Pantheon Report

Generated at 2020-04-17 04:12:57 (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 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ de42328552b3776a75a932a94dfafdf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7e8e176a32d4519
third_party/fillp-sheep @ 0e5b722943babc2db0902c64fcd45e12e923f9
third_party/genericCc @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4a9d58d38dc4dfe0ecdfbf90c077e64
third_party/libutp @ b3ae65b942e2826f2b179eaab4a906ce6b7fc3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca496
third_party/muses_dtree @ 387225f7b5f61d9e92d708a8869fbb804eb302
third_party/pantheon-tunnel @ f8663f58d27af9242717625ee3a354cc2e802bd
third_party/pcc @ 1afcf958fa0d66d18b623c091a55f3ec8724981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
Msender/src/buffer.h
Msender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92e4eb24f974ab
third_party/proto-quic @ 77961fa18273a86b42f1bc843ebc978f3ce4f42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3db
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 3662e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE 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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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
</tr>
<tr>
<td>TCP BBR</td>
<td>5</td>
<td>581.43</td>
<td>524.04</td>
<td>385.05</td>
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<td>Copa</td>
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<td>283.48</td>
<td>244.96</td>
<td>188.23</td>
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<td>TCP Cubic</td>
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<td>300.21</td>
<td>209.73</td>
<td>40.18</td>
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<td>329.02</td>
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<td>0.09</td>
<td>0.05</td>
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Run 1: Statistics of TCP BBR

Start at: 2020-04-16 22:08:04
End at: 2020-04-16 22:08:34
Local clock offset: -0.196 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2020-04-17 01:51:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 942.23 Mbit/s
95th percentile per-packet one-way delay: 240.759 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 494.12 Mbit/s
95th percentile per-packet one-way delay: 225.880 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 466.60 Mbit/s
95th percentile per-packet one-way delay: 263.750 ms
Loss rate: 3.55%
-- Flow 3:
Average throughput: 415.09 Mbit/s
95th percentile per-packet one-way delay: 215.094 ms
Loss rate: 0.23%
Run 1: Report of TCP BBR — Data Link

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

![Graph 2: Packet delay vs Time](image)
Run 2: Statistics of TCP BBR

Start at: 2020-04-16 22:51:15
End at: 2020-04-16 22:51:45
Local clock offset: -0.228 ms
Remote clock offset: -0.61 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1222.06 Mbit/s
  95th percentile per-packet one-way delay: 249.910 ms
  Loss rate: 8.62%
-- Flow 1:
  Average throughput: 692.69 Mbit/s
  95th percentile per-packet one-way delay: 245.773 ms
  Loss rate: 9.01%
-- Flow 2:
  Average throughput: 607.00 Mbit/s
  95th percentile per-packet one-way delay: 254.107 ms
  Loss rate: 9.92%
-- Flow 3:
  Average throughput: 375.74 Mbit/s
  95th percentile per-packet one-way delay: 254.939 ms
  Loss rate: 1.68%
Run 2: Report of TCP BBR — Data Link

![Graph 1: Throughput over Time](image1)
- **Flow 1 Ingress** (mean 761.27 Mb/s)
- **Flow 1 Egress** (mean 692.69 Mb/s)
- **Flow 2 Ingress** (mean 673.92 Mb/s)
- **Flow 2 Egress** (mean 607.00 Mb/s)
- **Flow 3 Ingress** (mean 352.20 Mb/s)
- **Flow 3 Egress** (mean 375.74 Mb/s)

![Graph 2: Packet Delay over Time](image2)
- **Flow 1** (95th percentile 245.77 ms)
- **Flow 2** (95th percentile 254.11 ms)
- **Flow 3** (95th percentile 254.94 ms)
Run 3: Statistics of TCP BBR

Start at: 2020-04-16 23:35:00
End at: 2020-04-16 23:35:30
Local clock offset: -0.085 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics

-- Total of 3 flows:
Average throughput: 1154.35 Mbit/s
95th percentile per-packet one-way delay: 252.683 ms
Loss rate: 7.73%

-- Flow 1:
Average throughput: 616.54 Mbit/s
95th percentile per-packet one-way delay: 250.654 ms
Loss rate: 6.69%

-- Flow 2:
Average throughput: 618.41 Mbit/s
95th percentile per-packet one-way delay: 234.055 ms
Loss rate: 7.54%

-- Flow 3:
Average throughput: 381.42 Mbit/s
95th percentile per-packet one-way delay: 295.562 ms
Loss rate: 13.04%
Run 3: Report of TCP BBR — Data Link

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

Start at: 2020-04-17 00:19:11
End at: 2020-04-17 00:19:41
Local clock offset: -0.084 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1007.39 Mbit/s
95th percentile per-packet one-way delay: 264.682 ms
Loss rate: 7.45%
-- Flow 1:
Average throughput: 599.40 Mbit/s
95th percentile per-packet one-way delay: 267.584 ms
Loss rate: 9.70%
-- Flow 2:
Average throughput: 429.30 Mbit/s
95th percentile per-packet one-way delay: 227.810 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 367.45 Mbit/s
95th percentile per-packet one-way delay: 284.422 ms
Loss rate: 7.29%
Run 4: Report of TCP BBR — Data Link

![Graph of Throughput and Delay](chart.png)
Run 5: Statistics of TCP BBR

Start at: 2020-04-17 01:03:01
End at: 2020-04-17 01:03:31
Local clock offset: -0.093 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 964.80 Mbit/s
95th percentile per-packet one-way delay: 263.005 ms
Loss rate: 5.43%
-- Flow 1:
Average throughput: 504.41 Mbit/s
95th percentile per-packet one-way delay: 252.712 ms
Loss rate: 2.97%
-- Flow 2:
Average throughput: 498.90 Mbit/s
95th percentile per-packet one-way delay: 276.579 ms
Loss rate: 9.72%
-- Flow 3:
Average throughput: 385.57 Mbit/s
95th percentile per-packet one-way delay: 250.055 ms
Loss rate: 3.17%
Run 5: Report of TCP BBR — Data Link

![Graph of Throughput vs Time](image)

- Flow 1 ingress (mean 519.79 Mbit/s)
- Flow 1 egress (mean 504.41 Mbit/s)
- Flow 2 ingress (mean 552.51 Mbit/s)
- Flow 2 egress (mean 498.90 Mbit/s)
- Flow 3 ingress (mean 396.18 Mbit/s)
- Flow 3 egress (mean 385.57 Mbit/s)

![Graph of Per-Packet One-Way Delay vs Time](image)

- Flow 1 (95th percentile 252.71 ms)
- Flow 2 (95th percentile 276.58 ms)
- Flow 3 (95th percentile 250.06 ms)
Run 1: Statistics of Copa

Start at: 2020-04-16 21:53:20
End at: 2020-04-16 21:53:50
Local clock offset: 0.118 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 544.74 Mbit/s
95th percentile per-packet one-way delay: 210.741 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 305.61 Mbit/s
95th percentile per-packet one-way delay: 219.210 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 262.66 Mbit/s
95th percentile per-packet one-way delay: 209.662 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 192.45 Mbit/s
95th percentile per-packet one-way delay: 172.539 ms
Loss rate: 0.00%
Run 1: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 305.87 Mbit/s)
- **Flow 1 egress** (mean 305.61 Mbit/s)
- **Flow 2 ingress** (mean 263.37 Mbit/s)
- **Flow 2 egress** (mean 262.66 Mbit/s)
- **Flow 3 ingress** (mean 192.45 Mbit/s)
- **Flow 3 egress** (mean 192.45 Mbit/s)

Per-packet one-way delay (ms):
- **Flow 1** (95th percentile 219.21 ms)
- **Flow 2** (95th percentile 209.66 ms)
- **Flow 3** (95th percentile 172.54 ms)
Run 2: Statistics of Copa

Start at: 2020-04-16 22:36:45
End at: 2020-04-16 22:37:15
Local clock offset: -0.142 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 503.98 Mbit/s
95th percentile per-packet one-way delay: 194.950 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 273.65 Mbit/s
95th percentile per-packet one-way delay: 192.490 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 252.57 Mbit/s
95th percentile per-packet one-way delay: 199.548 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 186.99 Mbit/s
95th percentile per-packet one-way delay: 177.907 ms
Loss rate: 0.40%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2020-04-16 23:20:33
End at: 2020-04-16 23:21:03
Local clock offset: -0.171 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2020-04-17 01:57:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.09 Mbit/s
95th percentile per-packet one-way delay: 246.220 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 288.64 Mbit/s
95th percentile per-packet one-way delay: 214.331 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 241.65 Mbit/s
95th percentile per-packet one-way delay: 290.344 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 203.34 Mbit/s
95th percentile per-packet one-way delay: 247.168 ms
Loss rate: 0.26%
Run 3: Report of Copa — Data Link

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

- Flow 1 ingress (mean 288.79 Mbit/s)
- Flow 1 egress (mean 288.64 Mbit/s)
- Flow 2 ingress (mean 243.88 Mbit/s)
- Flow 2 egress (mean 241.05 Mbit/s)
- Flow 3 ingress (mean 203.90 Mbit/s)
- Flow 3 egress (mean 203.34 Mbit/s)

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

- Flow 1 (95th percentile 214.33 ms)
- Flow 2 (95th percentile 290.34 ms)
- Flow 3 (95th percentile 247.17 ms)
Run 4: Statistics of Copa

Start at: 2020-04-17 00:04:39
End at: 2020-04-17 00:05:09
Local clock offset: -0.064 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2020-04-17 02:08:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 478.86 Mbit/s
95th percentile per-packet one-way delay: 208.526 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 287.04 Mbit/s
95th percentile per-packet one-way delay: 204.022 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 196.15 Mbit/s
95th percentile per-packet one-way delay: 236.156 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 184.40 Mbit/s
95th percentile per-packet one-way delay: 185.812 ms
Loss rate: 0.38%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2020-04-17 00:48:26
End at: 2020-04-17 00:48:56
Local clock offset: -0.08 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 501.07 Mbit/s
95th percentile per-packet one-way delay: 184.339 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 262.44 Mbit/s
95th percentile per-packet one-way delay: 174.722 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 271.75 Mbit/s
95th percentile per-packet one-way delay: 195.610 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 173.95 Mbit/s
95th percentile per-packet one-way delay: 168.967 ms
Loss rate: 0.01%
Run 5: Report of Copa — Data Link

![Throughput Graph]

![Delay Graph]

Flow 1 ingress (mean 262.57 Mbit/s)  |  Flow 1 egress (mean 262.44 Mbit/s)
Flow 2 ingress (mean 271.75 Mbit/s)  |  Flow 2 egress (mean 271.75 Mbit/s)
Flow 3 ingress (mean 173.96 Mbit/s)  |  Flow 3 egress (mean 173.95 Mbit/s)

Flow 1 (95th percentile 174.72 ms)  |  Flow 2 (95th percentile 195.61 ms)  |  Flow 3 (95th percentile 168.97 ms)
Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 21:40:44
End at: 2020-04-16 21:41:14
Local clock offset: 0.091 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 723.22 Mbit/s
95th percentile per-packet one-way delay: 229.551 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 541.47 Mbit/s
95th percentile per-packet one-way delay: 231.302 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 250.14 Mbit/s
95th percentile per-packet one-way delay: 161.011 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 45.21 Mbit/s
95th percentile per-packet one-way delay: 131.047 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 544.88 Mbit/s)
- Flow 1 egress (mean 541.47 Mbit/s)
- Flow 2 ingress (mean 250.23 Mbit/s)
- Flow 2 egress (mean 250.14 Mbit/s)
- Flow 3 ingress (mean 45.21 Mbit/s)
- Flow 3 egress (mean 45.21 Mbit/s)

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

- Flow 1 (95th percentile 231.30 ms)
- Flow 2 (95th percentile 161.01 ms)
- Flow 3 (95th percentile 131.03 ms)
Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 22:24:22
End at: 2020-04-16 22:24:52
Local clock offset: -0.018 ms
Remote clock offset: -0.204 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 415.94 Mbit/s
  95th percentile per-packet one-way delay: 178.217 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 289.40 Mbit/s
  95th percentile per-packet one-way delay: 178.635 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 168.08 Mbit/s
  95th percentile per-packet one-way delay: 181.946 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 43.87 Mbit/s
  95th percentile per-packet one-way delay: 132.247 ms
  Loss rate: 0.00%
Run 2: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress** (mean 289.70 Mbit/s)
- **Flow 1 egress** (mean 289.40 Mbit/s)
- **Flow 2 ingress** (mean 169.26 Mbit/s)
- **Flow 2 egress** (mean 168.08 Mbit/s)
- **Flow 3 ingress** (mean 43.87 Mbit/s)
- **Flow 3 egress** (mean 43.87 Mbit/s)

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

- **Flow 1** (95th percentile 178.63 ms)
- **Flow 2** (95th percentile 181.95 ms)
- **Flow 3** (95th percentile 132.25 ms)
Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 23:07:59
End at: 2020-04-16 23:08:29
Local clock offset: -0.507 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.73 Mbit/s
95th percentile per-packet one-way delay: 153.211 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 114.24 Mbit/s
95th percentile per-packet one-way delay: 132.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.40 Mbit/s
95th percentile per-packet one-way delay: 168.068 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 131.760 ms
Loss rate: 0.00%
Run 3: Report of TCP Cubic — Data Link

![Graph of throughput and delay over time for different flows.](image1)

- Flow 1 ingest (mean 114.24 Mbit/s)
- Flow 1 egress (mean 114.24 Mbit/s)
- Flow 2 ingest (mean 168.96 Mbit/s)
- Flow 2 egress (mean 167.40 Mbit/s)
- Flow 3 ingest (mean 44.91 Mbit/s)
- Flow 3 egress (mean 44.91 Mbit/s)

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

- Flow 1 (95th percentile 132.17 ms)
- Flow 2 (95th percentile 168.07 ms)
- Flow 3 (95th percentile 131.76 ms)
Run 4: Statistics of TCP Cubic

Start at: 2020-04-16 23:51:57
End at: 2020-04-16 23:52:27
Local clock offset: -0.068 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 485.12 Mbit/s
95th percentile per-packet one-way delay: 238.158 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 281.30 Mbit/s
95th percentile per-packet one-way delay: 233.973 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 294.67 Mbit/s
95th percentile per-packet one-way delay: 252.192 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 132.141 ms
Loss rate: 0.01%
Run 4: Report of TCP Cubic — Data Link

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

- **Flow 1**: Ingress (mean 283.34 Mbit/s), Egress (mean 281.30 Mbit/s)
- **Flow 2**: Ingress (mean 295.88 Mbit/s), Egress (mean 294.67 Mbit/s)
- **Flow 3**: Ingress (mean 22.56 Mbit/s), Egress (mean 22.56 Mbit/s)

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

- **Flow 1**: 95th percentile 233.97 ms
- **Flow 2**: 95th percentile 252.19 ms
- **Flow 3**: 95th percentile 132.14 ms
Run 5: Statistics of TCP Cubic

Start at: 2020-04-17 00:35:23
End at: 2020-04-17 00:35:53
Local clock offset: -0.083 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.52 Mbit/s
95th percentile per-packet one-way delay: 220.775 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 274.62 Mbit/s
95th percentile per-packet one-way delay: 231.077 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 168.34 Mbit/s
95th percentile per-packet one-way delay: 159.898 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 132.376 ms
Loss rate: 0.00%
Run 5: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 274.69 Mbit/s)
- Flow 1 egress (mean 274.62 Mbit/s)
- Flow 2 ingress (mean 169.90 Mbit/s)
- Flow 2 egress (mean 168.34 Mbit/s)
- Flow 3 ingress (mean 44.34 Mbit/s)
- Flow 3 egress (mean 44.34 Mbit/s)

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

- Flow 1 (95th percentile 231.08 ms)
- Flow 2 (95th percentile 159.90 ms)
- Flow 3 (95th percentile 132.38 ms)
Run 1: Statistics of FillP

Start at: 2020-04-16 22:17:15
End at: 2020-04-16 22:17:45
Local clock offset: 0.155 ms
Remote clock offset: -0.208 ms

# Below is generated by plot.py at 2020-04-17 02:09:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.15 Mbit/s
95th percentile per-packet one-way delay: 170.251 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 131.51 Mbit/s
95th percentile per-packet one-way delay: 195.324 ms
Loss rate: 1.65%
-- Flow 2:
Average throughput: 311.28 Mbit/s
95th percentile per-packet one-way delay: 135.774 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 246.15 Mbit/s
95th percentile per-packet one-way delay: 135.426 ms
Loss rate: 0.00%
Run 1: Report of FillP — Data Link

![Graph showing network throughput over time]

![Graph showing packet latency over time]

- Flow 1 ingress (mean 133.71 Mbit/s)
- Flow 1 egress (mean 131.51 Mbit/s)
- Flow 2 ingress (mean 311.27 Mbit/s)
- Flow 2 egress (mean 311.28 Mbit/s)
- Flow 3 ingress (mean 246.14 Mbit/s)
- Flow 3 egress (mean 246.15 Mbit/s)
Run 2: Statistics of FILLP

Start at: 2020-04-16 23:00:38
End at: 2020-04-16 23:01:08
Local clock offset: -0.149 ms
Remote clock offset: -0.502 ms

# Below is generated by plot.py at 2020-04-17 02:16:46
# Datalink statistics
# Total of 3 flows:
Average throughput: 816.68 Mbit/s
95th percentile per-packet one-way delay: 168.269 ms
Loss rate: 0.27%

-- Flow 1:
Average throughput: 483.10 Mbit/s
95th percentile per-packet one-way delay: 176.935 ms
Loss rate: 0.46%

-- Flow 2:
Average throughput: 361.51 Mbit/s
95th percentile per-packet one-way delay: 141.042 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 280.51 Mbit/s
95th percentile per-packet one-way delay: 137.391 ms
Loss rate: 0.00%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2020-04-16 23:44:40
End at: 2020-04-16 23:45:10
Local clock offset: 0.228 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2020-04-17 02:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 750.57 Mbit/s
95th percentile per-packet one-way delay: 150.380 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 474.11 Mbit/s
95th percentile per-packet one-way delay: 169.831 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 338.70 Mbit/s
95th percentile per-packet one-way delay: 137.422 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 155.02 Mbit/s
95th percentile per-packet one-way delay: 134.585 ms
Loss rate: 0.00%
Run 3: Report of FillP — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 475.85 Mbps)**
- **Flow 1 egress (mean 474.11 Mbps)**
- **Flow 2 ingress (mean 338.73 Mbps)**
- **Flow 2 egress (mean 338.70 Mbps)**
- **Flow 3 ingress (mean 155.02 Mbps)**
- **Flow 3 egress (mean 155.02 Mbps)**

**Packet Loss**

- **Flow 1 (95th percentile 169.83 ms)**
- **Flow 2 (95th percentile 137.42 ms)**
- **Flow 3 (95th percentile 134.59 ms)**
Run 4: Statistics of FillP

Start at: 2020-04-17 00:28:25
End at: 2020-04-17 00:28:55
Local clock offset: -0.045 ms
Remote clock offset: -0.428 ms

# Below is generated by plot.py at 2020-04-17 02:18:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 344.87 Mbit/s
95th percentile per-packet one-way delay: 138.337 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 138.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 344.84 Mbit/s
95th percentile per-packet one-way delay: 138.500 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 219.13 Mbit/s
95th percentile per-packet one-way delay: 137.904 ms
Loss rate: 0.07%
Run 4: Report of FillP — Data Link

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

![Graph 2: Per-packet one-way delay (ms) vs Time (s)]
Run 5: Statistics of FillP

Start at: 2020-04-17 01:12:24
End at: 2020-04-17 01:12:54
Local clock offset: 0.219 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2020-04-17 02:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 774.82 Mbit/s
95th percentile per-packet one-way delay: 174.916 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 513.98 Mbit/s
95th percentile per-packet one-way delay: 182.848 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 288.76 Mbit/s
95th percentile per-packet one-way delay: 142.521 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 208.31 Mbit/s
95th percentile per-packet one-way delay: 133.153 ms
Loss rate: 0.00%
Run 5: Report of FillP — Data Link

![Graph showing throughput and delay over time for different flows. The graphs indicate varying levels of throughput and delay, with different lines representing different data flows. The legend includes details about the mean values for ingress and egress data flows.](image-url)
Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 21:47:54
End at: 2020-04-16 21:48:24
Local clock offset: 0.067 ms
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2020-04-17 02:21:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.43 Mbit/s
95th percentile per-packet one-way delay: 133.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.75 Mbit/s
95th percentile per-packet one-way delay: 137.060 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 275.13 Mbit/s
95th percentile per-packet one-way delay: 133.533 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 211.11 Mbit/s
95th percentile per-packet one-way delay: 134.405 ms
Loss rate: 0.00%
Run 1: Report of FillP-Sheep — Data Link

![Graph of Throughput vs Time for different flows](image1)

![Graph of Percentile Delay vs Time for different flows](image2)
Run 2: Statistics of FILLP-Sheep

End at: 2020-04-16 22:31:53
Local clock offset: -0.084 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2020-04-17 02:21:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 325.68 Mbit/s
  95th percentile per-packet one-way delay: 135.736 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 43.14 Mbit/s
  95th percentile per-packet one-way delay: 136.572 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 317.87 Mbit/s
  95th percentile per-packet one-way delay: 135.726 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 215.70 Mbit/s
  95th percentile per-packet one-way delay: 135.066 ms
  Loss rate: 0.00%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 23:14:50
End at: 2020-04-16 23:15:20
Local clock offset: -0.187 ms
Remote clock offset: -0.448 ms

# Below is generated by plot.py at 2020-04-17 02:21:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 485.19 Mbit/s
  95th percentile per-packet one-way delay: 168.010 ms
  Loss rate: 0.80%
-- Flow 1:
  Average throughput: 203.11 Mbit/s
  95th percentile per-packet one-way delay: 193.115 ms
  Loss rate: 1.89%
-- Flow 2:
  Average throughput: 306.60 Mbit/s
  95th percentile per-packet one-way delay: 134.579 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 238.75 Mbit/s
  95th percentile per-packet one-way delay: 135.946 ms
  Loss rate: 0.02%
Run 3: Report of FillP-Sheep — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 207.05 Mbps)
- Flow 1 egress (mean 203.11 Mbps)
- Flow 2 ingress (mean 306.60 Mbps)
- Flow 2 egress (mean 306.60 Mbps)
- Flow 3 ingress (mean 238.77 Mbps)
- Flow 3 egress (mean 238.75 Mbps)

Packet delay (ms):

- Flow 1 (95th percentile 193.12 ms)
- Flow 2 (95th percentile 134.58 ms)
- Flow 3 (95th percentile 135.95 ms)
Run 4: Statistics of FillP-Sheep

Start at: 2020-04-16 23:59:02
End at: 2020-04-16 23:59:32
Local clock offset: 0.209 ms
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2020-04-17 02:21:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 311.92 Mbit/s
  95th percentile per-packet one-way delay: 135.367 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 43.65 Mbit/s
  95th percentile per-packet one-way delay: 136.766 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 305.87 Mbit/s
  95th percentile per-packet one-way delay: 135.482 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 195.04 Mbit/s
  95th percentile per-packet one-way delay: 132.326 ms
  Loss rate: 0.05%
Run 4: Report of FillP-Sheep — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 43.65 Mbit/s)
- **Flow 1 egress** (mean 43.65 Mbit/s)
- **Flow 2 ingress** (mean 305.90 Mbit/s)
- **Flow 2 egress** (mean 305.87 Mbit/s)
- **Flow 3 ingress** (mean 195.15 Mbit/s)
- **Flow 3 egress** (mean 195.04 Mbit/s)

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

- **Flow 1** (95th percentile 136.77 ms)
- **Flow 2** (95th percentile 135.48 ms)
- **Flow 3** (95th percentile 132.33 ms)
Run 5: Statistics of FillP-Sheep

Start at: 2020-04-17 00:42:26
End at: 2020-04-17 00:42:56
Local clock offset: -0.083 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2020-04-17 02:28:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 747.65 Mbit/s
  95th percentile per-packet one-way delay: 168.804 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 478.88 Mbit/s
  95th percentile per-packet one-way delay: 175.550 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 298.65 Mbit/s
  95th percentile per-packet one-way delay: 136.027 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 211.70 Mbit/s
  95th percentile per-packet one-way delay: 135.202 ms
  Loss rate: 0.00%
Run 5: Report of FillP-Sheep — Data Link
Run 1: Statistics of Indigo

Start at: 2020-04-16 21:42:46
End at: 2020-04-16 21:43:16
Local clock offset: 0.083 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2020-04-17 02:28:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 232.30 Mbit/s
  95th percentile per-packet one-way delay: 133.651 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 90.39 Mbit/s
  95th percentile per-packet one-way delay: 133.233 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 159.25 Mbit/s
  95th percentile per-packet one-way delay: 133.803 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 115.98 Mbit/s
  95th percentile per-packet one-way delay: 137.192 ms
  Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

![Graph of throughput vs. time for different flows]

![Graph of packet loss ratio vs. time for different flows]
Run 2: Statistics of Indigo

Start at: 2020-04-16 22:26:07
End at: 2020-04-16 22:26:37
Local clock offset: ~0.056 ms
Remote clock offset: ~0.169 ms

# Below is generated by plot.py at 2020-04-17 02:28:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.21 Mbit/s
95th percentile per-packet one-way delay: 134.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.82 Mbit/s
95th percentile per-packet one-way delay: 134.055 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.57 Mbit/s
95th percentile per-packet one-way delay: 133.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 143.30 Mbit/s
95th percentile per-packet one-way delay: 136.761 ms
Loss rate: 0.00%
Run 2: Report of Indigo — Data Link

![Graph of Throughput (Mbps)]

- **Flow 1 ingress** (mean 166.81 Mbps)
- **Flow 1 egress** (mean 166.82 Mbps)
- **Flow 2 ingress** (mean 150.56 Mbps)
- **Flow 2 egress** (mean 150.57 Mbps)
- **Flow 3 ingress** (mean 143.30 Mbps)
- **Flow 3 egress** (mean 143.30 Mbps)

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

- Flow 1 (95th percentile 134.06 ms)
- Flow 2 (95th percentile 133.92 ms)
- Flow 3 (95th percentile 136.76 ms)
Run 3: Statistics of Indigo

Start at: 2020-04-16 23:09:35
End at: 2020-04-16 23:10:05
Local clock offset: -0.092 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2020-04-17 02:28:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.71 Mbit/s
95th percentile per-packet one-way delay: 133.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.19 Mbit/s
95th percentile per-packet one-way delay: 132.269 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.03 Mbit/s
95th percentile per-packet one-way delay: 133.424 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 146.92 Mbit/s
95th percentile per-packet one-way delay: 134.877 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2020-04-16 23:53:47
End at: 2020-04-16 23:54:17
Local clock offset: -0.107 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-04-17 02:28:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.32 Mbit/s
95th percentile per-packet one-way delay: 135.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 152.64 Mbit/s
95th percentile per-packet one-way delay: 134.922 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 176.37 Mbit/s
95th percentile per-packet one-way delay: 135.678 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.95 Mbit/s
95th percentile per-packet one-way delay: 134.127 ms
Loss rate: 0.00%
Run 4: Report of Indigo — Data Link

Throughput graph:
- Flow 1 ingress (mean 152.64 Mbit/s)
- Flow 1 egress (mean 152.64 Mbit/s)
- Flow 2 ingress (mean 176.37 Mbit/s)
- Flow 2 egress (mean 176.37 Mbit/s)
- Flow 3 ingress (mean 113.95 Mbit/s)
- Flow 3 egress (mean 113.95 Mbit/s)

Delay graph:
- Flow 1 (95th percentile 134.92 ms)
- Flow 2 (95th percentile 135.68 ms)
- Flow 3 (95th percentile 134.13 ms)
Run 5: Statistics of Indigo

Start at: 2020-04-17 00:37:07
End at: 2020-04-17 00:37:37
Local clock offset: 0.288 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-04-17 02:28:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.61 Mbit/s
95th percentile per-packet one-way delay: 133.960 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 170.27 Mbit/s
95th percentile per-packet one-way delay: 133.757 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.21 Mbit/s
95th percentile per-packet one-way delay: 133.958 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.43 Mbit/s
95th percentile per-packet one-way delay: 135.188 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 22:15:10
End at: 2020-04-16 22:15:40
Local clock offset: 0.17 ms
Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2020-04-17 02:35:19
# Datalink statistics
  -- Total of 3 flows:
   Average throughput: 820.67 Mbit/s
   95th percentile per-packet one-way delay: 137.951 ms
   Loss rate: 0.00%
  -- Flow 1:
   Average throughput: 490.90 Mbit/s
   95th percentile per-packet one-way delay: 138.297 ms
   Loss rate: 0.00%
  -- Flow 2:
   Average throughput: 396.90 Mbit/s
   95th percentile per-packet one-way delay: 137.339 ms
   Loss rate: 0.00%
  -- Flow 3:
   Average throughput: 288.39 Mbit/s
   95th percentile per-packet one-way delay: 138.303 ms
   Loss rate: 0.00%
Run 1: Report of Indigo-MusesC3 — Data Link

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{run1.png}
\caption{Throughput and Delay plots for Run 1.}
\end{figure}
Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 22:58:35
End at: 2020-04-16 22:59:05
Local clock offset: -0.203 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2020-04-17 02:36:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 771.54 Mbit/s
  95th percentile per-packet one-way delay: 149.372 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 458.66 Mbit/s
  95th percentile per-packet one-way delay: 149.836 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 381.45 Mbit/s
  95th percentile per-packet one-way delay: 155.630 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 276.87 Mbit/s
  95th percentile per-packet one-way delay: 141.738 ms
  Loss rate: 0.20%
Run 2: Report of Indigo-MusesC3 — Data Link

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

Flow 1 (ingress mean 458.65 Mbit/s, egress mean 458.66 Mbit/s)
Flow 2 (ingress mean 381.38 Mbit/s, egress mean 381.45 Mbit/s)
Flow 3 (ingress mean 277.41 Mbit/s, egress mean 276.87 Mbit/s)

Flow 1 (95th percentile 149.84 ms), Flow 2 (95th percentile 155.63 ms), Flow 3 (95th percentile 141.74 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 23:42:37
End at: 2020-04-16 23:43:07
Local clock offset: 0.256 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-04-17 02:37:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 783.20 Mbit/s
95th percentile per-packet one-way delay: 176.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 460.25 Mbit/s
95th percentile per-packet one-way delay: 165.753 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 387.76 Mbit/s
95th percentile per-packet one-way delay: 191.076 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 290.53 Mbit/s
95th percentile per-packet one-way delay: 166.596 ms
Loss rate: 0.04%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2020-04-17 00:26:22
End at: 2020-04-17 00:26:52
Local clock offset: -0.051 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2020-04-17 02:41:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 780.44 Mbit/s
95th percentile per-packet one-way delay: 175.262 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 466.43 Mbit/s
95th percentile per-packet one-way delay: 176.103 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 391.02 Mbit/s
95th percentile per-packet one-way delay: 177.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 270.52 Mbit/s
95th percentile per-packet one-way delay: 135.161 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesC3 — Data Link

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

Throughput (Mbps):
- Flow 1 ingress (mean 466.59 Mbps)
- Flow 1 egress (mean 466.43 Mbps)
- Flow 2 ingress (mean 390.73 Mbps)
- Flow 2 egress (mean 391.02 Mbps)
- Flow 3 ingress (mean 270.57 Mbps)
- Flow 3 egress (mean 270.52 Mbps)

Per-packet one-way delay (ms):
- Flow 1 (95th percentile 176.10 ms)
- Flow 2 (95th percentile 177.28 ms)
- Flow 3 (95th percentile 135.16 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2020-04-17 01:10:21
End at: 2020-04-17 01:10:51
Local clock offset: 0.215 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2020-04-17 02:41:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 775.22 Mbit/s
  95th percentile per-packet one-way delay: 190.378 ms
  Loss rate: 0.07%
-- Flow 1:
  Average throughput: 472.01 Mbit/s
  95th percentile per-packet one-way delay: 169.605 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 366.22 Mbit/s
  95th percentile per-packet one-way delay: 224.573 ms
  Loss rate: 0.21%
-- Flow 3:
  Average throughput: 270.18 Mbit/s
  95th percentile per-packet one-way delay: 138.838 ms
  Loss rate: 0.06%
Run 5: Report of Indigo-MusesC3 — Data Link
Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 22:00:01
End at: 2020-04-16 22:00:31
Local clock offset: 0.142 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2020-04-17 02:41:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 719.48 Mbit/s
95th percentile per-packet one-way delay: 182.202 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 458.41 Mbit/s
95th percentile per-packet one-way delay: 165.197 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 367.15 Mbit/s
95th percentile per-packet one-way delay: 200.652 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 132.670 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesC5 — Data Link

![Throughput Graph]

Legend:
- Flow 1 ingress (mean 458.40 Mbit/s)
- Flow 1 egress (mean 458.41 Mbit/s)
- Flow 2 ingress (mean 367.20 Mbit/s)
- Flow 2 egress (mean 367.15 Mbit/s)
- Flow 3 ingress (mean 94.12 Mbit/s)
- Flow 3 egress (mean 94.21 Mbit/s)

![Delay Graph]

Legend:
- Flow 1 (95th percentile 165.20 ms)
- Flow 2 (95th percentile 200.65 ms)
- Flow 3 (95th percentile 132.67 ms)
Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 22:43:24
End at: 2020-04-16 22:43:54
Local clock offset: -0.206 ms
Remote clock offset: -0.548 ms

# Below is generated by plot.py at 2020-04-17 02:41:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.70 Mbit/s
95th percentile per-packet one-way delay: 221.200 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 398.61 Mbit/s
95th percentile per-packet one-way delay: 229.051 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 369.13 Mbit/s
95th percentile per-packet one-way delay: 159.924 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 100.34 Mbit/s
95th percentile per-packet one-way delay: 132.207 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesC5 — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 23:27:09
End at: 2020-04-16 23:27:39
Local clock offset: -0.156 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2020-04-17 02:42:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 697.18 Mbit/s
95th percentile per-packet one-way delay: 178.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 403.65 Mbit/s
95th percentile per-packet one-way delay: 184.298 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 419.64 Mbit/s
95th percentile per-packet one-way delay: 163.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 132.783 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesC5 — Data Link
Run 4: Statistics of Indigo-MusesC5

Start at: 2020-04-17 00:11:19
End at: 2020-04-17 00:11:49
Local clock offset: -0.077 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2020-04-17 02:47:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 636.54 Mbit/s
95th percentile per-packet one-way delay: 187.634 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 370.03 Mbit/s
95th percentile per-packet one-way delay: 182.567 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 361.23 Mbit/s
95th percentile per-packet one-way delay: 198.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.40 Mbit/s
95th percentile per-packet one-way delay: 136.237 ms
Loss rate: 0.06%
Run 4: Report of Indigo-MusesC5 — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 370.30 Mbps)
  - Flow 1 egress (mean 370.03 Mbps)
  - Flow 2 ingress (mean 361.23 Mbps)
  - Flow 2 egress (mean 361.23 Mbps)
  - Flow 3 ingress (mean 130.47 Mbps)
  - Flow 3 egress (mean 130.40 Mbps)

- **Per packet one-way delay (ms):**
  - Flow 1 (95th percentile 192.57 ms)
  - Flow 2 (95th percentile 198.28 ms)
  - Flow 3 (95th percentile 136.24 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2020-04-17 00:55:01
End at: 2020-04-17 00:55:31
Local clock offset: -0.146 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2020-04-17 02:48:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 689.01 Mbit/s
  95th percentile per-packet one-way delay: 179.056 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 423.09 Mbit/s
  95th percentile per-packet one-way delay: 180.877 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 356.57 Mbit/s
  95th percentile per-packet one-way delay: 178.000 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 141.92 Mbit/s
  95th percentile per-packet one-way delay: 132.734 ms
  Loss rate: 0.00%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 22:11:55
End at: 2020-04-16 22:12:25
Local clock offset: 0.115 ms
Remote clock offset: -0.558 ms

# Below is generated by plot.py at 2020-04-17 02:50:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 677.09 Mbit/s
95th percentile per-packet one-way delay: 139.508 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.41 Mbit/s
95th percentile per-packet one-way delay: 137.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 424.54 Mbit/s
95th percentile per-packet one-way delay: 142.010 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 131.160 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesD — Data Link

![Throughput Graph]

- **Flow 1 ingress (mean 384.40 Mbit/s)**
- **Flow 1 egress (mean 384.41 Mbit/s)**
- **Flow 2 ingress (mean 424.54 Mbit/s)**
- **Flow 2 egress (mean 424.54 Mbit/s)**
- **Flow 3 ingress (mean 90.46 Mbit/s)**
- **Flow 3 egress (mean 90.46 Mbit/s)**

![Delay Graph]

- **Flow 1 (95th percentile 137.38 ms)**
- **Flow 2 (95th percentile 142.01 ms)**
- **Flow 3 (95th percentile 131.16 ms)**
Run 2: Statistics of Indigo-MusesD

Local clock offset: -0.252 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2020-04-17 02:54:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 726.30 Mbit/s
95th percentile per-packet one-way delay: 148.119 ms
Loss rate: 0.05%

-- Flow 1:
Average throughput: 410.59 Mbit/s
95th percentile per-packet one-way delay: 149.608 ms
Loss rate: 0.06%

-- Flow 2:
Average throughput: 383.32 Mbit/s
95th percentile per-packet one-way delay: 147.966 ms
Loss rate: 0.03%

-- Flow 3:
Average throughput: 269.48 Mbit/s
95th percentile per-packet one-way delay: 139.002 ms
Loss rate: 0.00%
Run 2: Report of Indigo-MusesD — Data Link

![Graph 1](image1.png)

- **Flow 1 Ingress** (mean 410.80 Mbit/s)
- **Flow 1 Egress** (mean 410.59 Mbit/s)
- **Flow 2 Ingress** (mean 383.41 Mbit/s)
- **Flow 2 Egress** (mean 383.32 Mbit/s)
- **Flow 3 Ingress** (mean 269.48 Mbit/s)
- **Flow 3 Egress** (mean 269.48 Mbit/s)

![Graph 2](image2.png)

- **Flow 1 (95th percentile 149.61 ms)**
- **Flow 2 (95th percentile 147.97 ms)**
- **Flow 3 (95th percentile 139.00 ms)**

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Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 23:39:17
End at: 2020-04-16 23:39:47
Local clock offset: -0.133 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2020-04-17 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 749.29 Mbit/s
95th percentile per-packet one-way delay: 170.480 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 439.64 Mbit/s
95th percentile per-packet one-way delay: 181.323 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 376.28 Mbit/s
95th percentile per-packet one-way delay: 148.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 261.00 Mbit/s
95th percentile per-packet one-way delay: 140.181 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesD — Data Link

![Graph showing throughput and per-packet one-way delay over time for Flow 1, Flow 2, and Flow 3 ingress and egress, along with their respective mean data rates and 95th percentile delays.]
Run 4: Statistics of Indigo-MusesD

Start at: 2020-04-17 00:23:08
End at: 2020-04-17 00:23:38
Local clock offset: -0.115 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2020-04-17 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 640.39 Mbit/s
95th percentile per-packet one-way delay: 147.790 ms
Loss rate: 0.18%

-- Flow 1:
Average throughput: 400.84 Mbit/s
95th percentile per-packet one-way delay: 142.445 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 341.31 Mbit/s
95th percentile per-packet one-way delay: 158.819 ms
Loss rate: 0.53%

-- Flow 3:
Average throughput: 88.11 Mbit/s
95th percentile per-packet one-way delay: 132.946 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesD — Data Link
Run 5: Statistics of Indigo-MusesD

Start at: 2020-04-17 01:07:08
End at: 2020-04-17 01:07:38
Local clock offset: 0.268 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2020-04-17 02:55:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 616.63 Mbit/s
95th percentile per-packet one-way delay: 233.403 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 342.20 Mbit/s
95th percentile per-packet one-way delay: 259.527 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 389.28 Mbit/s
95th percentile per-packet one-way delay: 178.155 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 105.51 Mbit/s
95th percentile per-packet one-way delay: 132.707 ms
Loss rate: 0.00%
Run 5: Report of Indigo-MusesD — Data Link
Run 1: Statistics of Indigo-MusesT

Start at: 2020-04-16 22:18:57
End at: 2020-04-16 22:19:27
Local clock offset: -0.233 ms
Remote clock offset: 0.172 ms

# Below is generated by plot.py at 2020-04-17 02:57:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 862.11 Mbit/s
95th percentile per-packet one-way delay: 150.952 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 530.80 Mbit/s
95th percentile per-packet one-way delay: 151.173 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 418.97 Mbit/s
95th percentile per-packet one-way delay: 153.802 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 250.17 Mbit/s
95th percentile per-packet one-way delay: 140.473 ms
Loss rate: 0.00%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 530.78 Mbit/s)
- Flow 1 egress (mean 530.80 Mbit/s)
- Flow 2 ingress (mean 418.96 Mbit/s)
- Flow 2 egress (mean 418.97 Mbit/s)
- Flow 3 ingress (mean 249.87 Mbit/s)
- Flow 3 egress (mean 250.17 Mbit/s)

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

- Flow 1 (95th percentile 151.17 ms)
- Flow 2 (95th percentile 153.80 ms)
- Flow 3 (95th percentile 140.47 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2020-04-16 23:02:38
End at: 2020-04-16 23:03:08
Local clock offset: -0.168 ms
Remote clock offset: -0.507 ms

# Below is generated by plot.py at 2020-04-17 03:03:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 858.07 Mbit/s
  95th percentile per-packet one-way delay: 165.016 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 513.22 Mbit/s
  95th percentile per-packet one-way delay: 171.772 ms
  Loss rate: 0.23%
-- Flow 2:
  Average throughput: 423.48 Mbit/s
  95th percentile per-packet one-way delay: 157.114 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 258.67 Mbit/s
  95th percentile per-packet one-way delay: 138.452 ms
  Loss rate: 0.04%
Run 2: Report of Indigo-MusesT — Data Link

![Throughput Graph]

- **Flow 1 ingress (mean 514.36 Mbit/s)**
- **Flow 1 egress (mean 513.22 Mbit/s)**
- **Flow 2 ingress (mean 423.90 Mbit/s)**
- **Flow 2 egress (mean 423.48 Mbit/s)**
- **Flow 3 ingress (mean 258.78 Mbit/s)**
- **Flow 3 egress (mean 256.67 Mbit/s)**

![Per-packet one-way delay Graph]

- **Flow 1 (95th percentile 171.77 ms)**
- **Flow 2 (95th percentile 157.11 ms)**
- **Flow 3 (95th percentile 138.45 ms)**
Run 3: Statistics of Indigo-MusesT

Start at: 2020-04-16 23:46:37
End at: 2020-04-16 23:47:07
Local clock offset: -0.116 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 03:05:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 819.91 Mbit/s
95th percentile per-packet one-way delay: 217.714 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 495.07 Mbit/s
95th percentile per-packet one-way delay: 220.747 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 407.55 Mbit/s
95th percentile per-packet one-way delay: 215.757 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 258.54 Mbit/s
95th percentile per-packet one-way delay: 163.547 ms
Loss rate: 0.00%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2020-04-17 00:30:02
End at: 2020-04-17 00:30:32
Local clock offset: -0.068 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2020-04-17 03:05:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 787.07 Mbit/s
95th percentile per-packet one-way delay: 191.203 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 505.22 Mbit/s
95th percentile per-packet one-way delay: 200.059 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 411.09 Mbit/s
95th percentile per-packet one-way delay: 153.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 131.874 ms
Loss rate: 0.00%
Run 4: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 505.20 Mbps)
- Flow 1 egress (mean 505.22 Mbps)
- Flow 2 ingress (mean 411.11 Mbps)
- Flow 2 egress (mean 411.09 Mbps)
- Flow 3 ingress (mean 96.67 Mbps)
- Flow 3 egress (mean 96.67 Mbps)

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

- Flow 1 (95th percentile 200.06 ms)
- Flow 2 (95th percentile 153.56 ms)
- Flow 3 (95th percentile 131.87 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2020-04-17 01:14:23
End at: 2020-04-17 01:14:53
Local clock offset: -0.126 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 841.86 Mbit/s
95th percentile per-packet one-way delay: 207.192 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 518.53 Mbit/s
95th percentile per-packet one-way delay: 214.408 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 411.77 Mbit/s
95th percentile per-packet one-way delay: 181.674 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 241.61 Mbit/s
95th percentile per-packet one-way delay: 137.172 ms
Loss rate: 0.04%
Run 5: Report of Indigo-MusesT — Data Link
Run 1: Statistics of LEDBAT

Start at: 2020-04-16 21:37:30
End at: 2020-04-16 21:38:00
Local clock offset: 0.105 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.38 Mbit/s
95th percentile per-packet one-way delay: 132.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.47 Mbit/s
95th percentile per-packet one-way delay: 131.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 131.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 132.687 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 5.47 Mbit/s)
- Flow 1 egress (mean 5.47 Mbit/s)
- Flow 2 ingress (mean 3.57 Mbit/s)
- Flow 2 egress (mean 3.57 Mbit/s)
- Flow 3 ingress (mean 1.72 Mbit/s)
- Flow 3 egress (mean 1.72 Mbit/s)

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

- Flow 1 (95th percentile 131.81 ms)
- Flow 2 (95th percentile 131.28 ms)
- Flow 3 (95th percentile 132.69 ms)
Run 2: Statistics of LEDBAT

Start at: 2020-04-16 22:21:04
End at: 2020-04-16 22:21:34
Local clock offset: 0.098 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 8.32 Mbit/s
  95th percentile per-packet one-way delay: 132.954 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 5.38 Mbit/s
  95th percentile per-packet one-way delay: 133.096 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 3.56 Mbit/s
  95th percentile per-packet one-way delay: 132.795 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 1.74 Mbit/s
  95th percentile per-packet one-way delay: 131.284 ms
  Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2020-04-16 23:04:44
End at: 2020-04-16 23:05:14
Local clock offset: -0.5 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 133.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.45 Mbit/s
95th percentile per-packet one-way delay: 133.642 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 131.170 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 133.005 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

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Run 4: Statistics of LEDBAT

Start at: 2020-04-16 23:48:42
End at: 2020-04-16 23:49:12
Local clock offset: -0.102 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 132.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.50 Mbit/s
95th percentile per-packet one-way delay: 131.221 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 133.364 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 131.807 ms
Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2020-04-17 00:32:05
End at: 2020-04-17 00:32:35
Local clock offset: -0.412 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 133.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 134.114 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 133.103 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 133.188 ms
Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

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

Legend:
- Flow 1 ingress (mean 5.32 Mbit/s)
- Flow 1 egress (mean 5.32 Mbit/s)
- Flow 2 ingress (mean 3.56 Mbit/s)
- Flow 2 egress (mean 3.56 Mbit/s)
- Flow 3 ingress (mean 1.73 Mbit/s)
- Flow 3 egress (mean 1.73 Mbit/s)
Run 1: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 22:03:54
End at: 2020-04-16 22:04:24
Local clock offset: 0.134 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 696.97 Mbit/s
  95th percentile per-packet one-way delay: 155.738 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 401.59 Mbit/s
  95th percentile per-packet one-way delay: 156.388 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 349.21 Mbit/s
  95th percentile per-packet one-way delay: 156.755 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 198.63 Mbit/s
  95th percentile per-packet one-way delay: 134.268 ms
  Loss rate: 0.00%
Run 1: Report of Muses_DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 22:47:18
End at: 2020-04-16 22:47:48
Local clock offset: -0.256 ms
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 661.13 Mbit/s
95th percentile per-packet one-way delay: 136.920 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 377.09 Mbit/s
95th percentile per-packet one-way delay: 137.369 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 327.47 Mbit/s
95th percentile per-packet one-way delay: 135.737 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 208.35 Mbit/s
95th percentile per-packet one-way delay: 133.355 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTree — Data Link

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

Flow 1 ingress (mean 377.08 Mbit/s)
Flow 1 egress (mean 377.09 Mbit/s)
Flow 2 ingress (mean 327.54 Mbit/s)
Flow 2 egress (mean 327.47 Mbit/s)
Flow 3 ingress (mean 208.09 Mbit/s)
Flow 3 egress (mean 208.35 Mbit/s)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2020-04-16 23:31:05
End at: 2020-04-16 23:31:35
Local clock offset: -0.144 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2020-04-17 03:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.93 Mbit/s
95th percentile per-packet one-way delay: 147.559 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 132.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 457.99 Mbit/s
95th percentile per-packet one-way delay: 148.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 266.96 Mbit/s
95th percentile per-packet one-way delay: 138.737 ms
Loss rate: 0.07%
Run 3: Report of Muses, DecisionTree — Data Link

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

- **Flow 1 ingress (mean 0.43 Mbit/s)**
- **Flow 2 ingress (mean 457.99 Mbit/s)**
- **Flow 3 ingress (mean 267.28 Mbit/s)**
- **Flow 1 egress (mean 0.43 Mbit/s)**
- **Flow 2 egress (mean 457.99 Mbit/s)**
- **Flow 3 egress (mean 266.96 Mbit/s)**

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

- **Flow 1 (95th percentile 132.14 ms)**
- **Flow 2 (95th percentile 148.85 ms)**
- **Flow 3 (95th percentile 138.74 ms)**
Run 4: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 00:15:02
End at: 2020-04-17 00:15:32
Local clock offset: -0.101 ms
Remote clock offset: -0.419 ms

# Below is generated by plot.py at 2020-04-17 03:11:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 683.81 Mbit/s
95th percentile per-packet one-way delay: 162.955 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 400.21 Mbit/s
95th percentile per-packet one-way delay: 166.284 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 344.75 Mbit/s
95th percentile per-packet one-way delay: 147.972 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 174.50 Mbit/s
95th percentile per-packet one-way delay: 136.033 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecimalTree — Data Link
Run 5: Statistics of Muses\_DecisionTree

Start at: 2020-04-17 00:58:59
End at: 2020-04-17 00:59:29
Local clock offset: 0.207 ms
Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2020-04-17 03:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.07 Mbit/s
95th percentile per-packet one-way delay: 179.058 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 393.87 Mbit/s
95th percentile per-packet one-way delay: 174.834 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 315.91 Mbit/s
95th percentile per-packet one-way delay: 194.073 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 196.51 Mbit/s
95th percentile per-packet one-way delay: 134.384 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTree — Data Link

[Graph showing throughput and packet loss over time for different flows with specific mean speeds and 95th percentile delays]
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 21:38:50
End at: 2020-04-16 21:39:20
Local clock offset: 0.076 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2020-04-17 03:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 610.26 Mbit/s
95th percentile per-packet one-way delay: 201.810 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 321.52 Mbit/s
95th percentile per-packet one-way delay: 211.173 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 296.44 Mbit/s
95th percentile per-packet one-way delay: 190.337 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 221.97 Mbit/s
95th percentile per-packet one-way delay: 133.127 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

End at: 2020-04-16 22:22:54
Local clock offset: 0.023 ms
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2020-04-17 03:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 662.99 Mbit/s
95th percentile per-packet one-way delay: 190.538 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 378.97 Mbit/s
95th percentile per-packet one-way delay: 193.139 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 329.05 Mbit/s
95th percentile per-packet one-way delay: 192.125 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 208.07 Mbit/s
95th percentile per-packet one-way delay: 134.603 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeH0 — Data Link

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

**Throughput (Mb/s)**
- Flow 1 ingress (mean 379.22 Mb/s)
- Flow 1 egress (mean 378.97 Mb/s)
- Flow 2 ingress (mean 330.50 Mb/s)
- Flow 2 egress (mean 329.05 Mb/s)
- Flow 3 ingress (mean 208.07 Mb/s)
- Flow 3 egress (mean 208.07 Mb/s)

**Packet Loss (ms)**
- Flow 1 (95th percentile 193.14 ms)
- Flow 2 (95th percentile 192.12 ms)
- Flow 3 (95th percentile 134.60 ms)
Run 3: Statistics of Muses\_DecisionTreeHO

Start at: 2020-04-16 23:06:04
End at: 2020-04-16 23:06:34
Local clock offset: -0.15 ms
Remote clock offset: -0.454 ms

# Below is generated by plot.py at 2020-04-17 03:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 595.57 Mbit/s
95th percentile per-packet one-way delay: 220.936 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 382.86 Mbit/s
95th percentile per-packet one-way delay: 209.012 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 213.74 Mbit/s
95th percentile per-packet one-way delay: 234.668 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 224.29 Mbit/s
95th percentile per-packet one-way delay: 137.674 ms
Loss rate: 0.00%
Run 3: Report of Muses.DecisionTreeH0 — Data Link

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

- **Flow 1 Ingress (mean 384.56 Mbps)**
- **Flow 1 Egress (mean 382.86 Mbps)**
- **Flow 2 Ingress (mean 216.51 Mbps)**
- **Flow 2 Egress (mean 213.74 Mbps)**
- **Flow 3 Ingress (mean 222.80 Mbps)**
- **Flow 3 Egress (mean 224.29 Mbps)**

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

- **Flow 1 (95th percentile 209.01 ms)**
- **Flow 2 (95th percentile 234.67 ms)**
- **Flow 3 (95th percentile 137.67 ms)**
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-16 23:50:02
End at: 2020-04-16 23:50:32
Local clock offset: -0.152 ms
Remote clock offset: -0.444 ms

# Below is generated by plot.py at 2020-04-17 03:20:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.03 Mbit/s
95th percentile per-packet one-way delay: 217.957 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 283.34 Mbit/s
95th percentile per-packet one-way delay: 229.874 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 342.73 Mbit/s
95th percentile per-packet one-way delay: 146.173 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 234.52 Mbit/s
95th percentile per-packet one-way delay: 134.987 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

![Graph showing throughput and delay over time for different flows.](image-url)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2020-04-17 00:33:26
End at: 2020-04-17 00:33:56
Local clock offset: 0.267 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2020-04-17 03:21:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 626.00 Mbit/s
95th percentile per-packet one-way delay: 210.792 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 379.71 Mbit/s
95th percentile per-packet one-way delay: 218.304 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 255.76 Mbit/s
95th percentile per-packet one-way delay: 212.727 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 239.34 Mbit/s
95th percentile per-packet one-way delay: 144.827 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeH0 — Data Link

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

- **Throughput** (Mbps):
  - Flow 1 Ingress (mean 382.53 Mbps)
  - Flow 1 Egress (mean 379.71 Mbps)
  - Flow 2 Ingress (mean 235.83 Mbps)
  - Flow 2 Egress (mean 255.76 Mbps)
  - Flow 3 Ingress (mean 239.33 Mbps)
  - Flow 3 Egress (mean 239.34 Mbps)

- **Packet Delay** (ms):
  - Flow 1 (95th percentile 210.30 ms)
  - Flow 2 (95th percentile 212.73 ms)
  - Flow 3 (95th percentile 144.83 ms)
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 21:51:19  
End at: 2020-04-16 21:51:49  
Local clock offset: 0.111 ms  
Remote clock offset: -0.494 ms

# Below is generated by plot.py at 2020-04-17 03:23:50  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 708.41 Mbit/s
95th percentile per-packet one-way delay: 134.305 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 444.94 Mbit/s
95th percentile per-packet one-way delay: 135.085 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 320.89 Mbit/s
95th percentile per-packet one-way delay: 132.851 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 161.41 Mbit/s
95th percentile per-packet one-way delay: 132.594 ms
Loss rate: 0.00%
Run 1: Report of Muses_DecisionTreeR0 — Data Link

![Network Performance Graphs]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 444.93 Mbps)
  - Flow 1 egress (mean 444.94 Mbps)
  - Flow 2 ingress (mean 320.88 Mbps)
  - Flow 2 egress (mean 320.89 Mbps)
  - Flow 3 ingress (mean 161.41 Mbps)
  - Flow 3 egress (mean 161.41 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 135.09 ms)
  - Flow 2 (95th percentile 132.85 ms)
  - Flow 3 (95th percentile 132.59 ms)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 22:35:03
End at: 2020-04-16 22:35:33
Local clock offset: -0.153 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2020-04-17 03:23:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.31 Mbit/s
95th percentile per-packet one-way delay: 154.569 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 131.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 423.30 Mbit/s
95th percentile per-packet one-way delay: 152.948 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 328.50 Mbit/s
95th percentile per-packet one-way delay: 159.229 ms
Loss rate: 0.00%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

![Graphs showing network performance metrics for different flows over time.](image-url)
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-16 23:18:34
End at: 2020-04-16 23:19:04
Local clock offset: -0.17 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2020-04-17 03:28:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 674.96 Mbit/s
95th percentile per-packet one-way delay: 172.088 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 391.62 Mbit/s
95th percentile per-packet one-way delay: 179.956 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 353.82 Mbit/s
95th percentile per-packet one-way delay: 171.264 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 156.16 Mbit/s
95th percentile per-packet one-way delay: 133.851 ms
Loss rate: 0.00%
Run 3: Report of Muses DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2020-04-17 00:02:39
End at: 2020-04-17 00:03:09
Local clock offset: -0.108 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2020-04-17 03:29:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 670.17 Mbit/s
95th percentile per-packet one-way delay: 154.966 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 407.70 Mbit/s
95th percentile per-packet one-way delay: 160.908 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 306.38 Mbit/s
95th percentile per-packet one-way delay: 147.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 193.44 Mbit/s
95th percentile per-packet one-way delay: 137.112 ms
Loss rate: 0.00%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

- Throughput (Mbps)
- Time (s)
- Flow 1 ingress (mean 407.81 Mbps)
- Flow 1 egress (mean 407.70 Mbps)
- Flow 2 ingress (mean 306.38 Mbps)
- Flow 2 egress (mean 306.38 Mbps)
- Flow 3 ingress (mean 193.45 Mbps)
- Flow 3 egress (mean 193.44 Mbps)

- Per packet one way delay (ms)
- Time (s)
- Flow 1 (95th percentile 160.91 ms)
- Flow 2 (95th percentile 148.00 ms)
- Flow 3 (95th percentile 137.11 ms)
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2020-04-17 00:46:27
End at: 2020-04-17 00:46:57
Local clock offset: -0.084 ms
Remote clock offset: 0.292 ms

# Below is generated by plot.py at 2020-04-17 03:30:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 657.80 Mbit/s
  95th percentile per-packet one-way delay: 159.211 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 386.86 Mbit/s
  95th percentile per-packet one-way delay: 166.577 ms
  Loss rate: 0.23%
-- Flow 2:
  Average throughput: 311.86 Mbit/s
  95th percentile per-packet one-way delay: 139.046 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 209.91 Mbit/s
  95th percentile per-packet one-way delay: 134.980 ms
  Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

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

- Flow 1 ingress (mean 387.69 Mbit/s)
- Flow 1 egress (mean 386.86 Mbit/s)
- Flow 2 ingress (mean 311.82 Mbit/s)
- Flow 2 egress (mean 311.86 Mbit/s)
- Flow 3 ingress (mean 299.90 Mbit/s)
- Flow 3 egress (mean 209.91 Mbit/s)

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

- Flow 1 (95th percentile 166.58 ms)
- Flow 2 (95th percentile 139.05 ms)
- Flow 3 (95th percentile 134.90 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 21:45:50
End at: 2020-04-16 21:46:20
Local clock offset: 0.103 ms
Remote clock offset: -0.526 ms

# Below is generated by plot.py at 2020-04-17 03:39:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.69 Mbit/s
95th percentile per-packet one-way delay: 252.018 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 297.50 Mbit/s
95th percentile per-packet one-way delay: 243.883 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 291.87 Mbit/s
95th percentile per-packet one-way delay: 258.802 ms
Loss rate: 2.62%
-- Flow 3:
Average throughput: 224.23 Mbit/s
95th percentile per-packet one-way delay: 259.667 ms
Loss rate: 3.72%
Run 1: Report of PCC-Allegro — Data Link

![Graph showing throughput and packet delay over time for three different flow types.]

- Flow 1 ingress (mean 393.15 Mbit/s)
- Flow 1 egress (mean 297.50 Mbit/s)
- Flow 2 ingress (mean 299.75 Mbit/s)
- Flow 2 egress (mean 291.87 Mbit/s)
- Flow 3 ingress (mean 232.89 Mbit/s)
- Flow 3 egress (mean 224.23 Mbit/s)
Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 22:29:20
End at: 2020-04-16 22:29:50
Local clock offset: -0.115 ms
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2020-04-17 03:40:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 550.58 Mbit/s
95th percentile per-packet one-way delay: 259.210 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 282.64 Mbit/s
95th percentile per-packet one-way delay: 265.259 ms
Loss rate: 4.45%
-- Flow 2:
Average throughput: 286.38 Mbit/s
95th percentile per-packet one-way delay: 224.480 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 236.19 Mbit/s
95th percentile per-packet one-way delay: 247.414 ms
Loss rate: 1.77%
Run 2: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 295.82 Mbit/s)
- Flow 1 egress (mean 282.64 Mbit/s)
- Flow 2 ingress (mean 299.71 Mbit/s)
- Flow 2 egress (mean 286.38 Mbit/s)
- Flow 3 ingress (mean 240.44 Mbit/s)
- Flow 3 egress (mean 236.19 Mbit/s)

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

- Flow 1 (95th percentile 265.26 ms)
- Flow 2 (95th percentile 224.48 ms)
- Flow 3 (95th percentile 247.41 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 23:12:45
End at: 2020-04-16 23:13:15
Local clock offset: 0.182 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-04-17 03:42:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 577.06 Mbit/s
  95th percentile per-packet one-way delay: 272.358 ms
  Loss rate: 5.88%
-- Flow 1:
  Average throughput: 317.83 Mbit/s
  95th percentile per-packet one-way delay: 271.731 ms
  Loss rate: 7.22%
-- Flow 2:
  Average throughput: 279.04 Mbit/s
  95th percentile per-packet one-way delay: 270.377 ms
  Loss rate: 3.68%
-- Flow 3:
  Average throughput: 223.88 Mbit/s
  95th percentile per-packet one-way delay: 282.996 ms
  Loss rate: 5.42%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2020-04-16 23:56:59
End at: 2020-04-16 23:57:29
Local clock offset: -0.154 ms
Remote clock offset: -0.425 ms

# Below is generated by plot.py at 2020-04-17 03:42:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.48 Mbit/s
95th percentile per-packet one-way delay: 216.195 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 300.65 Mbit/s
95th percentile per-packet one-way delay: 210.287 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 252.73 Mbit/s
95th percentile per-packet one-way delay: 228.727 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 217.91 Mbit/s
95th percentile per-packet one-way delay: 285.118 ms
Loss rate: 4.99%
Run 4: Report of PCC-Allegro — Data Link

![Throughput Graph]

![Packet One-Way Delay Graph]
Run 5: Statistics of PCC-Allegro

Start at: 2020-04-17 00:40:19
End at: 2020-04-17 00:40:49
Local clock offset: -0.061 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2020-04-17 03:48:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 602.55 Mbit/s
95th percentile per-packet one-way delay: 265.458 ms
Loss rate: 6.06%
-- Flow 1:
Average throughput: 345.61 Mbit/s
95th percentile per-packet one-way delay: 271.497 ms
Loss rate: 9.24%
-- Flow 2:
Average throughput: 273.15 Mbit/s
95th percentile per-packet one-way delay: 199.770 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 228.81 Mbit/s
95th percentile per-packet one-way delay: 201.319 ms
Loss rate: 0.00%
Run 5: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 22:05:54
End at: 2020-04-16 22:06:24
Local clock offset: 0.186 ms
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2020-04-17 03:48:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 471.50 Mbit/s
95th percentile per-packet one-way delay: 225.571 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 300.19 Mbit/s
95th percentile per-packet one-way delay: 238.369 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 184.40 Mbit/s
95th percentile per-packet one-way delay: 165.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.63 Mbit/s
95th percentile per-packet one-way delay: 153.613 ms
Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 22:49:16
End at: 2020-04-16 22:49:46
Local clock offset: -0.222 ms
Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2020-04-17 03:48:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.94 Mbit/s
95th percentile per-packet one-way delay: 183.716 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 194.04 Mbit/s
95th percentile per-packet one-way delay: 143.184 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 188.74 Mbit/s
95th percentile per-packet one-way delay: 205.571 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 146.83 Mbit/s
95th percentile per-packet one-way delay: 194.883 ms
Loss rate: 0.00%
Run 2: Report of PCC-Expr — Data Link

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

**Graph 1:**
- **Flow 1 ingress** (mean 194.14 Mbit/s)
- **Flow 1 egress** (mean 194.04 Mbit/s)
- **Flow 2 ingress** (mean 199.61 Mbit/s)
- **Flow 2 egress** (mean 188.76 Mbit/s)
- **Flow 3 ingress** (mean 146.84 Mbit/s)
- **Flow 3 egress** (mean 144.83 Mbit/s)

**Graph 2:**
- **Flow 1** (95th percentile 143.18 ms)
- **Flow 2** (95th percentile 205.57 ms)
- **Flow 3** (95th percentile 194.88 ms)
Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 23:32:47
End at: 2020-04-16 23:33:17
Local clock offset: -0.114 ms
Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2020-04-17 03:49:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 491.09 Mbit/s
95th percentile per-packet one-way delay: 261.265 ms
Loss rate: 6.37%
-- Flow 1:
Average throughput: 288.05 Mbit/s
95th percentile per-packet one-way delay: 261.557 ms
Loss rate: 7.11%
-- Flow 2:
Average throughput: 265.14 Mbit/s
95th percentile per-packet one-way delay: 262.814 ms
Loss rate: 6.07%
-- Flow 3:
Average throughput: 80.98 Mbit/s
95th percentile per-packet one-way delay: 133.508 ms
Loss rate: 0.00%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2020-04-17 00:17:02
End at: 2020-04-17 00:17:32
Local clock offset: -0.048 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2020-04-17 03:57:37

# Datalink statistics
-- Total of 3 flows:
Average throughput: 458.76 Mbit/s
95th percentile per-packet one-way delay: 234.451 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 288.40 Mbit/s
95th percentile per-packet one-way delay: 240.483 ms
Loss rate: 3.35%
-- Flow 2:
Average throughput: 182.90 Mbit/s
95th percentile per-packet one-way delay: 178.078 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 147.63 Mbit/s
95th percentile per-packet one-way delay: 189.434 ms
Loss rate: 0.92%
Run 4: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: One-packet queue delay (ms)]
Run 5: Statistics of PCC-Expr

Start at: 2020-04-17 01:00:59
End at: 2020-04-17 01:01:29
Local clock offset: -0.11 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 390.63 Mbit/s
  95th percentile per-packet one-way delay: 177.628 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 225.71 Mbit/s
  95th percentile per-packet one-way delay: 176.195 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 177.06 Mbit/s
  95th percentile per-packet one-way delay: 167.069 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 142.85 Mbit/s
  95th percentile per-packet one-way delay: 260.333 ms
  Loss rate: 2.56%
Run 5: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 21:57:20
End at: 2020-04-16 21:57:50
Local clock offset: -0.234 ms
Remote clock offset: -0.519 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.91 Mbit/s
95th percentile per-packet one-way delay: 132.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 132.203 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 130.962 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.16 Mbit/s
95th percentile per-packet one-way delay: 132.285 ms
Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link

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

- **Flow 1**
  - Ingress: Mean 0.01 Mbit/s
  - Egress: Mean 0.01 Mbit/s

- **Flow 2**
  - Ingress: Mean 61.95 Mbit/s
  - Egress: Mean 61.95 Mbit/s

- **Flow 3**
  - Ingress: Mean 64.16 Mbit/s
  - Egress: Mean 64.16 Mbit/s

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

- Flow 1 (95th percentile 132.20 ms)
- Flow 2 (95th percentile 130.96 ms)
- Flow 3 (95th percentile 132.28 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 22:40:39
End at: 2020-04-16 22:41:09
Local clock offset: -0.166 ms
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.65 Mbit/s
95th percentile per-packet one-way delay: 132.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 131.357 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 131.099 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 132.364 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link

![Graph of data link performance over time showing throughput and packet round trip delay.]

- Flow 1 ingress (mean 65.29 Mb/s)
- Flow 1 egress (mean 66.30 Mb/s)
- Flow 2 ingress (mean 58.35 Mb/s)
- Flow 2 egress (mean 58.55 Mb/s)
- Flow 3 ingress (mean 32.58 Mb/s)
- Flow 3 egress (mean 32.58 Mb/s)

![Graph of per-packet one way delay over time.]
Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 23:24:24
End at: 2020-04-16 23:24:54
Local clock offset: -0.182 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.42 Mbit/s
95th percentile per-packet one-way delay: 134.080 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 132.187 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.19 Mbit/s
95th percentile per-packet one-way delay: 134.155 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 132.239 ms
Loss rate: 0.01%
Run 3: Report of QUIC Cubic — Data Link

Graph 1: Throughput (Mbps) over Time (s)
- Flow 1 ingress (mean 63.23 Mbps/s)
- Flow 1 egress (mean 63.23 Mbps/s)
- Flow 2 ingress (mean 47.19 Mbps/s)
- Flow 2 egress (mean 47.19 Mbps/s)
- Flow 3 ingress (mean 36.65 Mbps/s)
- Flow 3 egress (mean 36.65 Mbps/s)

Graph 2: Per-packet one-way delay (ms) over Time (s)
- Flow 1 (95th percentile 132.19 ms)
- Flow 2 (95th percentile 134.16 ms)
- Flow 3 (95th percentile 132.24 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2020-04-17 00:08:35
End at: 2020-04-17 00:09:05
Local clock offset: -0.112 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.18 Mbit/s
95th percentile per-packet one-way delay: 132.156 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.02 Mbit/s
95th percentile per-packet one-way delay: 131.057 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.05 Mbit/s
95th percentile per-packet one-way delay: 132.248 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.30 Mbit/s
95th percentile per-packet one-way delay: 131.055 ms
Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2020-04-17 00:52:16
End at: 2020-04-17 00:52:46
Local clock offset: 0.239 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.06 Mbit/s
95th percentile per-packet one-way delay: 131.872 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.84 Mbit/s
95th percentile per-packet one-way delay: 131.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 131.913 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.99 Mbit/s
95th percentile per-packet one-way delay: 131.878 ms
Loss rate: 0.00%
Run 5: Report of QUIC Cubic — Data Link

![Graph 1: Throughout (Mbps)]

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

Flow 1 ingess (mean 51.84 Mbps/s)
Flow 1 egress (mean 51.84 Mbps/s)
Flow 2 ingess (mean 61.00 Mbps/s)
Flow 2 egress (mean 61.00 Mbps/s)
Flow 3 ingess (mean 61.99 Mbps/s)
Flow 3 egress (mean 61.99 Mbps/s)
Run 1: Statistics of SCReAM

Start at: 2020-04-16 22:13:52
End at: 2020-04-16 22:14:22
Local clock offset: 0.146 ms
Remote clock offset: -0.551 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.29 Mbit/s
  95th percentile per-packet one-way delay: 132.066 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 132.094 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 130.023 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 131.999 ms
  Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2020-04-16 22:57:17
End at: 2020-04-16 22:57:47
Local clock offset: -0.19 ms
Remote clock offset: -0.192 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 131.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 130.245 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 131.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 131.371 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2020-04-16 23:41:18
End at: 2020-04-16 23:41:48
Local clock offset: -0.096 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.29 Mbit/s
  95th percentile per-packet one-way delay: 132.308 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 131.077 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 131.364 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.371 ms
  Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph of Throughput (Mbps)]

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

Flow 1 ingress (mean 0.14 Mbps) - Flow 1 egress (mean 0.14 Mbps)
Flow 2 ingress (mean 0.15 Mbps) - Flow 2 egress (mean 0.15 Mbps)
Flow 3 ingress (mean 0.13 Mbps) - Flow 3 egress (mean 0.13 Mbps)

Flow 1 (95th percentile 131.08 ms) - Flow 2 (95th percentile 131.36 ms) - Flow 3 (95th percentile 132.37 ms)
Run 4: Statistics of SCReAM

Start at: 2020-04-17 00:25:04
End at: 2020-04-17 00:25:34
Local clock offset: -0.116 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.29 Mbit/s
  95th percentile per-packet one-way delay: 132.234 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 132.198 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.165 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.310 ms
  Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

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

- **Flow 1 ingress (mean 0.14 Mbps)**
- **Flow 1 egress (mean 0.14 Mbps)**
- **Flow 2 ingress (mean 0.15 Mbps)**
- **Flow 2 egress (mean 0.15 Mbps)**
- **Flow 3 ingress (mean 0.15 Mbps)**
- **Flow 3 egress (mean 0.15 Mbps)**

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

- **Flow 1 (95th percentile 132.20 ms)**
- **Flow 2 (95th percentile 132.16 ms)**
- **Flow 3 (95th percentile 132.31 ms)**
Run 5: Statistics of SCReAM

Start at: 2020-04-17 01:09:03
End at: 2020-04-17 01:09:33
Local clock offset: -0.132 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 135.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.413 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.841 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 131.176 ms
Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2020-04-16 21:44:32
End at: 2020-04-16 21:45:02
Local clock offset: 0.086 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 131.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 131.118 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 131.428 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 131.447 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

![Graph showing throughput and packet delivery delay](image-url)
Run 2: Statistics of Sprout

Start at: 2020-04-16 22:28:01
End at: 2020-04-16 22:28:31
Local clock offset: -0.065 ms
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 131.293 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 131.310 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 131.267 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 131.315 ms
Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

![Graph showing throughput and delay over time]

Legend:
- Blue dashed line: Flow 1 ingress (mean 0.90 Mbit/s)
- Blue solid line: Flow 1 egress (mean 0.90 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 0.86 Mbit/s)
- Green solid line: Flow 2 egress (mean 0.86 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 0.69 Mbit/s)
- Red solid line: Flow 3 egress (mean 0.69 Mbit/s)

![Graph showing per-packet end-to-end delay over time]

Legend:
- Blue dots: Flow 1 (95th percentile 131.31 ms)
- Green dots: Flow 2 (95th percentile 131.27 ms)
- Red dots: Flow 3 (95th percentile 131.31 ms)
Run 3: Statistics of Sprout

Start at: 2020-04-16 23:11:26
End at: 2020-04-16 23:11:56
Local clock offset: -0.184 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 132.422 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 131.396 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 132.541 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 130.498 ms
Loss rate: 0.00%
Run 4: Statistics of Sprout

End at: 2020-04-16 23:56:11
Local clock offset: -0.109 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.42 Mbit/s
  95th percentile per-packet one-way delay: 132.206 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.86 Mbit/s
  95th percentile per-packet one-way delay: 131.719 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.48 Mbit/s
  95th percentile per-packet one-way delay: 132.375 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.75 Mbit/s
  95th percentile per-packet one-way delay: 131.373 ms
  Loss rate: 0.00%
Run 4: Report of Sprout — Data Link

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

Start at: 2020-04-17 00:39:00
End at: 2020-04-17 00:39:30
Local clock offset: -0.098 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2020-04-17 03:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 132.396 ms
Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.71 Mbit/s
  95th percentile per-packet one-way delay: 132.514 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.69 Mbit/s
  95th percentile per-packet one-way delay: 131.340 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.67 Mbit/s
  95th percentile per-packet one-way delay: 131.205 ms
  Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

![Graph of End-to-End Delay (ms) vs. Time (s)]

Flow 1 ingress (mean 0.71 Mbit/s), Flow 1 egress (mean 0.71 Mbit/s), Flow 2 ingress (mean 0.69 Mbit/s), Flow 2 egress (mean 0.69 Mbit/s), Flow 3 ingress (mean 0.67 Mbit/s), Flow 3 egress (mean 0.67 Mbit/s)
Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 22:10:16
End at: 2020-04-16 22:10:46
Local clock offset: 0.171 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2020-04-17 03:57:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.23 Mbit/s
95th percentile per-packet one-way delay: 132.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.18 Mbit/s
95th percentile per-packet one-way delay: 132.507 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 166.19 Mbit/s
95th percentile per-packet one-way delay: 132.387 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 127.31 Mbit/s
95th percentile per-packet one-way delay: 133.957 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 22:53:36
End at: 2020-04-16 22:54:06
Local clock offset: -0.228 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2020-04-17 03:57:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.56 Mbit/s
95th percentile per-packet one-way delay: 135.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.14 Mbit/s
95th percentile per-packet one-way delay: 132.295 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 179.32 Mbit/s
95th percentile per-packet one-way delay: 135.775 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 177.28 Mbit/s
95th percentile per-packet one-way delay: 131.438 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 13.14 Mbps)
  - Flow 1 egress (mean 13.14 Mbps)
  - Flow 2 ingress (mean 179.32 Mbps)
  - Flow 2 egress (mean 179.32 Mbps)
  - Flow 3 ingress (mean 177.28 Mbps)
  - Flow 3 egress (mean 177.28 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 132.29 ms)
  - Flow 2 (95th percentile 135.78 ms)
  - Flow 3 (95th percentile 131.44 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 23:37:18
End at: 2020-04-16 23:37:48
Local clock offset: -0.136 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2020-04-17 03:59:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.97 Mbit/s
95th percentile per-packet one-way delay: 133.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.00 Mbit/s
95th percentile per-packet one-way delay: 132.405 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 167.39 Mbit/s
95th percentile per-packet one-way delay: 134.344 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.30 Mbit/s
95th percentile per-packet one-way delay: 135.622 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 186.99 Mbps)**
- **Flow 1 egress (mean 187.00 Mbps)**
- **Flow 2 ingress (mean 167.39 Mbps)**
- **Flow 2 egress (mean 167.39 Mbps)**
- **Flow 3 ingress (mean 170.30 Mbps)**
- **Flow 3 egress (mean 170.30 Mbps)**

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

- **Flow 1 (95th percentile 132.41 ms)**
- **Flow 2 (95th percentile 134.34 ms)**
- **Flow 3 (95th percentile 135.62 ms)**
Run 4: Statistics of TaoVA-100x

Start at: 2020-04-17 00:21:26  
End at: 2020-04-17 00:21:56  
Local clock offset: -0.099 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2020-04-17 03:59:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 197.88 Mbit/s
  95th percentile per-packet one-way delay: 131.614 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 184.86 Mbit/s
  95th percentile per-packet one-way delay: 131.642 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 13.18 Mbit/s
  95th percentile per-packet one-way delay: 131.010 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 12.78 Mbit/s
  95th percentile per-packet one-way delay: 130.995 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

![Graph 1]

![Graph 2]
Run 5: Statistics of TaoVA-100x

Start at: 2020-04-17 01:05:13
End at: 2020-04-17 01:05:43
Local clock offset: -0.482 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2020-04-17 03:59:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.23 Mbit/s
95th percentile per-packet one-way delay: 133.830 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.89 Mbit/s
95th percentile per-packet one-way delay: 133.847 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.86 Mbit/s
95th percentile per-packet one-way delay: 132.780 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 12.53 Mbit/s
95th percentile per-packet one-way delay: 136.013 ms
Loss rate: 0.03%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 21:49:31
End at: 2020-04-16 21:50:01
Local clock offset: 0.106 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2020-04-17 03:59:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 441.49 Mbit/s
95th percentile per-packet one-way delay: 147.298 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 201.20 Mbit/s
95th percentile per-packet one-way delay: 130.675 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 260.60 Mbit/s
95th percentile per-packet one-way delay: 144.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 200.82 Mbit/s
95th percentile per-packet one-way delay: 210.605 ms
Loss rate: 0.45%
Run 1: Report of TCP Vegas — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 201.19 Mbps)
- Flow 1 egress (mean 201.20 Mbps)
- Flow 2 ingress (mean 260.60 Mbps)
- Flow 2 egress (mean 260.60 Mbps)
- Flow 3 ingress (mean 201.73 Mbps)
- Flow 3 egress (mean 200.82 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 130.68 ms)
- Flow 2 (95th percentile 144.93 ms)
- Flow 3 (95th percentile 210.60 ms)
Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 22:32:58
End at: 2020-04-16 22:33:28
Local clock offset: -0.142 ms
Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2020-04-17 04:08:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 740.44 Mbit/s
  95th percentile per-packet one-way delay: 209.013 ms
  Loss rate: 0.80%
-- Flow 1:
  Average throughput: 338.75 Mbit/s
  95th percentile per-packet one-way delay: 188.915 ms
  Loss rate: 1.18%
-- Flow 2:
  Average throughput: 443.80 Mbit/s
  95th percentile per-packet one-way delay: 219.137 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 319.19 Mbit/s
  95th percentile per-packet one-way delay: 184.908 ms
  Loss rate: 0.03%
Run 2: Report of TCP Vegas — Data Link

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

Start at: 2020-04-16 23:16:34
End at: 2020-04-16 23:17:04
Local clock offset: -0.15 ms
Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2020-04-17 04:08:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 630.22 Mbit/s
95th percentile per-packet one-way delay: 165.696 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 299.25 Mbit/s
95th percentile per-packet one-way delay: 145.352 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 388.91 Mbit/s
95th percentile per-packet one-way delay: 150.438 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 216.35 Mbit/s
95th percentile per-packet one-way delay: 236.695 ms
Loss rate: 3.91%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2020-04-17 00:00:37
End at: 2020-04-17 00:01:07
Local clock offset: -0.138 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2020-04-17 04:09:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 690.79 Mbit/s
95th percentile per-packet one-way delay: 182.442 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 337.00 Mbit/s
95th percentile per-packet one-way delay: 175.883 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 387.24 Mbit/s
95th percentile per-packet one-way delay: 173.726 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 289.30 Mbit/s
95th percentile per-packet one-way delay: 187.560 ms
Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one-way delay (ms)
Run 5: Statistics of TCP Vegas

Start at: 2020-04-17 00:44:22
End at: 2020-04-17 00:44:52
Local clock offset: 0.265 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2020-04-17 04:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 738.25 Mbit/s
95th percentile per-packet one-way delay: 178.614 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 405.19 Mbit/s
95th percentile per-packet one-way delay: 155.261 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 343.85 Mbit/s
95th percentile per-packet one-way delay: 180.724 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 313.02 Mbit/s
95th percentile per-packet one-way delay: 230.172 ms
Loss rate: 0.87%
Run 5: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 405.19 Mbit/s)
- Flow 1 egress (mean 405.19 Mbit/s)
- Flow 2 ingress (mean 343.85 Mbit/s)
- Flow 2 egress (mean 343.85 Mbit/s)
- Flow 3 ingress (mean 315.79 Mbit/s)
- Flow 3 egress (mean 315.02 Mbit/s)

- Flow 1 (95th percentile 155.26 ms)
- Flow 2 (95th percentile 180.72 ms)
- Flow 3 (95th percentile 230.17 ms)
Run 1: Statistics of Verus

End at: 2020-04-16 21:56:08  
Local clock offset: 0.09 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2020-04-17 04:10:18  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 189.55 Mbit/s  
95th percentile per-packet one-way delay: 174.997 ms  
Loss rate: 0.00%  

-- Flow 1:  
Average throughput: 75.33 Mbit/s  
95th percentile per-packet one-way delay: 139.600 ms  
Loss rate: 0.00%  

-- Flow 2:  
Average throughput: 122.58 Mbit/s  
95th percentile per-packet one-way delay: 196.148 ms  
Loss rate: 0.00%  

-- Flow 3:  
Average throughput: 101.62 Mbit/s  
95th percentile per-packet one-way delay: 162.766 ms  
Loss rate: 0.00%
Run 1: Report of Verus — Data Link

![Graph 1: Throughput (Mbps)]

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

Flow 1 (ingress mean 75.32 Mbps) > Flow 2 (ingress mean 122.58 Mbps) > Flow 3 (ingress mean 101.62 Mbps)

Flow 1 (egress mean 75.33 Mbps) > Flow 2 (egress mean 122.58 Mbps) > Flow 3 (egress mean 101.62 Mbps)
Run 2: Statistics of Verus

Start at: 2020-04-16 22:38:59
End at: 2020-04-16 22:39:29
Local clock offset: -0.175 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2020-04-17 04:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 177.03 Mbit/s
95th percentile per-packet one-way delay: 231.972 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 34.56 Mbit/s
95th percentile per-packet one-way delay: 167.266 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.42 Mbit/s
95th percentile per-packet one-way delay: 208.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 285.542 ms
Loss rate: 1.66%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2020-04-16 23:22:49
End at: 2020-04-16 23:23:19
Local clock offset: -0.169 ms
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2020-04-17 04:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.13 Mbit/s
95th percentile per-packet one-way delay: 287.646 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 216.936 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 269.080 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 306.983 ms
Loss rate: 8.31%
Run 3: Report of Verus — Data Link

![Graph showing network performance metrics for Run 3.]

- **Throughput (Mbps)** over time for:
  - Flow 1 ingress (mean 75.01 Mbps)
  - Flow 1 egress (mean 74.61 Mbps)
  - Flow 2 ingress (mean 51.31 Mbps)
  - Flow 2 egress (mean 50.32 Mbps)
  - Flow 3 ingress (mean 81.75 Mbps)
  - Flow 3 egress (mean 74.97 Mbps)

- **One-way delay (ms)** over time for:
  - Flow 1 (95th percentile 216.94 ms)
  - Flow 2 (95th percentile 269.08 ms)
  - Flow 3 (95th percentile 306.90 ms)
Run 4: Statistics of Verus

Start at: 2020-04-17 00:06:52
End at: 2020-04-17 00:07:22
Local clock offset: -0.059 ms
Remote clock offset: -0.424 ms

# Below is generated by plot.py at 2020-04-17 04:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.29 Mbit/s
95th percentile per-packet one-way delay: 309.333 ms
Loss rate: 6.13%
-- Flow 1:
Average throughput: 113.04 Mbit/s
95th percentile per-packet one-way delay: 300.045 ms
Loss rate: 5.17%
-- Flow 2:
Average throughput: 113.09 Mbit/s
95th percentile per-packet one-way delay: 316.430 ms
Loss rate: 8.07%
-- Flow 3:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 135.514 ms
Loss rate: 0.00%
Run 4: Report of Verus — Data Link

![Graph showing network throughput and delay over time for different flow rates and percentile delays.]

- **Flow 1 ingress (mean 119.17 Mbit/s)**
- **Flow 1 egress (mean 113.04 Mbit/s)**
- **Flow 2 ingress (mean 123.02 Mbit/s)**
- **Flow 2 egress (mean 113.09 Mbit/s)**
- **Flow 3 ingress (mean 22.58 Mbit/s)**
- **Flow 3 egress (mean 22.58 Mbit/s)**

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

- **Flow 1 (95th percentile 300.05 ms)**
- **Flow 2 (95th percentile 316.43 ms)**
- **Flow 3 (95th percentile 135.51 ms)**
Run 5: Statistics of Verus

Start at: 2020-04-17 00:50:40
End at: 2020-04-17 00:51:10
Local clock offset: 0.228 ms
Remote clock offset: -0.446 ms

# Below is generated by plot.py at 2020-04-17 04:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.50 Mbit/s
95th percentile per-packet one-way delay: 216.755 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 235.767 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 139.199 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.36 Mbit/s
95th percentile per-packet one-way delay: 136.463 ms
Loss rate: 0.00%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 22:02:00
End at: 2020-04-16 22:02:30
Local clock offset: 0.111 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2020-04-17 04:12:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.47 Mbit/s
95th percentile per-packet one-way delay: 136.400 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 280.90 Mbit/s
95th percentile per-packet one-way delay: 136.831 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 176.53 Mbit/s
95th percentile per-packet one-way delay: 136.396 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 135.515 ms
Loss rate: 0.00%
Run 1: Report of PCC-Vivace — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 280.93 Mbps)
- **Flow 1 egress** (mean 280.90 Mbps)
- **Flow 2 ingress** (mean 176.54 Mbps)
- **Flow 2 egress** (mean 176.53 Mbps)
- **Flow 3 ingress** (mean 78.88 Mbps)
- **Flow 3 egress** (mean 78.88 Mbps)

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

- **Flow 1** (95th percentile 136.83 ms)
- **Flow 2** (95th percentile 136.40 ms)
- **Flow 3** (95th percentile 135.51 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 22:45:20
End at: 2020-04-16 22:45:50
Local clock offset: -0.22 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2020-04-17 04:12:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 465.61 Mbit/s
95th percentile per-packet one-way delay: 138.634 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 287.14 Mbit/s
95th percentile per-packet one-way delay: 137.902 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 206.59 Mbit/s
95th percentile per-packet one-way delay: 141.497 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 124.51 Mbit/s
95th percentile per-packet one-way delay: 136.344 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

![Graph of Throughput vs Time](image1)

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

Start at: 2020-04-16 23:29:08
End at: 2020-04-16 23:29:38
Local clock offset: -0.163 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 04:12:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 448.13 Mbit/s
  95th percentile per-packet one-way delay: 138.065 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 298.52 Mbit/s
  95th percentile per-packet one-way delay: 139.621 ms
  Loss rate: 0.20%
-- Flow 2:
  Average throughput: 170.36 Mbit/s
  95th percentile per-packet one-way delay: 136.671 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 110.17 Mbit/s
  95th percentile per-packet one-way delay: 136.636 ms
  Loss rate: 0.07%
Run 3: Report of PCC-Vivace — Data Link

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

Flow 1 ingress (mean 299.09 Mbit/s)
Flow 1 egress (mean 298.52 Mbit/s)
Flow 2 ingress (mean 170.33 Mbit/s)
Flow 2 egress (mean 170.36 Mbit/s)
Flow 3 ingress (mean 110.23 Mbit/s)
Flow 3 egress (mean 110.17 Mbit/s)
Run 4: Statistics of PCC-Vivace

Start at: 2020-04-17 00:13:16
End at: 2020-04-17 00:13:46
Local clock offset: -0.079 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2020-04-17 04:12:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 307.86 Mbit/s
  95th percentile per-packet one-way delay: 243.714 ms
  Loss rate: 1.47%
-- Flow 1:
  Average throughput: 148.95 Mbit/s
  95th percentile per-packet one-way delay: 259.047 ms
  Loss rate: 2.40%
-- Flow 2:
  Average throughput: 191.83 Mbit/s
  95th percentile per-packet one-way delay: 227.535 ms
  Loss rate: 0.72%
-- Flow 3:
  Average throughput: 95.05 Mbit/s
  95th percentile per-packet one-way delay: 249.806 ms
  Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

![Graph 1: Throughput](image1)

![Graph 2: Delay](image2)
Run 5: Statistics of PCC-Vivace

Start at: 2020-04-17 00:56:59
End at: 2020-04-17 00:57:29
Local clock offset: -0.05 ms
Remote clock offset: 0.256 ms

# Below is generated by plot.py at 2020-04-17 04:12:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 460.23 Mbit/s
  95th percentile per-packet one-way delay: 138.503 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 304.74 Mbit/s
  95th percentile per-packet one-way delay: 138.824 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 177.46 Mbit/s
  95th percentile per-packet one-way delay: 134.661 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 112.94 Mbit/s
  95th percentile per-packet one-way delay: 153.561 ms
  Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link
Run 1: Statistics of WebRTC media

Start at: 2020-04-16 21:58:43
End at: 2020-04-16 21:59:13
Local clock offset: 0.127 ms
Remote clock offset: -0.202 ms
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2020-04-16 22:42:06
End at: 2020-04-16 22:42:37
Local clock offset: -0.167 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2020-04-17 04:12:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 132.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 132.682 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 132.725 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.535 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2020-04-16 23:25:51
End at: 2020-04-16 23:26:21
Local clock offset: -0.179 ms
Remote clock offset: -0.062 ms
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2020-04-17 00:10:01
End at: 2020-04-17 00:10:31
Local clock offset: 0.253 ms
Remote clock offset: -0.056 ms
Run 4: Report of WebRTC media — Data Link

![Graph showing throughput (Mbps) vs. time (s) for different flows.]

- Flow 1 ingress (mean 0.91 Mbps)
- Flow 1 egress (mean 0.91 Mbps)
- Flow 2 ingress (mean 0.92 Mbps)
- Flow 2 egress (mean 0.92 Mbps)
- Flow 3 ingress (mean 0.96 Mbps)
- Flow 3 egress (mean 0.96 Mbps)

![Graph showing per-packet one-way delay (ms) vs. time (s) for different flows.]

- Flow 1 (95th percentile 131.97 ms)
- Flow 2 (95th percentile 130.72 ms)
- Flow 3 (95th percentile 130.76 ms)
Run 5: Statistics of WebRTC media

Start at: 2020-04-17 00:53:43
End at: 2020-04-17 00:54:13
Local clock offset: 0.267 ms
Remote clock offset: -0.094 ms
Run 5: Report of WebRTC media — Data Link