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61d3bc92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d18b623c091a55f3ec8724981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a8273a86b42f1bc8143ebc978f3c4f2
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3db2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a6ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Sydney to GCE London, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<tbody>
<tr>
<td></td>
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<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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<td>381.41</td>
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Run 1: Statistics of TCP BBR

Start at: 2020-02-18 15:32:37
End at: 2020-02-18 15:33:07
Local clock offset: -0.09 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2020-02-18 19:11:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 909.39 Mbit/s
95th percentile per-packet one-way delay: 209.867 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 601.54 Mbit/s
95th percentile per-packet one-way delay: 220.344 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 356.35 Mbit/s
95th percentile per-packet one-way delay: 160.188 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 212.22 Mbit/s
95th percentile per-packet one-way delay: 227.145 ms
Loss rate: 1.41%
Run 1: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 605.57 Mbps)
- Flow 1 egress (mean 601.54 Mbps)
- Flow 2 ingress (mean 356.36 Mbps)
- Flow 2 egress (mean 356.35 Mbps)
- Flow 3 ingress (mean 215.22 Mbps)
- Flow 3 egress (mean 212.22 Mbps)

- Flow 1 (95th percentile 220.34 ms)
- Flow 2 (95th percentile 160.19 ms)
- Flow 3 (95th percentile 227.15 ms)
Run 2: Statistics of TCP BBR

Start at: 2020-02-18 16:15:20
End at: 2020-02-18 16:15:50
Local clock offset: 0.291 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1027.02 Mbit/s
95th percentile per-packet one-way delay: 220.053 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 656.79 Mbit/s
95th percentile per-packet one-way delay: 210.729 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 409.97 Mbit/s
95th percentile per-packet one-way delay: 249.477 ms
Loss rate: 1.38%
-- Flow 3:
Average throughput: 291.28 Mbit/s
95th percentile per-packet one-way delay: 203.914 ms
Loss rate: 0.01%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2020-02-18 16:57:12
End at: 2020-02-18 16:57:42
Local clock offset: -0.079 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 783.29 Mbit/s
  95th percentile per-packet one-way delay: 207.113 ms
  Loss rate: 0.85%
-- Flow 1:
  Average throughput: 487.10 Mbit/s
  95th percentile per-packet one-way delay: 217.416 ms
  Loss rate: 1.23%
-- Flow 2:
  Average throughput: 264.81 Mbit/s
  95th percentile per-packet one-way delay: 150.181 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 360.76 Mbit/s
  95th percentile per-packet one-way delay: 219.612 ms
  Loss rate: 0.54%
Run 3: Report of TCP BBR — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 493.18 Mbps)
  - Flow 1 egress (mean 487.10 Mbps)
  - Flow 2 ingress (mean 264.81 Mbps)
  - Flow 2 egress (mean 264.81 Mbps)
  - Flow 3 ingress (mean 362.76 Mbps)
  - Flow 3 egress (mean 360.76 Mbps)

- **Packet Delay (ms)**
  - Flow 1 (95th percentile 217.42 ms)
  - Flow 2 (95th percentile 150.18 ms)
  - Flow 3 (95th percentile 219.61 ms)
Run 4: Statistics of TCP BBR

Start at: 2020-02-18 17:39:05
End at: 2020-02-18 17:39:35
Local clock offset: -0.087 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 954.76 Mbit/s
95th percentile per-packet one-way delay: 239.834 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 548.95 Mbit/s
95th percentile per-packet one-way delay: 243.730 ms
Loss rate: 2.43%
-- Flow 2:
Average throughput: 435.29 Mbit/s
95th percentile per-packet one-way delay: 227.810 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 350.47 Mbit/s
95th percentile per-packet one-way delay: 224.772 ms
Loss rate: 2.76%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2020-02-18 18:21:02
End at: 2020-02-18 18:21:32
Local clock offset: -0.146 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 974.81 Mbit/s
95th percentile per-packet one-way delay: 231.633 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 581.83 Mbit/s
95th percentile per-packet one-way delay: 239.234 ms
Loss rate: 4.06%
-- Flow 2:
Average throughput: 440.64 Mbit/s
95th percentile per-packet one-way delay: 212.657 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 298.86 Mbit/s
95th percentile per-packet one-way delay: 217.135 ms
Loss rate: 2.22%
Run 5: Report of TCP BBR — Data Link

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

- **Flow 1 ingress** (mean 696.43 Mbps)
- **Flow 1 egress** (mean 581.83 Mbps)
- **Flow 2 ingress** (mean 446.77 Mbps)
- **Flow 2 egress** (mean 440.66 Mbps)
- **Flow 3 ingress** (mean 305.63 Mbps)
- **Flow 3 egress** (mean 298.86 Mbps)

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

- **Flow 1** (95th percentile 239.23 ms)
- **Flow 2** (95th percentile 212.66 ms)
- **Flow 3** (95th percentile 217.13 ms)
Run 1: Statistics of Copa

Start at: 2020-02-18 15:07:00
End at: 2020-02-18 15:07:30
Local clock offset: -0.037 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 408.77 Mbit/s
95th percentile per-packet one-way delay: 140.054 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 238.02 Mbit/s
95th percentile per-packet one-way delay: 140.785 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 199.48 Mbit/s
95th percentile per-packet one-way delay: 137.346 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.19 Mbit/s
95th percentile per-packet one-way delay: 140.150 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2020-02-18 15:49:05
End at: 2020-02-18 15:49:35
Local clock offset: -0.106 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 457.60 Mbit/s
95th percentile per-packet one-way delay: 270.374 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 274.43 Mbit/s
95th percentile per-packet one-way delay: 166.477 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 212.13 Mbit/s
95th percentile per-packet one-way delay: 299.490 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 126.19 Mbit/s
95th percentile per-packet one-way delay: 136.227 ms
Loss rate: 0.00%
Run 2: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 274.41 Mb/s)
- Flow 1 egress (mean 274.43 Mb/s)
- Flow 2 ingress (mean 214.22 Mb/s)
- Flow 2 egress (mean 212.13 Mb/s)
- Flow 3 ingress (mean 126.39 Mb/s)
- Flow 3 egress (mean 126.39 Mb/s)

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

Legend:
- Flow 1 (95th percentile 166.48 ms)
- Flow 2 (95th percentile 299.49 ms)
- Flow 3 (95th percentile 136.23 ms)
Run 3: Statistics of Copa

Start at: 2020-02-18 16:31:16
End at: 2020-02-18 16:31:46
Local clock offset: -0.218 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2020-02-18 19:14:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.30 Mbit/s
95th percentile per-packet one-way delay: 163.878 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 207.19 Mbit/s
95th percentile per-packet one-way delay: 144.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 228.27 Mbit/s
95th percentile per-packet one-way delay: 167.574 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 178.25 Mbit/s
95th percentile per-packet one-way delay: 184.910 ms
Loss rate: 0.92%
Run 3: Report of Copa — Data Link

[Graphs showing network traffic and packet delay over time]
Run 4: Statistics of Copa

Start at: 2020-02-18 17:13:25
End at: 2020-02-18 17:13:55
Local clock offset: -0.126 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 462.03 Mbit/s
  95th percentile per-packet one-way delay: 198.890 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 275.53 Mbit/s
  95th percentile per-packet one-way delay: 205.551 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 223.04 Mbit/s
  95th percentile per-packet one-way delay: 152.145 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 114.39 Mbit/s
  95th percentile per-packet one-way delay: 137.081 ms
  Loss rate: 0.00%
Run 4: Report of Copa — Data Link

![Graph showing data link throughput and delay](image-url)
Run 5: Statistics of Copa

Start at: 2020-02-18 17:55:22
End at: 2020-02-18 17:55:52
Local clock offset: 0.233 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.44 Mbit/s
95th percentile per-packet one-way delay: 165.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.06 Mbit/s
95th percentile per-packet one-way delay: 157.929 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 195.00 Mbit/s
95th percentile per-packet one-way delay: 175.115 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 104.15 Mbit/s
95th percentile per-packet one-way delay: 145.874 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link

![Graph of Throughput](image1)

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

Legend:
- Flow 1 ingress (mean 240.05 Mbit/s)
- Flow 1 egress (mean 240.06 Mbit/s)
- Flow 2 ingress (mean 195.00 Mbit/s)
- Flow 2 egress (mean 195.00 Mbit/s)
- Flow 3 ingress (mean 104.15 Mbit/s)
- Flow 3 egress (mean 104.15 Mbit/s)

Legend:
- Flow 1 (95th percentile 157.93 ms)
- Flow 2 (95th percentile 175.12 ms)
- Flow 3 (95th percentile 145.67 ms)
Run 1: Statistics of TCP Cubic

Start at: 2020-02-18 15:19:03
End at: 2020-02-18 15:19:33
Local clock offset: -0.084 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 429.23 Mbit/s
  95th percentile per-packet one-way delay: 139.569 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 299.74 Mbit/s
  95th percentile per-packet one-way delay: 134.519 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 155.14 Mbit/s
  95th percentile per-packet one-way delay: 177.857 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 78.94 Mbit/s
  95th percentile per-packet one-way delay: 135.331 ms
  Loss rate: 0.03%
Run 1: Report of TCP Cubic — Data Link

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**Throughput (Mb/s)**

- **Flow 1 ingress** (mean 299.73 Mb/s)
- **Flow 1 egress** (mean 299.74 Mb/s)
- **Flow 2 ingress** (mean 156.21 Mb/s)
- **Flow 2 egress** (mean 155.14 Mb/s)
- **Flow 3 ingress** (mean 78.96 Mb/s)
- **Flow 3 egress** (mean 78.94 Mb/s)

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**Packet one-way delay (ms)**

- **Flow 1** (95th percentile 134.52 ms)
- **Flow 2** (95th percentile 177.86 ms)
- **Flow 3** (95th percentile 115.33 ms)
Run 2: Statistics of TCP Cubic

Start at: 2020-02-18 16:01:26
End at: 2020-02-18 16:01:56
Local clock offset: -0.091 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 457.38 Mbit/s
 95th percentile per-packet one-way delay: 200.912 ms
 Loss rate: 0.56%
-- Flow 1:
 Average throughput: 253.83 Mbit/s
 95th percentile per-packet one-way delay: 214.482 ms
 Loss rate: 0.64%
-- Flow 2:
 Average throughput: 155.41 Mbit/s
 95th percentile per-packet one-way delay: 165.911 ms
 Loss rate: 0.89%
-- Flow 3:
 Average throughput: 300.99 Mbit/s
 95th percentile per-packet one-way delay: 162.725 ms
 Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 255.48 Mbit/s)
- Flow 1 egress (mean 253.83 Mbit/s)
- Flow 2 ingress (mean 156.82 Mbit/s)
- Flow 2 egress (mean 155.41 Mbit/s)
- Flow 3 ingress (mean 101.02 Mbit/s)
- Flow 3 egress (mean 90.99 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 214.48 ms)
- Flow 2 (95th percentile 165.91 ms)
- Flow 3 (95th percentile 162.72 ms)
Run 3: Statistics of TCP Cubic

Start at: 2020-02-18 16:43:27
End at: 2020-02-18 16:43:57
Local clock offset: 0.309 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 532.78 Mbit/s
  95th percentile per-packet one-way delay: 145.610 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 266.86 Mbit/s
  95th percentile per-packet one-way delay: 135.451 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 259.59 Mbit/s
  95th percentile per-packet one-way delay: 139.544 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 279.98 Mbit/s
  95th percentile per-packet one-way delay: 173.973 ms
  Loss rate: 0.15%
Run 3: Report of TCP Cubic — Data Link

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

Throughput (Mb/s) vs Time (s)

- Flow 1 ingress (mean 266.89 Mb/s)
- Flow 2 ingress (mean 259.58 Mb/s)
- Flow 3 ingress (mean 280.38 Mb/s)
- Flow 1 egress (mean 266.86 Mb/s)
- Flow 2 egress (mean 259.59 Mb/s)
- Flow 3 egress (mean 279.98 Mb/s)

Packet delay (ms) vs Time (s)

- Flow 1 (95th percentile 135.45 ms)
- Flow 2 (95th percentile 139.54 ms)
- Flow 3 (95th percentile 173.97 ms)
Run 4: Statistics of TCP Cubic

Start at: 2020-02-18 17:25:26
End at: 2020-02-18 17:25:56
Local clock offset: -0.13 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 464.60 Mbit/s
  95th percentile per-packet one-way delay: 154.069 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 228.74 Mbit/s
  95th percentile per-packet one-way delay: 162.946 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 314.07 Mbit/s
  95th percentile per-packet one-way delay: 141.398 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 79.92 Mbit/s
  95th percentile per-packet one-way delay: 134.557 ms
  Loss rate: 0.01%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2020-02-18 18:07:35
End at: 2020-02-18 18:08:05
Local clock offset: -0.116 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 270.39 Mbit/s
95th percentile per-packet one-way delay: 135.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.74 Mbit/s
95th percentile per-packet one-way delay: 134.427 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 159.91 Mbit/s
95th percentile per-packet one-way delay: 135.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.47 Mbit/s
95th percentile per-packet one-way delay: 134.127 ms
Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link

Graph 1: Throughput (Mbps)

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

Legend:
- Flow 1 ingress (mean 149.74 Mbps)
- Flow 1 egress (mean 149.74 Mbps)
- Flow 2 ingress (mean 159.92 Mbps)
- Flow 2 egress (mean 159.91 Mbps)
- Flow 3 ingress (mean 42.47 Mbps)
- Flow 3 egress (mean 42.47 Mbps)
Run 1: Statistics of FillIP

Start at: 2020-02-18 15:43:25
End at: 2020-02-18 15:43:55
Local clock offset: -0.099 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2020-02-18 19:30:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 377.69 Mbit/s
  95th percentile per-packet one-way delay: 136.792 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 78.34 Mbit/s
  95th percentile per-packet one-way delay: 135.231 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 320.38 Mbit/s
  95th percentile per-packet one-way delay: 136.380 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 259.66 Mbit/s
  95th percentile per-packet one-way delay: 137.991 ms
  Loss rate: 0.00%
Run 1: Report of FillP — Data Link

The graphs show the throughput and per-packet one-way delay for different flows over time. The throughput graph illustrates the data transfer rates ranging from 0 to 800 Mbps, while the delay graph shows the delays ranging from 134 to 141 ms. The data for each flow is represented by different colors and patterns, indicating mean values and median delays.
Run 2: Statistics of FillP

Start at: 2020-02-18 16:25:51
End at: 2020-02-18 16:26:21
Local clock offset: -0.074 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-02-18 19:32:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.31 Mbit/s
95th percentile per-packet one-way delay: 150.867 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.40 Mbit/s
95th percentile per-packet one-way delay: 170.805 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 294.99 Mbit/s
95th percentile per-packet one-way delay: 135.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 186.15 Mbit/s
95th percentile per-packet one-way delay: 135.566 ms
Loss rate: 0.00%
Run 2: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 168.39 Mbps)
  - Flow 1 egress (mean 168.40 Mbps)
  - Flow 2 ingress (mean 295.00 Mbps)
  - Flow 2 egress (mean 294.99 Mbps)
  - Flow 3 ingress (mean 196.15 Mbps)
  - Flow 3 egress (mean 196.15 Mbps)

- **Packet one-way delay (ms)**
  - Flow 1 (95th percentile 170.81 ms)
  - Flow 2 (95th percentile 135.52 ms)
  - Flow 3 (95th percentile 135.57 ms)
Run 3: Statistics of FillP

Start at: 2020-02-18 17:07:57
End at: 2020-02-18 17:08:27
Local clock offset: -0.081 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2020-02-18 19:34:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 448.17 Mbit/s
  95th percentile per-packet one-way delay: 175.976 ms
  Loss rate: 0.22%
-- Flow 1:
  Average throughput: 174.00 Mbit/s
  95th percentile per-packet one-way delay: 193.461 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 287.53 Mbit/s
  95th percentile per-packet one-way delay: 135.357 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 250.64 Mbit/s
  95th percentile per-packet one-way delay: 136.450 ms
  Loss rate: 0.05%
Run 3: Report of FillP — Data Link

![Throughput Graph]

![Delay Graph]
Run 4: Statistics of FillP

Start at: 2020-02-18 17:49:42
End at: 2020-02-18 17:50:12
Local clock offset: -0.045 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2020-02-18 19:34:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 352.73 Mbit/s
  95th percentile per-packet one-way delay: 143.822 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 91.84 Mbit/s
  95th percentile per-packet one-way delay: 159.045 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 301.57 Mbit/s
  95th percentile per-packet one-way delay: 135.222 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 183.57 Mbit/s
  95th percentile per-packet one-way delay: 133.055 ms
  Loss rate: 0.00%
Run 4: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 91.84 Mbps)
  - Flow 1 egress (mean 91.84 Mbps)
  - Flow 2 ingress (mean 301.58 Mbps)
  - Flow 2 egress (mean 301.57 Mbps)
  - Flow 3 ingress (mean 183.56 Mbps)
  - Flow 3 egress (mean 183.57 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 159.04 ms)
  - Flow 2 (95th percentile 135.22 ms)
  - Flow 3 (95th percentile 133.06 ms)
Run 5: Statistics of FillP

Start at: 2020-02-18 18:32:00
End at: 2020-02-18 18:32:30
Local clock offset: -0.156 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-02-18 19:34:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.75 Mbit/s
95th percentile per-packet one-way delay: 135.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.64 Mbit/s
95th percentile per-packet one-way delay: 135.628 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 293.21 Mbit/s
95th percentile per-packet one-way delay: 135.747 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 209.16 Mbit/s
95th percentile per-packet one-way delay: 133.292 ms
Loss rate: 0.00%
Run 5: Report of FillP — Data Link
Run 1: Statistics of FillP-Sheep

Start at: 2020-02-18 15:47:10
End at: 2020-02-18 15:47:40
Local clock offset: -0.096 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2020-02-18 19:45:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 701.40 Mbit/s
  95th percentile per-packet one-way delay: 156.885 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 431.87 Mbit/s
  95th percentile per-packet one-way delay: 172.749 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 299.18 Mbit/s
  95th percentile per-packet one-way delay: 136.097 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 211.49 Mbit/s
  95th percentile per-packet one-way delay: 136.025 ms
  Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

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

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

Legend:
- Flow 1 ingress (mean 432.76 Mbit/s)
- Flow 1 egress (mean 431.87 Mbit/s)
- Flow 2 ingress (mean 299.18 Mbit/s)
- Flow 2 egress (mean 299.18 Mbit/s)
- Flow 3 ingress (mean 211.49 Mbit/s)
- Flow 3 egress (mean 211.49 Mbit/s)
Run 2: Statistics of FillP-Sheep

Start at: 2020-02-18 16:29:37
End at: 2020-02-18 16:30:07
Local clock offset: -0.024 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2020-02-18 19:45:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 354.15 Mbit/s
  95th percentile per-packet one-way delay: 160.581 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 75.87 Mbit/s
  95th percentile per-packet one-way delay: 182.944 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 326.58 Mbit/s
  95th percentile per-packet one-way delay: 141.048 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 184.98 Mbit/s
  95th percentile per-packet one-way delay: 136.039 ms
  Loss rate: 0.00%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2020-02-18 17:11:49  
End at: 2020-02-18 17:12:19  
Local clock offset: -0.099 ms  
Remote clock offset: -0.161 ms  

# Below is generated by plot.py at 2020-02-18 19:45:54  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 296.79 Mbit/s
  95th percentile per-packet one-way delay: 135.947 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 55.17 Mbit/s
  95th percentile per-packet one-way delay: 135.479 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 263.18 Mbit/s
  95th percentile per-packet one-way delay: 136.052 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 202.57 Mbit/s
  95th percentile per-packet one-way delay: 136.108 ms
  Loss rate: 0.00%
Run 3: Report of FillP-Sheep — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 55.17 Mbps)
  - Flow 1 egress (mean 55.17 Mbps)
  - Flow 2 ingress (mean 263.18 Mbps)
  - Flow 2 egress (mean 263.18 Mbps)
  - Flow 3 ingress (mean 202.60 Mbps)
  - Flow 3 egress (mean 202.37 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 135.48 ms)
  - Flow 2 (95th percentile 136.05 ms)
  - Flow 3 (95th percentile 136.11 ms)
Run 4: Statistics of FillP-Sheep

Start at: 2020-02-18 17:53:27
End at: 2020-02-18 17:53:57
Local clock offset: -0.048 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2020-02-18 19:50:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 680.00 Mbit/s
95th percentile per-packet one-way delay: 138.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 416.91 Mbit/s
95th percentile per-packet one-way delay: 141.693 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 294.79 Mbit/s
95th percentile per-packet one-way delay: 135.291 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.32 Mbit/s
95th percentile per-packet one-way delay: 134.755 ms
Loss rate: 0.00%
Run 4: Report of FillP-Sheep — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 416.89 Mbps)
- Flow 1 egress (mean 416.91 Mbps)
- Flow 2 ingress (mean 294.81 Mbps)
- Flow 2 egress (mean 294.79 Mbps)
- Flow 3 ingress (mean 201.33 Mbps)
- Flow 3 egress (mean 201.32 Mbps)

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

- Flow 1 (95th percentile 141.69 ms)
- Flow 2 (95th percentile 135.29 ms)
- Flow 3 (95th percentile 134.75 ms)
Run 5: Statistics of FillP-Sheep

Start at: 2020-02-18 18:35:44
End at: 2020-02-18 18:36:14
Local clock offset: -0.173 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2020-02-18 19:52:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 678.58 Mbit/s
  95th percentile per-packet one-way delay: 150.601 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 404.20 Mbit/s
  95th percentile per-packet one-way delay: 153.062 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 302.50 Mbit/s
  95th percentile per-packet one-way delay: 135.681 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 221.07 Mbit/s
  95th percentile per-packet one-way delay: 136.976 ms
  Loss rate: 0.00%
Run 5: Report of FillP-Sheep — Data Link
Run 1: Statistics of Indigo

Start at: 2020-02-18 15:30:47
End at: 2020-02-18 15:31:17
Local clock offset: ~0.111 ms
Remote clock offset: ~0.11 ms

# Below is generated by plot.py at 2020-02-18 19:52:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 256.31 Mbit/s
  95th percentile per-packet one-way delay: 134.718 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 140.09 Mbit/s
  95th percentile per-packet one-way delay: 134.733 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 124.83 Mbit/s
  95th percentile per-packet one-way delay: 134.850 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 105.75 Mbit/s
  95th percentile per-packet one-way delay: 133.871 ms
  Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

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

**Legend:**
- Flow 1 ingress (mean 140.09 Mbit/s)
- Flow 1 egress (mean 140.09 Mbit/s)
- Flow 2 ingress (mean 124.83 Mbit/s)
- Flow 2 egress (mean 124.83 Mbit/s)
- Flow 3 ingress (mean 105.75 Mbit/s)
- Flow 3 egress (mean 105.75 Mbit/s)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 134.73 ms)
- Flow 2 (95th percentile 134.85 ms)
- Flow 3 (95th percentile 133.87 ms)
Run 2: Statistics of Indigo

Start at: 2020-02-18 16:13:30
End at: 2020-02-18 16:14:00
Local clock offset: 0.314 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2020-02-18 19:52:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 254.43 Mbit/s
  95th percentile per-packet one-way delay: 134.778 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 136.96 Mbit/s
  95th percentile per-packet one-way delay: 134.669 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 126.36 Mbit/s
  95th percentile per-packet one-way delay: 134.673 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 106.74 Mbit/s
  95th percentile per-packet one-way delay: 137.518 ms
  Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

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

![Graph 2: Delay vs Time](image2)
Run 3: Statistics of Indigo

Start at: 2020-02-18 16:55:21
End at: 2020-02-18 16:55:51
Local clock offset: -0.055 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2020-02-18 19:52:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 255.59 Mbit/s
  95th percentile per-packet one-way delay: 135.766 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 133.90 Mbit/s
  95th percentile per-packet one-way delay: 136.061 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 128.11 Mbit/s
  95th percentile per-packet one-way delay: 134.922 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 115.65 Mbit/s
  95th percentile per-packet one-way delay: 135.841 ms
  Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

[Graph 1: Throughput versus Time (s)]

[Graph 2: Per-packet one-way delay (ms) versus Time (s)]
Run 4: Statistics of Indigo

Start at: 2020-02-18 17:37:14
End at: 2020-02-18 17:37:44
Local clock offset: -0.168 ms
Remote clock offset: -0.493 ms

# Below is generated by plot.py at 2020-02-18 19:52:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 267.17 Mbit/s
  95th percentile per-packet one-way delay: 135.895 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 142.46 Mbit/s
  95th percentile per-packet one-way delay: 135.710 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 133.80 Mbit/s
  95th percentile per-packet one-way delay: 135.966 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 114.14 Mbit/s
  95th percentile per-packet one-way delay: 136.236 ms
  Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 142.46 Mbit/s)
- Flow 1 egress (mean 142.46 Mbit/s)
- Flow 2 ingress (mean 133.73 Mbit/s)
- Flow 2 egress (mean 133.88 Mbit/s)
- Flow 3 ingress (mean 114.14 Mbit/s)
- Flow 3 egress (mean 114.14 Mbit/s)
Run 5: Statistics of Indigo

Start at: 2020-02-18 18:19:11
End at: 2020-02-18 18:19:41
Local clock offset: -0.138 ms
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2020-02-18 19:52:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.08 Mbit/s
95th percentile per-packet one-way delay: 134.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.36 Mbit/s
95th percentile per-packet one-way delay: 134.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 126.62 Mbit/s
95th percentile per-packet one-way delay: 134.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 107.52 Mbit/s
95th percentile per-packet one-way delay: 135.728 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-02-18 15:10:28  
End at: 2020-02-18 15:10:58  
Local clock offset: -0.034 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2020-02-18 19:56:11  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 564.10 Mbit/s  
95th percentile per-packet one-way delay: 136.189 ms  
Loss rate: 0.00%

-- Flow 1:  
Average throughput: 326.25 Mbit/s  
95th percentile per-packet one-way delay: 135.994 ms  
Loss rate: 0.00%

-- Flow 2:  
Average throughput: 265.60 Mbit/s  
95th percentile per-packet one-way delay: 136.440 ms  
Loss rate: 0.00%

-- Flow 3:  
Average throughput: 179.61 Mbit/s  
95th percentile per-packet one-way delay: 134.868 ms  
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC3 — Data Link

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![Graph of data link throughput over time](image1)

![Graph of per-packet one-way delay over time](image2)

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Run 2: Statistics of Indigo-MusesC3

Start at: 2020-02-18 15:52:38
End at: 2020-02-18 15:53:08
Local clock offset: -0.077 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2020-02-18 19:59:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.58 Mbit/s
95th percentile per-packet one-way delay: 135.855 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 348.82 Mbit/s
95th percentile per-packet one-way delay: 135.959 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 265.64 Mbit/s
95th percentile per-packet one-way delay: 135.751 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.97 Mbit/s
95th percentile per-packet one-way delay: 135.666 ms
Loss rate: 0.02%
Run 2: Report of Indigo-MusesC3 — Data Link

![Throughput graph]

![Delay graph]
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-02-18 16:34:45
End at: 2020-02-18 16:35:15
Local clock offset: -0.002 ms
Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2020-02-18 19:59:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 519.68 Mbit/s
  95th percentile per-packet one-way delay: 137.052 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 322.82 Mbit/s
  95th percentile per-packet one-way delay: 137.457 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 252.55 Mbit/s
  95th percentile per-packet one-way delay: 136.108 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 173.89 Mbit/s
  95th percentile per-packet one-way delay: 136.261 ms
  Loss rate: 0.00%
Run 3: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1 ingress** (mean 322.81 Mbit/s)
- **Flow 1 egress** (mean 322.82 Mbit/s)
- **Flow 2 ingress** (mean 252.55 Mbit/s)
- **Flow 2 egress** (mean 252.55 Mbit/s)
- **Flow 3 ingress** (mean 173.94 Mbit/s)
- **Flow 3 egress** (mean 173.89 Mbit/s)

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

- **Flow 1** (95th percentile 137.46 ms)
- **Flow 2** (95th percentile 136.11 ms)
- **Flow 3** (95th percentile 136.26 ms)
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-02-18 17:16:58
End at: 2020-02-18 17:17:28
Local clock offset: ~0.143 ms
Remote clock offset: ~0.157 ms

# Below is generated by plot.py at 2020-02-18 19:59:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.98 Mbit/s
95th percentile per-packet one-way delay: 140.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 335.73 Mbit/s
95th percentile per-packet one-way delay: 142.818 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 270.90 Mbit/s
95th percentile per-packet one-way delay: 137.704 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 183.48 Mbit/s
95th percentile per-packet one-way delay: 135.701 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 335.62 Mbps)  
Flow 1 egress (mean 335.73 Mbps)  
Flow 2 ingress (mean 270.90 Mbps)  
Flow 2 egress (mean 270.90 Mbps)  
Flow 3 ingress (mean 183.34 Mbps)  
Flow 3 egress (mean 183.48 Mbps)

Delay (ms)

Time (s)

Flow 1 (95th percentile 142.92 ms)  
Flow 2 (95th percentile 137.70 ms)  
Flow 3 (95th percentile 135.70 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-02-18 17:58:52
End at: 2020-02-18 17:59:22
Local clock offset: -0.068 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-02-18 20:01:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 518.35 Mbit/s
  95th percentile per-packet one-way delay: 138.566 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 321.33 Mbit/s
  95th percentile per-packet one-way delay: 140.441 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 254.60 Mbit/s
  95th percentile per-packet one-way delay: 135.246 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 165.54 Mbit/s
  95th percentile per-packet one-way delay: 133.311 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-02-18 15:12:18
End at: 2020-02-18 15:12:48
Local clock offset: 0.333 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2020-02-18 20:01:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 496.45 Mbit/s
95th percentile per-packet one-way delay: 135.711 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 278.70 Mbit/s
95th percentile per-packet one-way delay: 135.630 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 314.81 Mbit/s
95th percentile per-packet one-way delay: 135.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.91 Mbit/s
95th percentile per-packet one-way delay: 133.415 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-02-18 15:54:31
End at: 2020-02-18 15:55:01
Local clock offset: -0.071 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2020-02-18 20:01:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 466.31 Mbit/s
95th percentile per-packet one-way delay: 136.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 277.72 Mbit/s
95th percentile per-packet one-way delay: 137.361 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 273.26 Mbit/s
95th percentile per-packet one-way delay: 135.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.21 Mbit/s
95th percentile per-packet one-way delay: 135.117 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress** (mean 277.74 Mbit/s)
- **Flow 1 egress** (mean 277.72 Mbit/s)
- **Flow 2 ingress** (mean 273.13 Mbit/s)
- **Flow 2 egress** (mean 273.26 Mbit/s)
- **Flow 3 ingress** (mean 78.21 Mbit/s)
- **Flow 3 egress** (mean 78.22 Mbit/s)

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

- **Flow 1** (95th percentile 137.36 ms)
- **Flow 2** (95th percentile 135.65 ms)
- **Flow 3** (95th percentile 135.12 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-02-18 16:36:37
End at: 2020-02-18 16:37:07
Local clock offset: ~0.037 ms
Remote clock offset: ~0.081 ms

# Below is generated by plot.py at 2020-02-18 20:04:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 498.15 Mbit/s
95th percentile per-packet one-way delay: 143.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.17 Mbit/s
95th percentile per-packet one-way delay: 145.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 251.78 Mbit/s
95th percentile per-packet one-way delay: 139.003 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 134.187 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC5 — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image2)
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-02-18 17:18:52
End at: 2020-02-18 17:19:22
Local clock offset: -0.118 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2020-02-18 20:07:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.06 Mbit/s
95th percentile per-packet one-way delay: 143.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 304.37 Mbit/s
95th percentile per-packet one-way delay: 142.852 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 254.13 Mbit/s
95th percentile per-packet one-way delay: 147.506 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 135.582 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC5 — Data Link
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-02-18 18:00:43
End at: 2020-02-18 18:01:14
Local clock offset: -0.082 ms
Remote clock offset: -0.478 ms

# Below is generated by plot.py at 2020-02-18 20:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 477.64 Mbit/s
95th percentile per-packet one-way delay: 145.844 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 282.31 Mbit/s
95th percentile per-packet one-way delay: 145.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 272.32 Mbit/s
95th percentile per-packet one-way delay: 149.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 98.85 Mbit/s
95th percentile per-packet one-way delay: 134.065 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesC5 — Data Link

```
Flow 1 ingress (mean 282.30 Mbit/s)  Flow 1 egress (mean 282.31 Mbit/s)
Flow 2 ingress (mean 272.20 Mbit/s)  Flow 2 egress (mean 272.32 Mbit/s)
Flow 3 ingress (mean 98.85 Mbit/s)   Flow 3 egress (mean 98.85 Mbit/s)
```
Run 1: Statistics of Indigo-MusesD

Start at: 2020-02-18 15:36:04
End at: 2020-02-18 15:36:34
Local clock offset: 0.035 ms
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2020-02-18 20:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 497.06 Mbit/s
95th percentile per-packet one-way delay: 134.894 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 310.85 Mbit/s
95th percentile per-packet one-way delay: 134.618 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 265.68 Mbit/s
95th percentile per-packet one-way delay: 135.222 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 78.33 Mbit/s
95th percentile per-packet one-way delay: 133.884 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2020-02-18 16:18:51
End at: 2020-02-18 16:19:21
Local clock offset: -0.049 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2020-02-18 20:11:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 495.29 Mbit/s
  95th percentile per-packet one-way delay: 137.910 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 309.35 Mbit/s
  95th percentile per-packet one-way delay: 138.625 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 268.46 Mbit/s
  95th percentile per-packet one-way delay: 136.506 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 63.58 Mbit/s
  95th percentile per-packet one-way delay: 132.535 ms
  Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

![Throughput Graph](image)

- Flow 1 ingress (mean 309.31 Mbit/s)
- Flow 1 egress (mean 309.35 Mbit/s)
- Flow 2 ingress (mean 268.63 Mbit/s)
- Flow 2 egress (mean 268.46 Mbit/s)
- Flow 3 ingress (mean 63.58 Mbit/s)
- Flow 3 egress (mean 63.58 Mbit/s)

![Packet Delay Graph](image)

- Flow 1 (95th percentile 138.62 ms)
- Flow 2 (95th percentile 136.51 ms)
- Flow 3 (95th percentile 132.53 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2020-02-18 17:00:33
End at: 2020-02-18 17:01:03
Local clock offset: -0.112 ms
Remote clock offset: -0.5 ms

# Below is generated by plot.py at 2020-02-18 20:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.33 Mbit/s
95th percentile per-packet one-way delay: 136.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 326.98 Mbit/s
95th percentile per-packet one-way delay: 138.619 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 261.22 Mbit/s
95th percentile per-packet one-way delay: 135.416 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 134.172 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesD — Data Link
Run 4: Statistics of Indigo-MusesD

Start at: 2020-02-18 17:42:36
End at: 2020-02-18 17:43:06
Local clock offset: -0.05 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2020-02-18 20:13:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 467.02 Mbit/s
  95th percentile per-packet one-way delay: 137.384 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 302.60 Mbit/s
  95th percentile per-packet one-way delay: 137.790 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 235.22 Mbit/s
  95th percentile per-packet one-way delay: 136.680 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 70.36 Mbit/s
  95th percentile per-packet one-way delay: 134.753 ms
  Loss rate: 0.01%
Run 4: Report of Indigo-MusesD — Data Link
Run 5: Statistics of Indigo-MusesD

Start at: 2020-02-18 18:24:32
End at: 2020-02-18 18:25:02
Local clock offset: 0.039 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-02-18 20:14:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 520.10 Mbit/s
95th percentile per-packet one-way delay: 140.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 328.80 Mbit/s
95th percentile per-packet one-way delay: 144.332 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 270.36 Mbit/s
95th percentile per-packet one-way delay: 138.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 135.593 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 328.79 Mbit/s)
- Flow 1 egress (mean 328.80 Mbit/s)
- Flow 2 ingress (mean 270.36 Mbit/s)
- Flow 2 egress (mean 270.36 Mbit/s)
- Flow 3 ingress (mean 74.61 Mbit/s)
- Flow 3 egress (mean 74.61 Mbit/s)

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

- Flow 1 (95th percentile 144.33 ms)
- Flow 2 (95th percentile 138.15 ms)
- Flow 3 (95th percentile 135.59 ms)
Run 1: Statistics of Indigo-MusesT

Start at: 2020-02-18 15:20:51
End at: 2020-02-18 15:21:21
Local clock offset: -0.056 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2020-02-18 20:17:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 541.07 Mbit/s
95th percentile per-packet one-way delay: 135.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.32 Mbit/s
95th percentile per-packet one-way delay: 136.074 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 274.11 Mbit/s
95th percentile per-packet one-way delay: 135.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.80 Mbit/s
95th percentile per-packet one-way delay: 135.702 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesT — Data Link
Run 2: Statistics of Indigo-MuseST

Start at: 2020-02-18 16:03:15
End at: 2020-02-18 16:03:45
Local clock offset: -0.103 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2020-02-18 20:22:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.70 Mbit/s
95th percentile per-packet one-way delay: 142.570 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 362.51 Mbit/s
95th percentile per-packet one-way delay: 144.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 303.85 Mbit/s
95th percentile per-packet one-way delay: 137.036 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 134.918 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesT — Data Link

![Graph of Throughput](image1)

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

Start at: 2020-02-18 16:45:22
End at: 2020-02-18 16:45:52
Local clock offset: -0.038 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2020-02-18 20:24:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.64 Mbit/s
95th percentile per-packet one-way delay: 141.175 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 380.83 Mbit/s
95th percentile per-packet one-way delay: 143.538 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 304.82 Mbit/s
95th percentile per-packet one-way delay: 137.304 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 86.09 Mbit/s
95th percentile per-packet one-way delay: 135.585 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2020-02-18 17:27:17
End at: 2020-02-18 17:27:47
Local clock offset: -0.131 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2020-02-18 20:24:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 524.84 Mbit/s
  95th percentile per-packet one-way delay: 141.385 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 320.23 Mbit/s
  95th percentile per-packet one-way delay: 143.012 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 286.64 Mbit/s
  95th percentile per-packet one-way delay: 139.119 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 85.74 Mbit/s
  95th percentile per-packet one-way delay: 133.473 ms
  Loss rate: 0.00%
Run 4: Report of Indigo-MusesT — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 320.22 Mbps)
- Flow 1 egress (mean 320.23 Mbps)
- Flow 2 ingress (mean 286.62 Mbps)
- Flow 2 egress (mean 286.64 Mbps)
- Flow 3 ingress (mean 85.74 Mbps)
- Flow 3 egress (mean 85.74 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 143.01 ms)
- Flow 2 (95th percentile 139.12 ms)
- Flow 3 (95th percentile 133.47 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2020-02-18 18:09:13
End at: 2020-02-18 18:09:43
Local clock offset: -0.131 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-18 20:25:38
# Datalink statistics

-- Total of 3 flows:
Average throughput: 570.03 Mbit/s
95th percentile per-packet one-way delay: 156.489 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 366.63 Mbit/s
95th percentile per-packet one-way delay: 161.759 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 295.01 Mbit/s
95th percentile per-packet one-way delay: 138.773 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 134.135 ms
Loss rate: 0.00%
Run 1: Statistics of LEDBAT

Start at: 2020-02-18 15:09:07
End at: 2020-02-18 15:09:37
Local clock offset: -0.017 ms
Remote clock offset: -0.542 ms

# Below is generated by plot.py at 2020-02-18 20:25:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 7.73 Mbit/s
  95th percentile per-packet one-way delay: 134.099 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 4.93 Mbit/s
  95th percentile per-packet one-way delay: 133.463 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 3.44 Mbit/s
  95th percentile per-packet one-way delay: 134.257 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 1.65 Mbit/s
  95th percentile per-packet one-way delay: 134.839 ms
  Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2020-02-18 15:51:18
End at: 2020-02-18 15:51:48
Local clock offset: -0.11 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2020-02-18 20:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 134.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.20 Mbit/s
95th percentile per-packet one-way delay: 134.323 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 134.466 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 135.262 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 5.20 Mbit/s)
- Flow 1 egress (mean 5.20 Mbit/s)
- Flow 2 ingress (mean 3.47 Mbit/s)
- Flow 2 egress (mean 3.47 Mbit/s)
- Flow 3 ingress (mean 1.65 Mbit/s)
- Flow 3 egress (mean 1.65 Mbit/s)

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

- Flow 1 (95th percentile 134.32 ms)
- Flow 2 (95th percentile 134.47 ms)
- Flow 3 (95th percentile 135.26 ms)
Run 3: Statistics of LEDBAT

Start at: 2020-02-18 16:33:24
End at: 2020-02-18 16:33:54
Local clock offset: -0.054 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-02-18 20:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.03 Mbit/s
95th percentile per-packet one-way delay: 136.130 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 136.302 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 132.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 132.782 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

Graph 1: Throughput (Mbps) over Time (s)
- Blue dashed: Flow 1 ingress (mean 5.18 Mbps)
- Blue solid: Flow 1 egress (mean 5.18 Mbps)
- Green dashed: Flow 2 ingress (mean 3.46 Mbps)
- Green solid: Flow 2 egress (mean 3.46 Mbps)
- Red dashed: Flow 3 ingress (mean 1.71 Mbps)
- Red solid: Flow 3 egress (mean 1.71 Mbps)

Graph 2: Per-packet one-way delay (ms) over Time (s)
- Blue: Flow 1 (95th percentile 136.30 ms)
- Green: Flow 2 (95th percentile 132.78 ms)
- Red: Flow 3 (95th percentile 132.78 ms)
Run 4: Statistics of LEDBAT

Start at: 2020-02-18 17:15:38
End at: 2020-02-18 17:16:08
Local clock offset: -0.165 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2020-02-18 20:25:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 7.95 Mbit/s
  95th percentile per-packet one-way delay: 136.098 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 5.16 Mbit/s
  95th percentile per-packet one-way delay: 136.146 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 3.38 Mbit/s
  95th percentile per-packet one-way delay: 136.072 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 1.70 Mbit/s
  95th percentile per-packet one-way delay: 133.197 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 5.16 Mbps)
- Flow 1 egress (mean 5.16 Mbps)
- Flow 2 ingress (mean 3.38 Mbps)
- Flow 2 egress (mean 3.38 Mbps)
- Flow 3 ingress (mean 1.70 Mbps)
- Flow 3 egress (mean 1.70 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 136.15 ms)
- Flow 2 (95th percentile 136.07 ms)
- Flow 3 (95th percentile 133.20 ms)
Run 5: Statistics of LEDBAT

Start at: 2020-02-18 17:57:31
End at: 2020-02-18 17:58:01
Local clock offset: -0.069 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2020-02-18 20:25:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 135.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 135.849 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 133.895 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 135.915 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 15:27:21  
End at: 2020-02-18 15:27:51  
Local clock offset: -0.078 ms  
Remote clock offset: -0.109 ms 

# Below is generated by plot.py at 2020-02-18 20:25:38  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 304.35 Mbit/s  
  95th percentile per-packet one-way delay: 136.568 ms  
  Loss rate: 0.00%  
-- Flow 1:  
  Average throughput: 0.42 Mbit/s  
  95th percentile per-packet one-way delay: 133.599 ms  
  Loss rate: 0.00%  
-- Flow 2:  
  Average throughput: 349.50 Mbit/s  
  95th percentile per-packet one-way delay: 137.131 ms  
  Loss rate: 0.00%  
-- Flow 3:  
  Average throughput: 228.30 Mbit/s  
  95th percentile per-packet one-way delay: 133.960 ms  
  Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link

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

Flow 1 ingress (mean 0.42 Mbit/s)  
Flow 1 egress (mean 0.42 Mbit/s)  
Flow 2 ingress (mean 349.50 Mbit/s)  
Flow 2 egress (mean 349.50 Mbit/s)  
Flow 3 ingress (mean 228.29 Mbit/s)  
Flow 3 egress (mean 228.30 Mbit/s)
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 16:09:48
End at: 2020-02-18 16:10:18
Local clock offset: 0.273 ms
Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2020-02-18 20:27:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 505.48 Mbit/s
95th percentile per-packet one-way delay: 135.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 324.96 Mbit/s
95th percentile per-packet one-way delay: 136.218 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 223.20 Mbit/s
95th percentile per-packet one-way delay: 134.354 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 106.37 Mbit/s
95th percentile per-packet one-way delay: 134.981 ms
Loss rate: 0.00%
Run 2: Report of Muses DecisionTree — Data Link
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 16:51:54
End at: 2020-02-18 16:52:24
Local clock offset: -0.029 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2020-02-18 20:27:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 261.56 Mbit/s
95th percentile per-packet one-way delay: 170.857 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 135.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 310.77 Mbit/s
95th percentile per-packet one-way delay: 212.322 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 175.16 Mbit/s
95th percentile per-packet one-way delay: 133.993 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTree — Data Link

![Graph showing network performance metrics over time for different flows.](image-url)
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 17:33:46
End at: 2020-02-18 17:34:16
Local clock offset: -0.116 ms
Remote clock offset: -0.506 ms

# Below is generated by plot.py at 2020-02-18 20:27:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 270.24 Mbit/s
95th percentile per-packet one-way delay: 140.987 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 135.076 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 314.30 Mbit/s
95th percentile per-packet one-way delay: 142.723 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 191.13 Mbit/s
95th percentile per-packet one-way delay: 133.977 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecimalTree — Data Link

![Graph of Throughput](image1)

![Graph of Packet Delay](image2)
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-02-18 18:15:32
End at: 2020-02-18 18:16:02
Local clock offset: 0.232 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2020-02-18 20:33:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 481.84 Mbit/s
95th percentile per-packet one-way delay: 134.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 275.14 Mbit/s
95th percentile per-packet one-way delay: 134.762 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 240.49 Mbit/s
95th percentile per-packet one-way delay: 135.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 152.28 Mbit/s
95th percentile per-packet one-way delay: 133.614 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 15:24:02
End at: 2020-02-18 15:24:32
Local clock offset: -0.106 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2020-02-18 20:35:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 527.88 Mbit/s
95th percentile per-packet one-way delay: 146.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.65 Mbit/s
95th percentile per-packet one-way delay: 150.593 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 248.14 Mbit/s
95th percentile per-packet one-way delay: 134.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.27 Mbit/s
95th percentile per-packet one-way delay: 135.529 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 16:06:29
End at: 2020-02-18 16:06:59
Local clock offset: ~0.057 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2020-02-18 20:35:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 526.38 Mbit/s
95th percentile per-packet one-way delay: 137.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 301.86 Mbit/s
95th percentile per-packet one-way delay: 138.470 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 270.42 Mbit/s
95th percentile per-packet one-way delay: 137.706 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 144.77 Mbit/s
95th percentile per-packet one-way delay: 135.223 ms
Loss rate: 0.00%
Run 2: Report of Muses_DocumentTreeH0 — Data Link

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

Additional text or remarks:
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 16:48:36
End at: 2020-02-18 16:49:06
Local clock offset: -0.026 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2020-02-18 20:36:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.43 Mbit/s
95th percentile per-packet one-way delay: 170.808 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 285.84 Mbit/s
95th percentile per-packet one-way delay: 178.080 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 209.56 Mbit/s
95th percentile per-packet one-way delay: 142.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 176.96 Mbit/s
95th percentile per-packet one-way delay: 134.767 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTreeH0 — Data Link

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

- **Flow 1**: Ingress (mean 286.13 Mbit/s), Egress (mean 285.84 Mbit/s)
- **Flow 2**: Ingress (mean 299.52 Mbit/s), Egress (mean 299.56 Mbit/s)
- **Flow 3**: Ingress (mean 176.95 Mbit/s), Egress (mean 176.96 Mbit/s)

- **One-packet-loss rate/day [ms]**
  - Flow 1 (95th percentile 178.08 ms)
  - Flow 2 (95th percentile 142.32 ms)
  - Flow 3 (95th percentile 134.77 ms)
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 17:30:27
End at: 2020-02-18 17:30:57
Local clock offset: -0.095 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2020-02-18 20:38:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 525.57 Mbit/s
95th percentile per-packet one-way delay: 170.525 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 306.93 Mbit/s
95th percentile per-packet one-way delay: 185.521 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 252.16 Mbit/s
95th percentile per-packet one-way delay: 136.909 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 164.17 Mbit/s
95th percentile per-packet one-way delay: 136.115 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 306.95 Mbit/s)
- Flow 1 egress (mean 306.93 Mbit/s)
- Flow 2 ingress (mean 252.17 Mbit/s)
- Flow 2 egress (mean 252.16 Mbit/s)
- Flow 3 ingress (mean 164.15 Mbit/s)
- Flow 3 egress (mean 164.17 Mbit/s)

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

- Flow 1 (95th percentile 185.52 ms)
- Flow 2 (95th percentile 136.91 ms)
- Flow 3 (95th percentile 136.12 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-02-18 18:12:27
End at: 2020-02-18 18:12:57
Local clock offset: -0.093 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2020-02-18 20:38:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.04 Mbit/s
95th percentile per-packet one-way delay: 171.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 133.236 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 348.66 Mbit/s
95th percentile per-packet one-way delay: 174.766 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.54 Mbit/s
95th percentile per-packet one-way delay: 135.848 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

---

**Throughput:**

- **Flow 1 ingress:** mean 0.12 Mbit/s
- **Flow 1 egress:** mean 0.12 Mbit/s
- **Flow 2 ingress:** mean 348.62 Mbit/s
- **Flow 2 egress:** mean 348.66 Mbit/s
- **Flow 3 ingress:** mean 201.48 Mbit/s
- **Flow 3 egress:** mean 201.54 Mbit/s

**Per-packet one-way delay:**

- **Flow 1:** 95th percentile 133.24 ms
- **Flow 2:** 95th percentile 174.77 ms
- **Flow 3:** 95th percentile 135.85 ms
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 15:41:34
End at: 2020-02-18 15:42:04
Local clock offset: -0.086 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2020-02-18 20:38:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 503.89 Mbit/s
95th percentile per-packet one-way delay: 136.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.58 Mbit/s
95th percentile per-packet one-way delay: 137.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.06 Mbit/s
95th percentile per-packet one-way delay: 134.905 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.98 Mbit/s
95th percentile per-packet one-way delay: 135.124 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeR0 — Data Link

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

- **Flow 1 ingress (mean 314.57 Mbit/s)**
- **Flow 1 egress (mean 314.58 Mbit/s)**
- **Flow 2 ingress (mean 222.05 Mbit/s)**
- **Flow 2 egress (mean 222.06 Mbit/s)**
- **Flow 3 ingress (mean 133.98 Mbit/s)**
- **Flow 3 egress (mean 133.98 Mbit/s)**

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

- **Flow 1 (95th percentile 137.28 ms)**
- **Flow 2 (95th percentile 134.91 ms)**
- **Flow 3 (95th percentile 135.12 ms)**

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Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 16:24:16  
End at: 2020-02-18 16:24:46  
Local clock offset: 0.299 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-02-18 20:38:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 240.98 Mbit/s  
95th percentile per-packet one-way delay: 135.343 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 133.980 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 265.38 Mbit/s  
95th percentile per-packet one-way delay: 135.630 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 204.21 Mbit/s  
95th percentile per-packet one-way delay: 132.554 ms  
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeR0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 17:06:04
End at: 2020-02-18 17:06:34
Local clock offset: -0.113 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2020-02-18 20:44:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.02 Mbit/s
95th percentile per-packet one-way delay: 140.160 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 299.52 Mbit/s
95th percentile per-packet one-way delay: 155.000 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 245.88 Mbit/s
95th percentile per-packet one-way delay: 134.959 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.09 Mbit/s
95th percentile per-packet one-way delay: 134.276 ms
Loss rate: 0.00%
Run 3: Report of Muses_DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 17:48:05
End at: 2020-02-18 17:48:35
Local clock offset: -0.08 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2020-02-18 20:44:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 271.36 Mbit/s
  95th percentile per-packet one-way delay: 163.927 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 0.42 Mbit/s
  95th percentile per-packet one-way delay: 132.361 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 315.28 Mbit/s
  95th percentile per-packet one-way delay: 176.504 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 198.85 Mbit/s
  95th percentile per-packet one-way delay: 132.748 ms
  Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-02-18 18:30:08
End at: 2020-02-18 18:30:38
Local clock offset: -0.182 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2020-02-18 20:45:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 505.28 Mbit/s
95th percentile per-packet one-way delay: 135.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 299.51 Mbit/s
95th percentile per-packet one-way delay: 134.527 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 248.64 Mbit/s
95th percentile per-packet one-way delay: 138.168 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 134.52 Mbit/s
95th percentile per-packet one-way delay: 135.219 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeR0 — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2020-02-18 15:45:05
End at: 2020-02-18 15:45:35
Local clock offset: -0.147 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2020-02-18 21:02:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 550.17 Mbit/s
95th percentile per-packet one-way delay: 270.675 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 307.70 Mbit/s
95th percentile per-packet one-way delay: 276.345 ms
Loss rate: 6.68%
-- Flow 2:
Average throughput: 257.03 Mbit/s
95th percentile per-packet one-way delay: 143.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 217.69 Mbit/s
95th percentile per-packet one-way delay: 136.973 ms
Loss rate: 0.00%
Run 1: Report of PCC-Allegro — Data Link

![Graph showing network traffic and delay](image)

### Throughput (Mbps)
- Flow 1 ingress (mean 329.72 Mbps)
- Flow 1 egress (mean 307.70 Mbps)
- Flow 2 ingress (mean 257.03 Mbps)
- Flow 2 egress (mean 257.03 Mbps)
- Flow 3 ingress (mean 217.71 Mbps)
- Flow 3 egress (mean 217.69 Mbps)

### Per-packet one-way delay (ms)
- Flow 1 (95th percentile 276.35 ms)
- Flow 2 (95th percentile 143.16 ms)
- Flow 3 (95th percentile 136.97 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2020-02-18 16:27:34
End at: 2020-02-18 16:28:04
Local clock offset: -0.081 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2020-02-18 21:02:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 530.13 Mbit/s
  95th percentile per-packet one-way delay: 250.744 ms
  Loss rate: 1.92%
-- Flow 1:
  Average throughput: 316.53 Mbit/s
  95th percentile per-packet one-way delay: 170.104 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 214.43 Mbit/s
  95th percentile per-packet one-way delay: 274.093 ms
  Loss rate: 5.42%
-- Flow 3:
  Average throughput: 216.08 Mbit/s
  95th percentile per-packet one-way delay: 144.022 ms
  Loss rate: 0.00%
Run 2: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 318.71 Mbps)
- Flow 1 egress (mean 316.53 Mbps)
- Flow 2 ingress (mean 226.72 Mbps)
- Flow 2 egress (mean 214.43 Mbps)
- Flow 3 ingress (mean 216.07 Mbps)
- Flow 3 egress (mean 216.08 Mbps)

Per-packet one-way delay (ms):
- Flow 1 (95th percentile 170.10 ms)
- Flow 2 (95th percentile 274.09 ms)
- Flow 3 (95th percentile 144.02 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-02-18 17:09:41
End at: 2020-02-18 17:10:11
Local clock offset: 0.235 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2020-02-18 21:04:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 583.46 Mbit/s
95th percentile per-packet one-way delay: 254.099 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 324.36 Mbit/s
95th percentile per-packet one-way delay: 266.942 ms
Loss rate: 2.30%
-- Flow 2:
Average throughput: 278.82 Mbit/s
95th percentile per-packet one-way delay: 201.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 224.72 Mbit/s
95th percentile per-packet one-way delay: 140.434 ms
Loss rate: 0.00%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2020-02-18 17:51:22
End at: 2020-02-18 17:51:52
Local clock offset: 0.274 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2020-02-18 21:05:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.24 Mbit/s
95th percentile per-packet one-way delay: 219.975 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 316.19 Mbit/s
95th percentile per-packet one-way delay: 225.402 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 263.11 Mbit/s
95th percentile per-packet one-way delay: 219.713 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 210.28 Mbit/s
95th percentile per-packet one-way delay: 148.954 ms
Loss rate: 0.00%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Start at: 2020-02-18 18:33:37
End at: 2020-02-18 18:34:07
Local clock offset: -0.137 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2020-02-18 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 569.83 Mbit/s
95th percentile per-packet one-way delay: 190.391 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 327.55 Mbit/s
95th percentile per-packet one-way delay: 186.877 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 259.84 Mbit/s
95th percentile per-packet one-way delay: 224.172 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 211.31 Mbit/s
95th percentile per-packet one-way delay: 185.278 ms
Loss rate: 0.00%
Run 5: Report of PCC-Allegro — Data Link

![Graph of Throughput vs. Time for Flows 1, 2, and 3]  
- **Flow 1 ingress** (mean 330.08 Mbit/s)  
- **Flow 1 egress** (mean 327.55 Mbit/s)  
- **Flow 2 ingress** (mean 264.43 Mbit/s)  
- **Flow 2 egress** (mean 259.84 Mbit/s)  
- **Flow 3 ingress** (mean 211.29 Mbit/s)  
- **Flow 3 egress** (mean 211.31 Mbit/s)

![Graph of Per-packet one-way delay vs. Time for Flows 1, 2, and 3]  
- **Flow 1** (95th percentile 186.88 ms)  
- **Flow 2** (95th percentile 224.17 ms)  
- **Flow 3** (95th percentile 185.28 ms)

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Run 1: Statistics of PCC-Expr

Start at: 2020-02-18 15:14:07
End at: 2020-02-18 15:14:37
Local clock offset: -0.058 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2020-02-18 21:05:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.43 Mbit/s
95th percentile per-packet one-way delay: 136.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.47 Mbit/s
95th percentile per-packet one-way delay: 134.355 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.85 Mbit/s
95th percentile per-packet one-way delay: 157.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 137.29 Mbit/s
95th percentile per-packet one-way delay: 135.307 ms
Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2020-02-18 15:56:20
End at: 2020-02-18 15:56:50
Local clock offset: 0.295 ms
Remote clock offset: -0.369 ms

# Below is generated by plot.py at 2020-02-18 21:05:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 416.20 Mbit/s
  95th percentile per-packet one-way delay: 145.798 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 261.58 Mbit/s
  95th percentile per-packet one-way delay: 148.288 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 164.01 Mbit/s
  95th percentile per-packet one-way delay: 144.456 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 138.30 Mbit/s
  95th percentile per-packet one-way delay: 135.073 ms
  Loss rate: 0.00%
Run 3: Statistics of PCC-Expr

Start at: 2020-02-18 16:38:27
End at: 2020-02-18 16:38:57
Local clock offset: -0.063 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2020-02-18 21:05:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 332.27 Mbit/s
  95th percentile per-packet one-way delay: 136.912 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 177.08 Mbit/s
  95th percentile per-packet one-way delay: 136.068 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 161.89 Mbit/s
  95th percentile per-packet one-way delay: 137.817 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 144.08 Mbit/s
  95th percentile per-packet one-way delay: 137.357 ms
  Loss rate: 0.00%
Run 3: Report of PCC-Expr — Data Link

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

Start at: 2020-02-18 17:20:42
End at: 2020-02-18 17:21:12
Local clock offset: 0.201 ms
Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2020-02-18 21:12:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.10 Mbit/s
95th percentile per-packet one-way delay: 136.241 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 178.68 Mbit/s
95th percentile per-packet one-way delay: 133.840 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.19 Mbit/s
95th percentile per-packet one-way delay: 137.289 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 140.29 Mbit/s
95th percentile per-packet one-way delay: 137.241 ms
Loss rate: 0.00%
Run 4: Report of PCC-Expr — Data Link
Run 5: Statistics of PCC-Expr

Start at: 2020-02-18 18:02:33
End at: 2020-02-18 18:03:03
Local clock offset: -0.1 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2020-02-18 21:17:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.81 Mbit/s
95th percentile per-packet one-way delay: 138.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.13 Mbit/s
95th percentile per-packet one-way delay: 138.173 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 177.12 Mbit/s
95th percentile per-packet one-way delay: 137.523 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 139.40 Mbit/s
95th percentile per-packet one-way delay: 142.432 ms
Loss rate: 0.00%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 187.13 Mbit/s)
- Flow 1 egress (mean 187.13 Mbit/s)
- Flow 2 ingress (mean 177.12 Mbit/s)
- Flow 2 egress (mean 177.12 Mbit/s)
- Flow 3 ingress (mean 139.38 Mbit/s)
- Flow 3 egress (mean 139.40 Mbit/s)

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

- Flow 1 (95th percentile 138.17 ms)
- Flow 2 (95th percentile 137.52 ms)
- Flow 3 (95th percentile 142.43 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2020-02-18 15:25:55
End at: 2020-02-18 15:26:25
Local clock offset: -0.088 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2020-02-18 21:17:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.57 Mbit/s
  95th percentile per-packet one-way delay: 135.054 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 53.66 Mbit/s
  95th percentile per-packet one-way delay: 134.551 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 44.81 Mbit/s
  95th percentile per-packet one-way delay: 133.444 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 37.72 Mbit/s
  95th percentile per-packet one-way delay: 135.145 ms
  Loss rate: 0.02%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2020-02-18 16:08:22
End at: 2020-02-18 16:08:52
Local clock offset: -0.06 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2020-02-18 21:17:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.60 Mbit/s
95th percentile per-packet one-way delay: 134.529 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 48.93 Mbit/s
95th percentile per-packet one-way delay: 134.032 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 40.67 Mbit/s
95th percentile per-packet one-way delay: 134.031 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 134.608 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 48.93 Mbit/s)
- Flow 1 egress (mean 48.93 Mbit/s)
- Flow 2 ingress (mean 40.67 Mbit/s)
- Flow 2 egress (mean 40.67 Mbit/s)
- Flow 3 ingress (mean 48.39 Mbit/s)
- Flow 3 egress (mean 48.39 Mbit/s)
Run 3: Statistics of QUIC Cubic

Start at: 2020-02-18 16:50:27
End at: 2020-02-18 16:50:57
Local clock offset: -0.025 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 103.88 Mbit/s
95th percentile per-packet one-way delay: 135.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.17 Mbit/s
95th percentile per-packet one-way delay: 135.138 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 51.76 Mbit/s
95th percentile per-packet one-way delay: 133.752 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 133.756 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link

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

- **Flow 1 Ingress (mean 53.17 Mbit/s)**
- **Flow 1 Egress (mean 53.17 Mbit/s)**
- **Flow 2 Ingress (mean 51.76 Mbit/s)**
- **Flow 2 Egress (mean 51.76 Mbit/s)**
- **Flow 3 Ingress (mean 50.91 Mbit/s)**
- **Flow 3 Egress (mean 50.91 Mbit/s)**

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

- **Flow 1 (95th percentile 135.14 ms)**
- **Flow 2 (95th percentile 133.75 ms)**
- **Flow 3 (95th percentile 133.76 ms)**
Run 4: Statistics of QUIC Cubic

Start at: 2020-02-18 17:32:20
End at: 2020-02-18 17:32:50
Local clock offset: -0.115 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.79 Mbit/s
95th percentile per-packet one-way delay: 135.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.24 Mbit/s
95th percentile per-packet one-way delay: 135.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 135.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 135.313 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

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

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

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Run 5: Statistics of QUIC Cubic

Start at: 2020-02-18 18:14:05
End at: 2020-02-18 18:14:35
Local clock offset: -0.141 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 98.48 Mbit/s
  95th percentile per-packet one-way delay: 134.467 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 55.85 Mbit/s
  95th percentile per-packet one-way delay: 134.050 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 47.19 Mbit/s
  95th percentile per-packet one-way delay: 134.059 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 35.33 Mbit/s
  95th percentile per-packet one-way delay: 134.561 ms
  Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

[Graph showing throughput over time for different flows.

Lower graph showing packet loss over time for different flows.

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Run 1: Statistics of SCReAM

Start at: 2020-02-18 15:16:07
End at: 2020-02-18 15:16:37
Local clock offset: -0.04 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 133.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 133.385 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.636 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.456 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2020-02-18 15:58:26
End at: 2020-02-18 15:58:56
Local clock offset: -0.056 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 134.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 134.062 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 134.640 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 134.052 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

![Graph showing throughput and delay over time for different flows.](image-url)
Run 3: Statistics of SCReAM

Start at: 2020-02-18 16:40:24
End at: 2020-02-18 16:40:54
Local clock offset: -0.043 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.41 Mbit/s
  95th percentile per-packet one-way delay: 135.257 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 134.714 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 135.282 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 134.148 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2020-02-18 17:22:40
End at: 2020-02-18 17:23:10
Local clock offset: -0.178 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 135.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 134.224 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.086 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 0.21 Mbit/s)
Flow 1 egress (mean 0.21 Mbit/s)
Flow 2 ingress (mean 0.15 Mbit/s)
Flow 2 egress (mean 0.15 Mbit/s)
Flow 3 ingress (mean 0.16 Mbit/s)
Flow 3 egress (mean 0.16 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 134.22 ms)
Flow 2 (95th percentile 135.40 ms)
Flow 3 (95th percentile 133.09 ms)
Run 5: Statistics of SCReAM

Start at: 2020-02-18 18:04:33
End at: 2020-02-18 18:05:03
Local clock offset: -0.094 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.41 Mbit/s
  95th percentile per-packet one-way delay: 134.089 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 133.222 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 134.116 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 132.335 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2020-02-18 15:22:43
End at: 2020-02-18 15:23:13
Local clock offset: -0.08 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 135.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 135.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.111 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 135.327 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2020-02-18 16:05:09
End at: 2020-02-18 16:05:39
Local clock offset: 0.295 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.12 Mbit/s
  95th percentile per-packet one-way delay: 135.005 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.51 Mbit/s
  95th percentile per-packet one-way delay: 134.426 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.67 Mbit/s
  95th percentile per-packet one-way delay: 134.422 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.50 Mbit/s
  95th percentile per-packet one-way delay: 135.130 ms
  Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

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

- Flow 1 (ingress) mean 0.51 Mbit/s
- Flow 1 (egress) mean 0.51 Mbit/s
- Flow 2 (ingress) mean 0.67 Mbit/s
- Flow 2 (egress) mean 0.67 Mbit/s
- Flow 3 (ingress) mean 0.50 Mbit/s
- Flow 3 (egress) mean 0.50 Mbit/s
Run 3: Statistics of Sprout

Start at: 2020-02-18 16:47:17
End at: 2020-02-18 16:47:47
Local clock offset: -0.009 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 135.282 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 135.301 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 135.359 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2020-02-18 17:29:08
End at: 2020-02-18 17:29:38
Local clock offset: -0.102 ms
Remote clock offset: -0.514 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 134.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 132.705 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 134.339 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 132.644 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2020-02-18 18:11:07
End at: 2020-02-18 18:11:37
Local clock offset: -0.12 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2020-02-18 21:17:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 134.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 134.452 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 133.277 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 134.193 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 0.63 Mbit/s)**
- **Flow 1 egress (mean 0.63 Mbit/s)**
- **Flow 2 ingress (mean 0.51 Mbit/s)**
- **Flow 2 egress (mean 0.51 Mbit/s)**
- **Flow 3 ingress (mean 0.62 Mbit/s)**
- **Flow 3 egress (mean 0.62 Mbit/s)**

- **Round-trip time for each flow.**
  - Flow 1 (95th percentile 134.45 ms)
  - Flow 2 (95th percentile 133.28 ms)
  - Flow 3 (95th percentile 134.19 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2020-02-18 15:37:54
End at: 2020-02-18 15:38:24
Local clock offset: -0.114 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2020-02-18 21:20:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 309.29 Mbit/s
  95th percentile per-packet one-way delay: 135.567 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 173.54 Mbit/s
  95th percentile per-packet one-way delay: 135.426 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 163.35 Mbit/s
  95th percentile per-packet one-way delay: 135.933 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 81.20 Mbit/s
  95th percentile per-packet one-way delay: 134.602 ms
  Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2020-02-18 16:20:41
End at: 2020-02-18 16:21:11
Local clock offset: -0.052 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2020-02-18 21:20:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.60 Mbit/s
95th percentile per-packet one-way delay: 134.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.81 Mbit/s
95th percentile per-packet one-way delay: 132.673 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 134.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.60 Mbit/s
95th percentile per-packet one-way delay: 134.109 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2020-02-18 17:02:24
End at: 2020-02-18 17:02:54
Local clock offset: -0.12 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2020-02-18 21:20:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 237.89 Mbit/s
  95th percentile per-packet one-way delay: 135.432 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 191.81 Mbit/s
  95th percentile per-packet one-way delay: 135.437 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 12.76 Mbit/s
  95th percentile per-packet one-way delay: 135.240 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 113.00 Mbit/s
  95th percentile per-packet one-way delay: 135.582 ms
  Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2020-02-18 17:44:25  
End at: 2020-02-18 17:44:55  
Local clock offset: 0.286 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2020-02-18 21:20:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.12 Mbit/s
95th percentile per-packet one-way delay: 134.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.55 Mbit/s
95th percentile per-packet one-way delay: 134.907 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.87 Mbit/s
95th percentile per-packet one-way delay: 134.914 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.70 Mbit/s
95th percentile per-packet one-way delay: 133.956 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 185.55 Mbit/s)  
Flow 1 egress (mean 185.55 Mbit/s)  
Flow 2 ingress (mean 12.87 Mbit/s)  
Flow 2 egress (mean 12.87 Mbit/s)  
Flow 3 ingress (mean 12.70 Mbit/s)  
Flow 3 egress (mean 12.70 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 134.91 ms)  
Flow 2 (95th percentile 134.91 ms)  
Flow 3 (95th percentile 133.96 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2020-02-18 18:26:23
End at: 2020-02-18 18:26:53
Local clock offset: -0.172 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2020-02-18 21:23:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.69 Mbit/s
95th percentile per-packet one-way delay: 136.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.38 Mbit/s
95th percentile per-packet one-way delay: 136.500 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 165.48 Mbit/s
95th percentile per-packet one-way delay: 136.769 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 135.98 Mbit/s
95th percentile per-packet one-way delay: 137.903 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2020-02-18 15:39:49
End at: 2020-02-18 15:40:19
Local clock offset: -0.088 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2020-02-18 21:23:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.13 Mbit/s
95th percentile per-packet one-way delay: 135.605 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 151.43 Mbit/s
95th percentile per-packet one-way delay: 134.367 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 240.26 Mbit/s
95th percentile per-packet one-way delay: 143.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 132.96 Mbit/s
95th percentile per-packet one-way delay: 135.443 ms
Loss rate: 0.01%
Run 1: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 151.42 Mbit/s)
- Flow 1 egress (mean 151.43 Mbit/s)
- Flow 2 ingress (mean 240.26 Mbit/s)
- Flow 2 egress (mean 240.26 Mbit/s)
- Flow 3 ingress (mean 132.96 Mbit/s)
- Flow 3 egress (mean 132.96 Mbit/s)

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

- Flow 1 (95th percentile 134.37 ms)
- Flow 2 (95th percentile 144.00 ms)
- Flow 3 (95th percentile 135.44 ms)
Run 2: Statistics of TCP Vegas

Start at: 2020-02-18 16:22:24
End at: 2020-02-18 16:22:54
Local clock offset: -0.056 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-02-18 21:25:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.28 Mbit/s
95th percentile per-packet one-way delay: 140.685 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.08 Mbit/s
95th percentile per-packet one-way delay: 135.079 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 302.12 Mbit/s
95th percentile per-packet one-way delay: 136.931 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 285.63 Mbit/s
95th percentile per-packet one-way delay: 164.685 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2020-02-18 17:04:11
End at: 2020-02-18 17:04:41
Local clock offset: 0.223 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2020-02-18 21:28:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 510.88 Mbit/s
95th percentile per-packet one-way delay: 159.088 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 196.72 Mbit/s
95th percentile per-packet one-way delay: 134.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 373.58 Mbit/s
95th percentile per-packet one-way delay: 159.867 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 196.63 Mbit/s
95th percentile per-packet one-way delay: 250.760 ms
Loss rate: 1.49%
Run 3: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 196.71 Mbit/s)
- Flow 1 egress (mean 196.72 Mbit/s)
- Flow 2 ingress (mean 373.57 Mbit/s)
- Flow 2 egress (mean 373.58 Mbit/s)
- Flow 3 ingress (mean 196.60 Mbit/s)
- Flow 3 egress (mean 196.63 Mbit/s)
Run 4: Statistics of TCP Vegas

Start at: 2020-02-18 17:46:08
End at: 2020-02-18 17:46:38
Local clock offset: -0.062 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2020-02-18 21:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.67 Mbit/s
95th percentile per-packet one-way delay: 142.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 283.66 Mbit/s
95th percentile per-packet one-way delay: 137.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 333.72 Mbit/s
95th percentile per-packet one-way delay: 149.528 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.82 Mbit/s
95th percentile per-packet one-way delay: 150.172 ms
Loss rate: 0.01%
Run 5: Statistics of TCP Vegas

Start at: 2020-02-18 18:28:23
End at: 2020-02-18 18:28:53
Local clock offset: -0.137 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2020-02-18 21:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.13 Mbit/s
95th percentile per-packet one-way delay: 138.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 100.01 Mbit/s
95th percentile per-packet one-way delay: 133.221 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 319.65 Mbit/s
95th percentile per-packet one-way delay: 141.620 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 160.26 Mbit/s
95th percentile per-packet one-way delay: 139.963 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, with annotations for mean throughput and 95th percentile delay.]
Run 1: Statistics of Verus

Start at: 2020-02-18 15:17:25
End at: 2020-02-18 15:17:55
Local clock offset: -0.06 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2020-02-18 21:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 142.50 Mbit/s
95th percentile per-packet one-way delay: 176.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 160.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 113.07 Mbit/s
95th percentile per-packet one-way delay: 183.389 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 139.864 ms
Loss rate: 0.00%
Run 1: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 59.88 Mbps)
- **Flow 1 egress** (mean 59.89 Mbps)
- **Flow 2 ingress** (mean 113.07 Mbps)
- **Flow 2 egress** (mean 113.07 Mbps)
- **Flow 3 ingress** (mean 24.36 Mbps)
- **Flow 3 egress** (mean 24.36 Mbps)

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

- **Flow 1** (95th percentile 160.95 ms)
- **Flow 2** (95th percentile 183.39 ms)
- **Flow 3** (95th percentile 139.86 ms)
Run 2: Statistics of Verus

Start at: 2020-02-18 15:59:45
End at: 2020-02-18 16:00:15
Local clock offset: 0.295 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2020-02-18 21:31:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 177.21 Mbit/s
  95th percentile per-packet one-way delay: 217.632 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 46.46 Mbit/s
  95th percentile per-packet one-way delay: 141.071 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 137.83 Mbit/s
  95th percentile per-packet one-way delay: 211.849 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 121.89 Mbit/s
  95th percentile per-packet one-way delay: 256.839 ms
  Loss rate: 0.00%
Run 2: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 46.51 Mbps)
  - Flow 1 egress (mean 46.46 Mbps)
  - Flow 2 ingress (mean 137.84 Mbps)
  - Flow 2 egress (mean 137.83 Mbps)
  - Flow 3 ingress (mean 121.89 Mbps)
  - Flow 3 egress (mean 121.89 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 141.07 ms)
  - Flow 2 (95th percentile 211.85 ms)
  - Flow 3 (95th percentile 256.84 ms)
Run 3: Statistics of Verus

Start at: 2020-02-18 16:41:43
End at: 2020-02-18 16:42:13
Local clock offset: -0.052 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-02-18 21:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.25 Mbit/s
95th percentile per-packet one-way delay: 236.946 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 221.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 154.06 Mbit/s
95th percentile per-packet one-way delay: 248.204 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 59.50 Mbit/s
95th percentile per-packet one-way delay: 146.583 ms
Loss rate: 0.00%
Run 3: Report of Verus — Data Link

![Graph of Throughput and Delay](image)

**Throughput (Mbps):**
- Flow 1 ingress (mean 77.76 Mbps)
- Flow 2 ingress (mean 154.14 Mbps)
- Flow 3 ingress (mean 59.50 Mbps)
- Flow 1 egress (mean 77.76 Mbps)
- Flow 2 egress (mean 154.06 Mbps)
- Flow 3 egress (mean 59.50 Mbps)

**Delay (ms):**
- Flow 1 (95th percentile 221.94 ms)
- Flow 2 (95th percentile 248.20 ms)
- Flow 3 (95th percentile 146.58 ms)
Run 4: Statistics of Verus

Start at: 2020-02-18 17:23:59
End at: 2020-02-18 17:24:29
Local clock offset: -0.178 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2020-02-18 21:31:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 137.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.25 Mbit/s
95th percentile per-packet one-way delay: 137.362 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.80 Mbit/s
95th percentile per-packet one-way delay: 139.653 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.24 Mbit/s
95th percentile per-packet one-way delay: 135.665 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2020-02-18 18:05:51
End at: 2020-02-18 18:06:21
Local clock offset: -0.121 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2020-02-18 21:33:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.23 Mbit/s
95th percentile per-packet one-way delay: 195.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 135.07 Mbit/s
95th percentile per-packet one-way delay: 200.923 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.42 Mbit/s
95th percentile per-packet one-way delay: 161.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 144.182 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)](chart1)
- Flow 1 ingress (mean 135.07 Mbps)
- Flow 1 egress (mean 135.07 Mbps)
- Flow 2 ingress (mean 68.42 Mbps)
- Flow 2 egress (mean 68.42 Mbps)
- Flow 3 ingress (mean 35.77 Mbps)
- Flow 3 egress (mean 35.77 Mbps)

![Graph 2: Per-packet one-way delay (ms)](chart2)
- Flow 1 (95th percentile 200.92 ms)
- Flow 2 (95th percentile 161.16 ms)
- Flow 3 (95th percentile 144.18 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2020-02-18 15:29:00
End at: 2020-02-18 15:29:30
Local clock offset: -0.154 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2020-02-18 21:33:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 310.32 Mbit/s
  95th percentile per-packet one-way delay: 134.740 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 183.61 Mbit/s
  95th percentile per-packet one-way delay: 134.487 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 157.71 Mbit/s
  95th percentile per-packet one-way delay: 135.422 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 68.73 Mbit/s
  95th percentile per-packet one-way delay: 133.244 ms
  Loss rate: 0.01%
Run 1: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 183.61 Mbit/s)**
- **Flow 1 egress (mean 183.61 Mbit/s)**
- **Flow 2 ingress (mean 157.71 Mbit/s)**
- **Flow 2 egress (mean 157.71 Mbit/s)**
- **Flow 3 ingress (mean 68.73 Mbit/s)**
- **Flow 3 egress (mean 68.73 Mbit/s)**

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

- **Flow 1 (95th percentile 134.49 ms)**
- **Flow 2 (95th percentile 135.42 ms)**
- **Flow 3 (95th percentile 133.24 ms)**
Run 2: Statistics of PCC-Vivace

Start at: 2020-02-18 16:11:40
End at: 2020-02-18 16:12:10
Local clock offset: -0.066 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2020-02-18 21:34:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 342.91 Mbit/s
  95th percentile per-packet one-way delay: 135.131 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 191.66 Mbit/s
  95th percentile per-packet one-way delay: 134.751 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 169.75 Mbit/s
  95th percentile per-packet one-way delay: 135.221 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 116.53 Mbit/s
  95th percentile per-packet one-way delay: 135.697 ms
  Loss rate: 0.01%
Run 2: Report of PCC-Vivace — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 191.67 Mbps)
- Flow 1 egress (mean 191.66 Mbps)
- Flow 2 ingress (mean 169.75 Mbps)
- Flow 2 egress (mean 169.75 Mbps)
- Flow 3 ingress (mean 116.52 Mbps)
- Flow 3 egress (mean 116.53 Mbps)

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

- Flow 1 (95th percentile 134.75 ms)
- Flow 2 (95th percentile 135.22 ms)
- Flow 3 (95th percentile 135.70 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2020-02-18 16:53:30
End at: 2020-02-18 16:54:00
Local clock offset: -0.064 ms
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2020-02-18 21:34:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.11 Mbit/s
95th percentile per-packet one-way delay: 135.488 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.98 Mbit/s
95th percentile per-packet one-way delay: 135.475 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 166.36 Mbit/s
95th percentile per-packet one-way delay: 135.322 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.87 Mbit/s
95th percentile per-packet one-way delay: 142.825 ms
Loss rate: 0.00%
Run 3: Report of PCC-Vivace — Data Link

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

Legend:
- Flow 1 ingress (mean 207.97 Mbit/s)
- Flow 1 egress (mean 207.98 Mbit/s)
- Flow 2 ingress (mean 166.36 Mbit/s)
- Flow 2 egress (mean 166.36 Mbit/s)
- Flow 3 ingress (mean 113.87 Mbit/s)
- Flow 3 egress (mean 113.87 Mbit/s)
Run 4: Statistics of PCC-Vivace

Start at: 2020-02-18 17:35:23
End at: 2020-02-18 17:35:53
Local clock offset: -0.091 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2020-02-18 21:34:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.97 Mbit/s
95th percentile per-packet one-way delay: 136.713 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 204.23 Mbit/s
95th percentile per-packet one-way delay: 137.319 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 167.22 Mbit/s
95th percentile per-packet one-way delay: 135.993 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 114.13 Mbit/s
95th percentile per-packet one-way delay: 139.685 ms
Loss rate: 0.02%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2020-02-18 18:17:22
End at: 2020-02-18 18:17:52
Local clock offset: -0.14 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2020-02-18 21:34:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 332.71 Mbit/s
  95th percentile per-packet one-way delay: 134.018 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 198.89 Mbit/s
  95th percentile per-packet one-way delay: 133.094 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 168.76 Mbit/s
  95th percentile per-packet one-way delay: 133.608 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 65.16 Mbit/s
  95th percentile per-packet one-way delay: 134.280 ms
  Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link

![Data Link Graph]

Flow 1 ingress (mean 198.88 Mbit/s)
Flow 1 egress (mean 198.89 Mbit/s)
Flow 2 ingress (mean 168.70 Mbit/s)
Flow 2 egress (mean 168.76 Mbit/s)
Flow 3 ingress (mean 65.14 Mbit/s)
Flow 3 egress (mean 65.16 Mbit/s)

![Delay Graph]

Flow 1 (95th percentile 133.09 ms)
Flow 2 (95th percentile 133.61 ms)
Flow 3 (95th percentile 134.28 ms)
Run 1: Statistics of WebRTC media

Start at: 2020-02-18 15:34:45
End at: 2020-02-18 15:35:15
Local clock offset: 0.171 ms
Remote clock offset: -0.109 ms
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2020-02-18 16:17:33
End at: 2020-02-18 16:18:03
Local clock offset: 0.259 ms
Remote clock offset: 0.015 ms
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2020-02-18 16:59:15
End at: 2020-02-18 16:59:45
Local clock offset: 0.269 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2020-02-18 21:34:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.12 Mbit/s
  95th percentile per-packet one-way delay: 134.939 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.56 Mbit/s
  95th percentile per-packet one-way delay: 134.952 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.79 Mbit/s
  95th percentile per-packet one-way delay: 134.965 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.04 Mbit/s
  95th percentile per-packet one-way delay: 134.354 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2020-02-18 17:41:18
End at: 2020-02-18 17:41:48
Local clock offset: -0.082 ms
Remote clock offset: -0.103 ms
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2020-02-18 18:23:14
End at: 2020-02-18 18:23:44
Local clock offset: 0.209 ms
Remote clock offset: -0.061 ms
Run 5: Report of WebRTC media — Data Link

[Graph showing throughput and packet round-trip delay vs time for different flows and their ingress and egress mean bitrates.]

[Graph showing packet round-trip delay vs time for different flows and their respective 95th percentile values.]