Pantheon Report

Generated at 2019-08-27 14:11:42 (UTC).
Data path: India on em1 (remote) → AWS India 1 on ens5 (local).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against nets.org.sg and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1043-aws
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 @ de42328552b3776a75a932a94dfaf7d722537b0ec
third_party/fillp @ d66a1459332fcee56963885d7e1e6a32d4519
third_party/fillp-sheep @ 0a6b722943babcd2b0902d2c64fcd4e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbf58e562f4
third_party/indigo @ 2601c92e4a9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 56721187ad823da20955337730c746486ca4966
third_party/muses-dtree @ 38722f5f7b5f61d9be92d708a8869fbb84eb3200
third_party/pantheon-tunnel @ f866df5f5d2f7a9d42717625ee3a354cc2e802bd
third_party/pcc @ 1af9958fa0d66d18b623c091a55f6c8724981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M receiver/src/buffer.h
M receiver/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8adc08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3ccff42
third_party/scream-reproduce @ f099118d1421a3131bf11ff1964974e1da3dbb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace 0 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc 0 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from India to AWS India 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<tbody>
<tr>
<td></td>
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<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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Run 1: Statistics of TCP BBR

Start at: 2019-08-27 11:27:11
End at: 2019-08-27 11:27:41
Local clock offset: -1.14 ms
Remote clock offset: -5.294 ms

# Below is generated by plot.py at 2019-08-27 13:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 76.175 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 63.067 ms
Loss rate: 1.67%
-- Flow 2:
Average throughput: 40.81 Mbit/s
95th percentile per-packet one-way delay: 97.986 ms
Loss rate: 1.96%
-- Flow 3:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 83.954 ms
Loss rate: 2.18%
Run 1: Report of TCP BBR — Data Link

- Flow 1 ingress (mean 59.72 Mbit/s)
- Flow 1 egress (mean 58.78 Mbit/s)
- Flow 2 ingress (mean 41.57 Mbit/s)
- Flow 2 egress (mean 40.81 Mbit/s)
- Flow 3 ingress (mean 33.82 Mbit/s)
- Flow 3 egress (mean 32.98 Mbit/s)

- Flow 1 (95th percentile 63.07 ms)
- Flow 2 (95th percentile 97.99 ms)
- Flow 3 (95th percentile 83.95 ms)
Run 2: Statistics of TCP BBR

Start at: 2019-08-27 11:57:02
End at: 2019-08-27 11:57:32
Local clock offset: -0.08 ms
Remote clock offset: -3.517 ms

# Below is generated by plot.py at 2019-08-27 13:56:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.80 Mbit/s
  95th percentile per-packet one-way delay: 85.256 ms
  Loss rate: 1.46%
-- Flow 1:
  Average throughput: 58.95 Mbit/s
  95th percentile per-packet one-way delay: 43.434 ms
  Loss rate: 1.36%
-- Flow 2:
  Average throughput: 40.40 Mbit/s
  95th percentile per-packet one-way delay: 121.719 ms
  Loss rate: 1.65%
-- Flow 3:
  Average throughput: 33.03 Mbit/s
  95th percentile per-packet one-way delay: 223.494 ms
  Loss rate: 1.59%
Run 2: Report of TCP BBR — Data Link

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

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

Legend:
- Flow 1 ingress (mean 59.71 Mbit/s)
- Flow 1 egress (mean 58.95 Mbit/s)
- Flow 2 ingress (mean 41.02 Mbit/s)
- Flow 2 egress (mean 40.40 Mbit/s)
- Flow 3 ingress (mean 33.46 Mbit/s)
- Flow 3 egress (mean 33.03 Mbit/s)

Legend:
- Flow 1 (95th percentile 43.43 ms)
- Flow 2 (95th percentile 121.72 ms)
- Flow 3 (95th percentile 223.49 ms)
Run 3: Statistics of TCP BBR

Start at: 2019-08-27 12:26:22
End at: 2019-08-27 12:26:52
Local clock offset: 0.098 ms
Remote clock offset: -4.435 ms

# Below is generated by plot.py at 2019-08-27 13:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 84.678 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 52.810 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 40.43 Mbit/s
95th percentile per-packet one-way delay: 114.772 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 206.724 ms
Loss rate: 1.80%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2019-08-27 12:56:20
End at: 2019-08-27 12:56:50
Local clock offset: -0.852 ms
Remote clock offset: -3.359 ms

# Below is generated by plot.py at 2019-08-27 13:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.73 Mbit/s
95th percentile per-packet one-way delay: 84.339 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 53.203 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 96.259 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 109.387 ms
Loss rate: 1.59%
Run 4: Report of TCP BBR — Data Link

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

- **Flow 1 ingress (mean 56.72 Mbit/s)**
- **Flow 1 egress (mean 56.21 Mbit/s)**
- **Flow 2 ingress (mean 48.84 Mbit/s)**
- **Flow 2 egress (mean 48.30 Mbit/s)**
- **Flow 3 ingress (mean 25.52 Mbit/s)**
- **Flow 3 egress (mean 25.18 Mbit/s)**

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

- **Flow 1 (95th percentile 53.20 ms)**
- **Flow 2 (95th percentile 96.26 ms)**
- **Flow 3 (95th percentile 109.39 ms)**
Run 5: Statistics of TCP BBR

End at: 2019-08-27 13:26:09
Local clock offset: -0.716 ms
Remote clock offset: -3.44 ms

# Below is generated by plot.py at 2019-08-27 13:56:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.84 Mbit/s
  95th percentile per-packet one-way delay: 76.849 ms
  Loss rate: 1.58%
-- Flow 1:
  Average throughput: 56.22 Mbit/s
  95th percentile per-packet one-way delay: 48.222 ms
  Loss rate: 1.21%
-- Flow 2:
  Average throughput: 48.32 Mbit/s
  95th percentile per-packet one-way delay: 90.637 ms
  Loss rate: 2.09%
-- Flow 3:
  Average throughput: 25.48 Mbit/s
  95th percentile per-packet one-way delay: 135.766 ms
  Loss rate: 2.13%
Run 1: Statistics of Copa

Start at: 2019-08-27 11:36:06
End at: 2019-08-27 11:36:36
Local clock offset: 0.114 ms
Remote clock offset: -3.065 ms

# Below is generated by plot.py at 2019-08-27 13:57:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 30.813 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.35 Mbit/s
95th percentile per-packet one-way delay: 31.768 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 27.625 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 18.69 Mbit/s
95th percentile per-packet one-way delay: 31.370 ms
Loss rate: 0.37%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2019-08-27 12:05:37
End at: 2019-08-27 12:06:07
Local clock offset: -0.198 ms
Remote clock offset: -2.455 ms

# Below is generated by plot.py at 2019-08-27 13:57:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.28 Mbit/s
95th percentile per-packet one-way delay: 26.517 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 27.494 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 26.556 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 30.71 Mbit/s
95th percentile per-packet one-way delay: 23.765 ms
Loss rate: 0.21%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2019-08-27 12:35:02  
End at: 2019-08-27 12:35:32  
Local clock offset: -0.779 ms  
Remote clock offset: -4.442 ms  

# Below is generated by plot.py at 2019-08-27 13:57:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.47 Mbit/s  
95th percentile per-packet one-way delay: 31.769 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 52.80 Mbit/s  
95th percentile per-packet one-way delay: 33.761 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 37.15 Mbit/s  
95th percentile per-packet one-way delay: 26.712 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 26.91 Mbit/s  
95th percentile per-packet one-way delay: 30.416 ms  
Loss rate: 0.25%
Run 3: Report of Copa — Data Link

![Graph of throughput over time for different flows]

- Flow 1 ingress (mean 52.79 Mbit/s)
- Flow 1 egress (mean 52.80 Mbit/s)
- Flow 2 ingress (mean 37.13 Mbit/s)
- Flow 2 egress (mean 37.15 Mbit/s)
- Flow 3 ingress (mean 26.91 Mbit/s)
- Flow 3 egress (mean 26.91 Mbit/s)

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

- Flow 1 (95th percentile 33.76 ms)
- Flow 2 (95th percentile 26.71 ms)
- Flow 3 (95th percentile 30.42 ms)
Run 4: Statistics of Copa

Start at: 2019-08-27 13:04:53
End at: 2019-08-27 13:05:23
Local clock offset: -1.051 ms
Remote clock offset: -3.318 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.80 Mbit/s
  95th percentile per-packet one-way delay: 31.652 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 53.78 Mbit/s
  95th percentile per-packet one-way delay: 35.011 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 36.01 Mbit/s
  95th percentile per-packet one-way delay: 27.237 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 30.20 Mbit/s
  95th percentile per-packet one-way delay: 27.200 ms
  Loss rate: 0.27%
Run 4: Report of Copa — Data Link

![Graph 1: Throughput over Time](chart1)

- Flow 1 ingress (mean 53.78 Mbit/s)
- Flow 1 egress (mean 53.78 Mbit/s)
- Flow 2 ingress (mean 36.01 Mbit/s)
- Flow 2 egress (mean 36.01 Mbit/s)
- Flow 3 ingress (mean 30.21 Mbit/s)
- Flow 3 egress (mean 30.20 Mbit/s)

![Graph 2: Per-packet One-Way Delay over Time](chart2)

- Flow 1 (95th percentile 35.01 ms)
- Flow 2 (95th percentile 27.24 ms)
- Flow 3 (95th percentile 27.20 ms)
Run 5: Statistics of Copa

Start at: 2019-08-27 13:34:08
End at: 2019-08-27 13:34:38
Local clock offset: -0.533 ms
Remote clock offset: -1.05 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.36 Mbit/s
95th percentile per-packet one-way delay: 25.083 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 46.59 Mbit/s
95th percentile per-packet one-way delay: 27.368 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 21.868 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 21.70 Mbit/s
95th percentile per-packet one-way delay: 22.849 ms
Loss rate: 0.35%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

End at: 2019-08-27 11:48:52
Local clock offset: -0.94 ms
Remote clock offset: -5.038 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 32.028 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.30 Mbit/s
95th percentile per-packet one-way delay: 32.571 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 28.178 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 24.48 Mbit/s
95th percentile per-packet one-way delay: 28.596 ms
Loss rate: 0.37%
Run 1: Report of TCP Cubic — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 56.28 Mbps)
- **Flow 1 egress** (mean 56.30 Mbps)
- **Flow 2 ingress** (mean 47.84 Mbps)
- **Flow 2 egress** (mean 47.83 Mbps)
- **Flow 3 ingress** (mean 24.51 Mbps)
- **Flow 3 egress** (mean 24.48 Mbps)

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

- **Flow 1** (95th percentile 32.57 ms)
- **Flow 2** (95th percentile 28.18 ms)
- **Flow 3** (95th percentile 28.60 ms)
Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 12:17:51
End at: 2019-08-27 12:18:21
Local clock offset: -1.114 ms
Remote clock offset: -2.678 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 29.721 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 62.97 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 27.616 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 27.791 ms
Loss rate: 0.32%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 12:47:35
End at: 2019-08-27 12:48:05
Local clock offset: -0.313 ms
Remote clock offset: -1.402 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 31.933 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 54.64 Mbit/s
95th percentile per-packet one-way delay: 32.142 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.00 Mbit/s
95th percentile per-packet one-way delay: 31.884 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 47.19 Mbit/s
95th percentile per-packet one-way delay: 28.168 ms
Loss rate: 0.32%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 13:17:07
End at: 2019-08-27 13:17:37
Local clock offset: 0.18 ms
Remote clock offset: -3.028 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.05 Mbit/s
95th percentile per-packet one-way delay: 31.585 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 32.457 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 28.800 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 46.85 Mbit/s
95th percentile per-packet one-way delay: 28.352 ms
Loss rate: 0.31%
Run 4: Report of TCP Cubic — Data Link

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

![Graph 2: Per-packet One-Way Delay](image2)
Run 5: Statistics of TCP Cubic

End at: 2019-08-27 13:46:42
Local clock offset: -0.892 ms
Remote clock offset: -2.54 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.24 Mbit/s
95th percentile per-packet one-way delay: 27.416 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 26.632 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 28.304 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 27.113 ms
Loss rate: 0.36%
Run 5: Report of TCP Cubic — Data Link

![Graph showing Throughput and Delay over Time for different flows.]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 58.07 Mbit/s)
  - Flow 1 egress (mean 58.07 Mbit/s)
  - Flow 2 ingress (mean 40.26 Mbit/s)
  - Flow 2 egress (mean 40.25 Mbit/s)
  - Flow 3 ingress (mean 31.32 Mbit/s)
  - Flow 3 egress (mean 31.28 Mbit/s)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 26.63 ms)
  - Flow 2 (95th percentile 28.30 ms)
  - Flow 3 (95th percentile 27.11 ms)
Run 1: Statistics of FillP

Start at: 2019-08-27 11:50:49
End at: 2019-08-27 11:51:19
Local clock offset: -0.731 ms
Remote clock offset: -4.284 ms

# Below is generated by plot.py at 2019-08-27 13:58:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 72.361 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 55.701 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 80.502 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 31.88 Mbit/s
95th percentile per-packet one-way delay: 79.715 ms
Loss rate: 3.70%
Run 1: Report of FillP — Data Link

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

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

Start at: 2019-08-27 12:20:22
End at: 2019-08-27 12:20:52
Local clock offset: -0.318 ms
Remote clock offset: -3.421 ms

# Below is generated by plot.py at 2019-08-27 13:59:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 69.834 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 55.097 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 77.216 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 30.50 Mbit/s
95th percentile per-packet one-way delay: 73.210 ms
Loss rate: 2.17%
Run 2: Report of FillP — Data Link

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

- **Throughput (Mbps)**:
  - **Flow 1 ingress (mean 58.24 Mbps)**
  - **Flow 1 egress (mean 58.19 Mbps)**
  - **Flow 2 ingress (mean 41.63 Mbps)**
  - **Flow 2 egress (mean 41.01 Mbps)**
  - **Flow 3 ingress (mean 31.14 Mbps)**
  - **Flow 3 egress (mean 30.50 Mbps)**

- **Per-packet one-way delay (ms)**:
  - **Flow 1 (95th percentile 55.10 ms)**
  - **Flow 2 (95th percentile 77.22 ms)**
  - **Flow 3 (95th percentile 73.21 ms)**
Run 3: Statistics of FillP

Start at: 2019-08-27 12:50:08
End at: 2019-08-27 12:50:38
Local clock offset: -0.942 ms
Remote clock offset: -2.739 ms

# Below is generated by plot.py at 2019-08-27 13:59:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.58 Mbit/s
  95th percentile per-packet one-way delay: 99.791 ms
  Loss rate: 1.63%
-- Flow 1:
  Average throughput: 58.63 Mbit/s
  95th percentile per-packet one-way delay: 97.926 ms
  Loss rate: 1.10%
-- Flow 2:
  Average throughput: 39.92 Mbit/s
  95th percentile per-packet one-way delay: 101.072 ms
  Loss rate: 1.95%
-- Flow 3:
  Average throughput: 31.45 Mbit/s
  95th percentile per-packet one-way delay: 103.359 ms
  Loss rate: 3.79%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2019-08-27 13:19:30
End at: 2019-08-27 13:20:00
Local clock offset: -0.334 ms
Remote clock offset: -1.494 ms

# Below is generated by plot.py at 2019-08-27 13:59:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.52 Mbit/s
  95th percentile per-packet one-way delay: 69.981 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 55.88 Mbit/s
  95th percentile per-packet one-way delay: 64.721 ms
  Loss rate: 0.52%
-- Flow 2:
  Average throughput: 36.46 Mbit/s
  95th percentile per-packet one-way delay: 78.678 ms
  Loss rate: 2.04%
-- Flow 3:
  Average throughput: 46.39 Mbit/s
  95th percentile per-packet one-way delay: 59.517 ms
  Loss rate: 0.55%
Run 4: Report of FillP — Data Link

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

End at: 2019-08-27 13:49:12
Local clock offset: 0.201 ms
Remote clock offset: -3.786 ms

# Below is generated by plot.py at 2019-08-27 13:59:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 73.998 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 58.859 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 77.140 ms
Loss rate: 2.47%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 85.936 ms
Loss rate: 3.28%
Run 5: Report of FillP — Data Link
Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 11:44:43
End at: 2019-08-27 11:45:13
Local clock offset: -0.544 ms
Remote clock offset: -3.434 ms

# Below is generated by plot.py at 2019-08-27 13:59:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.70 Mbit/s
  95th percentile per-packet one-way delay: 62.612 ms
  Loss rate: 0.38%
-- Flow 1:
  Average throughput: 58.36 Mbit/s
  95th percentile per-packet one-way delay: 61.571 ms
  Loss rate: 0.24%
-- Flow 2:
  Average throughput: 38.69 Mbit/s
  95th percentile per-packet one-way delay: 60.802 ms
  Loss rate: 0.32%
-- Flow 3:
  Average throughput: 31.90 Mbit/s
  95th percentile per-packet one-way delay: 69.001 ms
  Loss rate: 1.25%
Run 1: Report of FillP-Sheep — Data Link
Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 12:14:11
End at: 2019-08-27 12:14:41
Local clock offset: -0.264 ms
Remote clock offset: -2.741 ms

# Below is generated by plot.py at 2019-08-27 13:59:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 52.682 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 43.94 Mbit/s
95th percentile per-packet one-way delay: 47.193 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 75.409 ms
Loss rate: 0.76%
Run 2: Report of FillP-Sheep — Data Link
Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 12:43:37
End at: 2019-08-27 12:44:07
Local clock offset: -0.396 ms
Remote clock offset: -2.149 ms

# Below is generated by plot.py at 2019-08-27 13:59:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.15 Mbit/s
95th percentile per-packet one-way delay: 65.519 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 59.335 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 45.06 Mbit/s
95th percentile per-packet one-way delay: 58.575 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 27.34 Mbit/s
95th percentile per-packet one-way delay: 96.979 ms
Loss rate: 0.80%
Run 3: Report of FillP-Sheep — Data Link
Run 4: Statistics of FillP-Sheep

End at: 2019-08-27 13:14:01
Local clock offset: -0.756 ms
Remote clock offset: -1.884 ms

# Below is generated by plot.py at 2019-08-27 14:00:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.47 Mbit/s
95th percentile per-packet one-way delay: 56.632 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 56.27 Mbit/s
95th percentile per-packet one-way delay: 49.809 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 43.74 Mbit/s
95th percentile per-packet one-way delay: 47.271 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 27.34 Mbit/s
95th percentile per-packet one-way delay: 109.182 ms
Loss rate: 0.97%
Run 4: Report of FillP-Sheep — Data Link
Run 5: Statistics of FillP-Sheep

End at: 2019-08-27 13:43:04
Local clock offset: 0.262 ms
Remote clock offset: -2.024 ms

# Below is generated by plot.py at 2019-08-27 14:00:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.58 Mbit/s
  95th percentile per-packet one-way delay: 60.935 ms
  Loss rate: 0.22%
  -- Flow 1:
  Average throughput: 55.86 Mbit/s
  95th percentile per-packet one-way delay: 62.009 ms
  Loss rate: 0.16%
  -- Flow 2:
  Average throughput: 37.88 Mbit/s
  95th percentile per-packet one-way delay: 61.082 ms
  Loss rate: 0.33%
  -- Flow 3:
  Average throughput: 40.68 Mbit/s
  95th percentile per-packet one-way delay: 53.000 ms
  Loss rate: 0.26%
Run 5: Report of FillP-Sheep — Data Link
Run 1: Statistics of Indigo

Start at: 2019-08-27 11:40:59
End at: 2019-08-27 11:41:29
Local clock offset: -0.578 ms
Remote clock offset: -3.28 ms

# Below is generated by plot.py at 2019-08-27 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.89 Mbit/s
95th percentile per-packet one-way delay: 29.291 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 24.387 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 29.456 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 26.906 ms
Loss rate: 0.32%
Run 1: Report of Indigo — Data Link

[Graph showing data link throughput and packet delay over time]
Run 2: Statistics of Indigo

Start at: 2019-08-27 12:10:23  
End at: 2019-08-27 12:10:53  
Local clock offset: -1.555 ms  
Remote clock offset: -1.77 ms

# Below is generated by plot.py at 2019-08-27 14:00:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.76 Mbit/s
95th percentile per-packet one-way delay: 28.918 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 23.925 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 36.35 Mbit/s
95th percentile per-packet one-way delay: 29.136 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 47.99 Mbit/s
95th percentile per-packet one-way delay: 22.510 ms
Loss rate: 0.30%
Run 2: Report of Indigo — Data Link

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

*Throughput (Mbps)*

- Flow 1 ingress (mean 56.82 Mbps)
- Flow 1 egress (mean 56.84 Mbps)
- Flow 2 ingress (mean 36.34 Mbps)
- Flow 2 egress (mean 36.35 Mbps)
- Flow 3 ingress (mean 48.02 Mbps)
- Flow 3 egress (mean 47.99 Mbps)

*Packet delay (ms)*

- Flow 1 (95th percentile 23.93 ms)
- Flow 2 (95th percentile 29.14 ms)
- Flow 3 (95th percentile 22.51 ms)
Run 3: Statistics of Indigo

Start at: 2019-08-27 12:39:50
End at: 2019-08-27 12:40:20
Local clock offset: -0.416 ms
Remote clock offset: -3.528 ms

# Below is generated by plot.py at 2019-08-27 14:01:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 30.372 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 25.497 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 48.22 Mbit/s
95th percentile per-packet one-way delay: 30.439 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 24.12 Mbit/s
95th percentile per-packet one-way delay: 27.374 ms
Loss rate: 0.32%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

End at: 2019-08-27 13:10:23
Local clock offset: -1.497 ms
Remote clock offset: -3.316 ms

# Below is generated by plot.py at 2019-08-27 14:01:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.81 Mbit/s
  95th percentile per-packet one-way delay: 29.353 ms
  Loss rate: 0.26%
-- Flow 1:
  Average throughput: 56.76 Mbit/s
  95th percentile per-packet one-way delay: 29.432 ms
  Loss rate: 0.17%
-- Flow 2:
  Average throughput: 48.38 Mbit/s
  95th percentile per-packet one-way delay: 24.599 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 24.10 Mbit/s
  95th percentile per-packet one-way delay: 29.455 ms
  Loss rate: 1.37%
Run 4: Report of Indigo — Data Link

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

Flow 1 ingress (mean 56.82 Mbit/s)
Flow 1 egress (mean 56.76 Mbit/s)
Flow 2 ingress (mean 48.36 Mbit/s)
Flow 2 egress (mean 48.38 Mbit/s)
Flow 3 ingress (mean 24.37 Mbit/s)
Flow 3 egress (mean 24.10 Mbit/s)
Run 5: Statistics of Indigo

Start at: 2019-08-27 13:38:54
Local clock offset: 0.46 ms
Remote clock offset: 1.364 ms

# Below is generated by plot.py at 2019-08-27 14:01:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.70 Mbit/s
  95th percentile per-packet one-way delay: 28.103 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 56.72 Mbit/s
  95th percentile per-packet one-way delay: 25.242 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 36.49 Mbit/s
  95th percentile per-packet one-way delay: 28.442 ms
  Loss rate: 0.34%
-- Flow 3:
  Average throughput: 48.01 Mbit/s
  95th percentile per-packet one-way delay: 23.637 ms
  Loss rate: 0.29%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 11:49:37
End at: 2019-08-27 11:50:07
Local clock offset: -0.861 ms
Remote clock offset: -2.335 ms

# Below is generated by plot.py at 2019-08-27 14:01:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.51 Mbit/s
95th percentile per-packet one-way delay: 28.818 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 30.074 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 24.838 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 25.437 ms
Loss rate: 0.42%
Run 1: Report of Indigo-MusesC3 — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 58.40 Mbps)
  - Flow 1 egress (mean 58.41 Mbps)
  - Flow 2 ingress (mean 31.57 Mbps)
  - Flow 2 egress (mean 31.56 Mbps)
  - Flow 3 ingress (mean 18.46 Mbps)
  - Flow 3 egress (mean 18.44 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 30.07 ms)
  - Flow 2 (95th percentile 24.84 ms)
  - Flow 3 (95th percentile 25.44 ms)
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:19:09
End at: 2019-08-27 12:19:39
Local clock offset: 0.084 ms
Remote clock offset: -4.08 ms

# Below is generated by plot.py at 2019-08-27 14:01:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.88 Mbit/s
95th percentile per-packet one-way delay: 28.816 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.89 Mbit/s
95th percentile per-packet one-way delay: 23.745 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 30.714 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 12.67 Mbit/s
95th percentile per-packet one-way delay: 26.325 ms
Loss rate: 0.63%
Run 2: Report of Indigo-MusesC3 — Data Link

![Graph of Throughput](image1)

- **Throughput (Mbps)**
  - X-axis: Time (s)
  - Y-axis: Throughput (Mbps)
  - Legend:
    - Flow 1 ingress (mean 43.89 Mbps/s)
    - Flow 1 egress (mean 43.89 Mbps/s)
    - Flow 2 ingress (mean 38.81 Mbps/s)
    - Flow 2 egress (mean 38.82 Mbps/s)
    - Flow 3 ingress (mean 12.68 Mbps/s)
    - Flow 3 egress (mean 12.67 Mbps/s)

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

- **Per-packet one way delay (ms)**
  - X-axis: Time (s)
  - Y-axis: Delay (ms)
  - Legend:
    - Flow 1 (95th percentile 23.75 ms)
    - Flow 2 (95th percentile 30.71 ms)
    - Flow 3 (95th percentile 26.32 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:48:49
End at: 2019-08-27 12:49:19
Local clock offset: -0.55 ms
Remote clock offset: -2.927 ms

# Below is generated by plot.py at 2019-08-27 14:01:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 33.647 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 42.53 Mbit/s
95th percentile per-packet one-way delay: 31.750 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 35.781 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 35.902 ms
Loss rate: 0.35%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 13:18:19
End at: 2019-08-27 13:18:49
Local clock offset: -0.561 ms
Remote clock offset: -3.272 ms

# Below is generated by plot.py at 2019-08-27 14:01:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.58 Mbit/s
  95th percentile per-packet one-way delay: 28.860 ms
  Loss rate: 0.05%
-- Flow 1:
  Average throughput: 59.10 Mbit/s
  95th percentile per-packet one-way delay: 29.411 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 25.72 Mbit/s
  95th percentile per-packet one-way delay: 26.444 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 19.02 Mbit/s
  95th percentile per-packet one-way delay: 29.343 ms
  Loss rate: 0.30%
Run 4: Report of Indigo-MusesC3 — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 59.06 Mbps)
  - Flow 1 egress (mean 59.10 Mbps)
  - Flow 2 ingress (mean 25.71 Mbps)
  - Flow 2 egress (mean 25.72 Mbps)
  - Flow 3 ingress (mean 19.62 Mbps)
  - Flow 3 egress (mean 19.02 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 29.41 ms)
  - Flow 2 (95th percentile 26.44 ms)
  - Flow 3 (95th percentile 29.34 ms)
Run 5: Statistics of Indigo-MusesC3

Local clock offset: -0.833 ms
Remote clock offset: -2.071 ms

# Below is generated by plot.py at 2019-08-27 14:01:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.27 Mbit/s
95th percentile per-packet one-way delay: 27.036 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 40.13 Mbit/s
95th percentile per-packet one-way delay: 21.268 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.61 Mbit/s
95th percentile per-packet one-way delay: 28.918 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 24.773 ms
Loss rate: 0.47%
Run 5: Report of Indigo-MusesC3 — Data Link

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

- **Flow 1**: Ingress (mean 40.12 Mbit/s), Egress (mean 40.13 Mbit/s)
- **Flow 2**: Ingress (mean 42.58 Mbit/s), Egress (mean 42.61 Mbit/s)
- **Flow 3**: Ingress (mean 20.22 Mbit/s), Egress (mean 20.24 Mbit/s)
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:29:43
End at: 2019-08-27 11:30:13
Local clock offset: 0.023 ms
Remote clock offset: -4.318 ms

# Below is generated by plot.py at 2019-08-27 14:01:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.05 Mbit/s
  95th percentile per-packet one-way delay: 90.408 ms
  Loss rate: 1.13%
-- Flow 1:
  Average throughput: 56.96 Mbit/s
  95th percentile per-packet one-way delay: 58.118 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 38.66 Mbit/s
  95th percentile per-packet one-way delay: 114.651 ms
  Loss rate: 1.75%
-- Flow 3:
  Average throughput: 31.28 Mbit/s
  95th percentile per-packet one-way delay: 62.386 ms
  Loss rate: 3.19%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:59:29
End at: 2019-08-27 11:59:59
Local clock offset: ~1.261 ms
Remote clock offset: ~3.949 ms

# Below is generated by plot.py at 2019-08-27 14:02:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.15 Mbit/s
95th percentile per-packet one-way delay: 47.056 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 38.950 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 47.703 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 40.68 Mbit/s
95th percentile per-packet one-way delay: 66.322 ms
Loss rate: 0.92%
Run 2: Report of Indigo-MusesC5 — Data Link

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

- Flow 1 ingress (mean 56.47 Mb/s)
- Flow 1 egress (mean 56.43 Mb/s)
- Flow 2 ingress (mean 31.35 Mb/s)
- Flow 2 egress (mean 31.26 Mb/s)
- Flow 3 ingress (mean 40.98 Mb/s)
- Flow 3 egress (mean 40.68 Mb/s)

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

- Flow 1 (95th percentile 38.95 ms)
- Flow 2 (95th percentile 47.70 ms)
- Flow 3 (95th percentile 66.32 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:28:54
End at: 2019-08-27 12:29:24
Local clock offset: -1.152 ms
Remote clock offset: -2.541 ms

# Below is generated by plot.py at 2019-08-27 14:02:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 57.250 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 47.74 Mbit/s
95th percentile per-packet one-way delay: 52.391 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 62.126 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 41.35 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 1.27%
Run 3: Report of Indigo-MusesC5 — Data Link
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:58:46
End at: 2019-08-27 12:59:16
Local clock offset: -0.513 ms
Remote clock offset: -1.748 ms

# Below is generated by plot.py at 2019-08-27 14:02:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.23 Mbit/s
95th percentile per-packet one-way delay: 49.475 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 63.47 Mbit/s
95th percentile per-packet one-way delay: 50.202 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 27.58 Mbit/s
95th percentile per-packet one-way delay: 42.194 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 0.77%
Run 4: Report of Indigo-MusesC5 — Data Link

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

- Flow 1 ingress (mean 63.80 Mbit/s)
- Flow 1 egress (mean 63.47 Mbit/s)
- Flow 2 ingress (mean 27.67 Mbit/s)
- Flow 2 egress (mean 27.58 Mbit/s)
- Flow 3 ingress (mean 41.92 Mbit/s)
- Flow 3 egress (mean 41.69 Mbit/s)

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

- Flow 1 (95th percentile 50.20 ms)
- Flow 2 (95th percentile 42.19 ms)
- Flow 3 (95th percentile 51.52 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 13:28:08
Local clock offset: -0.081 ms
Remote clock offset: -2.291 ms

# Below is generated by plot.py at 2019-08-27 14:02:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 61.279 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 66.530 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 39.74 Mbit/s
95th percentile per-packet one-way delay: 42.335 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 56.120 ms
Loss rate: 1.51%
Run 5: Report of Indigo-MusesC5 — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, with legends indicating mean values for each flow's ingress and egress.]
Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 11:52:05
End at: 2019-08-27 11:52:35
Local clock offset: -0.55 ms
Remote clock offset: -4.527 ms

# Below is generated by plot.py at 2019-08-27 14:02:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.51 Mbit/s
  95th percentile per-packet one-way delay: 30.701 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 50.15 Mbit/s
  95th percentile per-packet one-way delay: 29.251 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 38.26 Mbit/s
  95th percentile per-packet one-way delay: 29.044 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 29.47 Mbit/s
  95th percentile per-packet one-way delay: 41.752 ms
  Loss rate: 0.42%
Run 1: Report of Indigo-MusesD — Data Link

![Graph of throughput and delay over time]

**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 50.11 Mbit/s)**
- **Flow 1 egress (mean 50.15 Mbit/s)**
- **Flow 2 ingress (mean 38.24 Mbit/s)**
- **Flow 2 egress (mean 38.26 Mbit/s)**
- **Flow 3 ingress (mean 29.50 Mbit/s)**
- **Flow 3 egress (mean 29.47 Mbit/s)**

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

- **Flow 1 (95th percentile 29.25 ms)**
- **Flow 2 (95th percentile 29.04 ms)**
- **Flow 3 (95th percentile 41.75 ms)**
Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:21:33
End at: 2019-08-27 12:22:03
Local clock offset: -1.022 ms
Remote clock offset: -3.47 ms

# Below is generated by plot.py at 2019-08-27 14:02:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 92.928 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 28.699 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 121.105 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 52.745 ms
Loss rate: 0.49%
Run 2: Report of Indigo-MusesD — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 48.38 Mbps)
Flow 1 egress (mean 48.39 Mbps)
Flow 2 ingress (mean 51.39 Mbps)
Flow 2 egress (mean 50.67 Mbps)
Flow 3 ingress (mean 26.34 Mbps)
Flow 3 egress (mean 26.29 Mbps)

Per-packet one way delay (ms)

Flow 1 (95th percentile 28.70 ms)
Flow 2 (95th percentile 121.11 ms)
Flow 3 (95th percentile 52.74 ms)

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Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:51:33
End at: 2019-08-27 12:52:03
Local clock offset: -0.142 ms
Remote clock offset: -2.298 ms

# Below is generated by plot.py at 2019-08-27 14:02:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 83.24 Mbit/s
  95th percentile per-packet one-way delay: 31.113 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 47.79 Mbit/s
  95th percentile per-packet one-way delay: 29.234 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 41.94 Mbit/s
  95th percentile per-packet one-way delay: 32.748 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 31.93 Mbit/s
  95th percentile per-packet one-way delay: 33.913 ms
  Loss rate: 0.33%
Run 3: Report of Indigo-MusesD — Data Link

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

Flow 1 ingress (mean 47.78 Mbit/s)  
Flow 1 egress (mean 47.79 Mbit/s)  
Flow 2 ingress (mean 41.89 Mbit/s)  
Flow 2 egress (mean 41.94 Mbit/s)  
Flow 3 ingress (mean 31.97 Mbit/s)  
Flow 3 egress (mean 31.93 Mbit/s)

Flow 1 (95th percentile 29.23 ms)  
Flow 2 (95th percentile 32.75 ms)  
Flow 3 (95th percentile 33.91 ms)
Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 13:20:51
End at: 2019-08-27 13:21:21
Local clock offset: -1.315 ms
Remote clock offset: -2.751 ms

# Below is generated by plot.py at 2019-08-27 14:03:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.10 Mbit/s
  95th percentile per-packet one-way delay: 111.919 ms
  Loss rate: 1.44%
-- Flow 1:
  Average throughput: 74.00 Mbit/s
  95th percentile per-packet one-way delay: 125.530 ms
  Loss rate: 1.79%
-- Flow 2:
  Average throughput: 22.35 Mbit/s
  95th percentile per-packet one-way delay: 33.394 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 26.10 Mbit/s
  95th percentile per-packet one-way delay: 49.751 ms
  Loss rate: 0.23%
Run 4: Report of Indigo-MusesD — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 75.28 Mbit/s)  Flow 1 egress (mean 74.00 Mbit/s)
Flow 2 ingress (mean 22.36 Mbit/s)  Flow 2 egress (mean 22.35 Mbit/s)
Flow 3 ingress (mean 26.07 Mbit/s)  Flow 3 egress (mean 26.10 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 125.53 ms)  Flow 2 (95th percentile 33.39 ms)  Flow 3 (95th percentile 49.75 ms)
Run 5: Statistics of Indigo-MusesD

End at: 2019-08-27 13:50:26
Local clock offset: -1.381 ms
Remote clock offset: -2.251 ms

# Below is generated by plot.py at 2019-08-27 14:03:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 28.311 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 45.48 Mbit/s
95th percentile per-packet one-way delay: 28.443 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.69 Mbit/s
95th percentile per-packet one-way delay: 27.506 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 26.99 Mbit/s
95th percentile per-packet one-way delay: 30.189 ms
Loss rate: 0.59%
Run 5: Report of Indigo-MusesD — Data Link

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

- **Flow 1 ingress (mean 45.48 Mbps/s)**
- **Flow 1 egress (mean 45.48 Mbps/s)**
- **Flow 2 ingress (mean 36.65 Mbps/s)**
- **Flow 2 egress (mean 36.69 Mbps/s)**
- **Flow 3 ingress (mean 27.05 Mbps/s)**
- **Flow 3 egress (mean 26.99 Mbps/s)**

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

- **Flow 1 (95th percentile 28.44 ms)**
- **Flow 2 (95th percentile 27.51 ms)**
- **Flow 3 (95th percentile 30.19 ms)**

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Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 11:45:57
End at: 2019-08-27 11:46:27
Local clock offset: -0.663 ms
Remote clock offset: -2.683 ms

# Below is generated by plot.py at 2019-08-27 14:03:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 97.333 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 61.95 Mbit/s
95th percentile per-packet one-way delay: 32.518 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.37 Mbit/s
95th percentile per-packet one-way delay: 120.833 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 133.288 ms
Loss rate: 3.91%
Run 1: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 61.96 Mbit/s)
- Flow 1 egress (mean 61.95 Mbit/s)
- Flow 2 ingress (mean 41.04 Mbit/s)
- Flow 2 egress (mean 40.37 Mbit/s)
- Flow 3 ingress (mean 25.34 Mbit/s)
- Flow 3 egress (mean 24.44 Mbit/s)

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

- Flow 1 (95th percentile 32.52 ms)
- Flow 2 (95th percentile 120.83 ms)
- Flow 3 (95th percentile 133.29 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 12:15:23
End at: 2019-08-27 12:15:53
Local clock offset: -0.765 ms
Remote clock offset: -2.438 ms

# Below is generated by plot.py at 2019-08-27 14:03:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 81.018 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 61.12 Mbit/s
95th percentile per-packet one-way delay: 66.770 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 41.00 Mbit/s
95th percentile per-packet one-way delay: 93.241 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 26.89 Mbit/s
95th percentile per-packet one-way delay: 107.850 ms
Loss rate: 1.99%
Run 2: Report of Indigo-MusesT — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 61.33 Mbps)
- Flow 1 egress (mean 61.12 Mbps)
- Flow 2 ingress (mean 41.39 Mbps)
- Flow 2 egress (mean 41.00 Mbps)
- Flow 3 ingress (mean 27.34 Mbps)
- Flow 3 egress (mean 26.89 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 66.77 ms)
- Flow 2 (95th percentile 93.24 ms)
- Flow 3 (95th percentile 107.85 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 12:45:00
End at: 2019-08-27 12:45:30
Local clock offset: -1.019 ms
Remote clock offset: -3.714 ms

# Below is generated by plot.py at 2019-08-27 14:03:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.34 Mbit/s
  95th percentile per-packet one-way delay: 92.138 ms
  Loss rate: 0.94%
-- Flow 1:
  Average throughput: 61.00 Mbit/s
  95th percentile per-packet one-way delay: 75.923 ms
  Loss rate: 0.65%
-- Flow 2:
  Average throughput: 40.58 Mbit/s
  95th percentile per-packet one-way delay: 107.697 ms
  Loss rate: 1.36%
-- Flow 3:
  Average throughput: 28.01 Mbit/s
  95th percentile per-packet one-way delay: 95.451 ms
  Loss rate: 1.84%
Run 3: Report of Indigo-MusesT — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 61.34 Mbit/s)  
Flow 1 egress (mean 61.00 Mbit/s)  
Flow 2 ingress (mean 41.67 Mbit/s)  
Flow 2 egress (mean 40.55 Mbit/s)  
Flow 3 ingress (mean 28.45 Mbit/s)  
Flow 3 egress (mean 28.01 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 75.92 ms)  
Flow 2 (95th percentile 107.70 ms)  
Flow 3 (95th percentile 95.45 ms)
Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 13:14:42
End at: 2019-08-27 13:15:12
Local clock offset: -0.307 ms
Remote clock offset: -3.603 ms

# Below is generated by plot.py at 2019-08-27 14:03:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.59 Mbit/s
  95th percentile per-packet one-way delay: 91.480 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 63.01 Mbit/s
  95th percentile per-packet one-way delay: 39.905 ms
  Loss rate: 0.17%
-- Flow 2:
  Average throughput: 40.04 Mbit/s
  95th percentile per-packet one-way delay: 118.326 ms
  Loss rate: 1.30%
-- Flow 3:
  Average throughput: 22.90 Mbit/s
  95th percentile per-packet one-way delay: 151.026 ms
  Loss rate: 3.42%
Run 4: Report of Indigo-MusesT — Data Link

![Graph of Throughput and Delay](image)

**Throughput** (Mbps):
- Flow 1 ingress (mean 63.06 Mbps)
- Flow 1 egress (mean 63.01 Mbps)
- Flow 2 ingress (mean 40.52 Mbps)
- Flow 2 egress (mean 40.04 Mbps)
- Flow 3 ingress (mean 23.62 Mbps)
- Flow 3 egress (mean 22.90 Mbps)

**Per-packet one-way delay (ms)**:
- Flow 1 (95th percentile 39.91 ms)
- Flow 2 (95th percentile 118.33 ms)
- Flow 3 (95th percentile 151.03 ms)
Run 5: Statistics of Indigo-MuseST

Start at: 2019-08-27 13:43:45
End at: 2019-08-27 13:44:15
Local clock offset: -0.715 ms
Remote clock offset: -4.215 ms

# Below is generated by plot.py at 2019-08-27 14:03:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 103.041 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 60.09 Mbit/s
95th percentile per-packet one-way delay: 90.518 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 128.269 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 34.25 Mbit/s
95th percentile per-packet one-way delay: 33.406 ms
Loss rate: 0.49%
Run 5: Report of Indigo-MusesT — Data Link
Run 1: Statistics of LEDBAT

Start at: 2019-08-27 11:47:09
End at: 2019-08-27 11:47:39
Local clock offset: -0.624 ms
Remote clock offset: -3.846 ms

# Below is generated by plot.py at 2019-08-27 14:03:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 30.969 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 29.529 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 33.40 Mbit/s
95th percentile per-packet one-way delay: 30.505 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 40.35 Mbit/s
95th percentile per-packet one-way delay: 32.777 ms
Loss rate: 0.27%
Run 1: Report of LEDBAT — Data Link

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

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

Start at: 2019-08-27 12:16:38
End at: 2019-08-27 12:17:08
Local clock offset: ~0.752 ms
Remote clock offset: ~1.974 ms

# Below is generated by plot.py at 2019-08-27 14:03:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 31.362 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 46.82 Mbit/s
95th percentile per-packet one-way delay: 31.319 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 43.89 Mbit/s
95th percentile per-packet one-way delay: 29.277 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 33.526 ms
Loss rate: 0.30%
Run 2: Report of LEDBAT — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, with annotations for flow characteristics and mean throughput values.]
Run 3: Statistics of LEDBAT

Start at: 2019-08-27 12:46:15
End at: 2019-08-27 12:46:45
Local clock offset: -0.967 ms
Remote clock offset: -3.008 ms

# Below is generated by plot.py at 2019-08-27 14:04:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.15 Mbit/s
  95th percentile per-packet one-way delay: 32.527 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 49.15 Mbit/s
  95th percentile per-packet one-way delay: 32.298 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 36.08 Mbit/s
  95th percentile per-packet one-way delay: 33.638 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 42.06 Mbit/s
  95th percentile per-packet one-way delay: 31.899 ms
  Loss rate: 0.38%
Run 3: Report of LEDBAT — Data Link

**Throughput (Mbps)**

- Flow 1 ingress (mean 49.15 Mbps)
- Flow 1 egress (mean 49.15 Mbps)
- Flow 2 ingress (mean 36.68 Mbps)
- Flow 2 egress (mean 36.68 Mbps)
- Flow 3 ingress (mean 42.12 Mbps)
- Flow 3 egress (mean 42.06 Mbps)

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

- Flow 1 (95th percentile 32.30 ms)
- Flow 2 (95th percentile 33.64 ms)
- Flow 3 (95th percentile 31.90 ms)
Run 4: Statistics of LEDBAT

Start at: 2019-08-27 13:15:56
End at: 2019-08-27 13:16:26
Local clock offset: -0.501 ms
Remote clock offset: -3.704 ms

# Below is generated by plot.py at 2019-08-27 14:04:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 31.281 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 21.663 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 29.154 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 42.94 Mbit/s
95th percentile per-packet one-way delay: 34.852 ms
Loss rate: 0.43%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2019-08-27 13:44:59
End at: 2019-08-27 13:45:29
Local clock offset: -0.684 ms
Remote clock offset: -3.359 ms

# Below is generated by plot.py at 2019-08-27 14:04:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 31.856 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 54.94 Mbit/s
95th percentile per-packet one-way delay: 29.055 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.32 Mbit/s
95th percentile per-packet one-way delay: 34.528 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 30.69 Mbit/s
95th percentile per-packet one-way delay: 32.124 ms
Loss rate: 0.26%
Run 5: Report of LEDBAT — Data Link
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 11:54:40
End at: 2019-08-27 11:55:10
Local clock offset: -1.49 ms
Remote clock offset: -2.476 ms

# Below is generated by plot.py at 2019-08-27 14:04:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.47 Mbit/s
95th percentile per-packet one-way delay: 21.667 ms
Loss rate: 0.02%

-- Flow 1:
Average throughput: 47.54 Mbit/s
95th percentile per-packet one-way delay: 20.611 ms
Loss rate: 0.01%

-- Flow 2:
Average throughput: 32.28 Mbit/s
95th percentile per-packet one-way delay: 23.642 ms
Loss rate: 0.05%

-- Flow 3:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 18.338 ms
Loss rate: 0.20%
Run 1: Report of Muses Decision Tree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 12:24:06
End at: 2019-08-27 12:24:36
Local clock offset: -1.481 ms
Remote clock offset: -1.922 ms

# Below is generated by plot.py at 2019-08-27 14:04:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.46 Mbit/s
95th percentile per-packet one-way delay: 21.548 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 21.80 Mbit/s
95th percentile per-packet one-way delay: 18.501 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 22.222 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 26.028 ms
Loss rate: 0.24%
Run 2: Report of Muses.DecisionTree — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 21.80 Mbps)
- Flow 1 egress (mean 21.80 Mbps)
- Flow 2 ingress (mean 41.72 Mbps)
- Flow 2 egress (mean 41.77 Mbps)
- Flow 3 ingress (mean 9.55 Mbps)
- Flow 3 egress (mean 9.54 Mbps)

Graph 2: Per-packet round trip delay (ms)
- Flow 1 (95th percentile 18.50 ms)
- Flow 2 (95th percentile 22.22 ms)
- Flow 3 (95th percentile 26.03 ms)
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 12:54:03
End at: 2019-08-27 12:54:33
Local clock offset: -0.15 ms
Remote clock offset: -2.346 ms

# Below is generated by plot.py at 2019-08-27 14:04:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.29 Mbit/s
95th percentile per-packet one-way delay: 24.360 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 26.52 Mbit/s
95th percentile per-packet one-way delay: 20.883 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 42.22 Mbit/s
95th percentile per-packet one-way delay: 24.834 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 12.11 Mbit/s
95th percentile per-packet one-way delay: 50.662 ms
Loss rate: 0.15%
Run 3: Report of Muses_DecomisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Local clock offset: -0.234 ms  
Remote clock offset: -1.757 ms

# Below is generated by plot.py at 2019-08-27 14:04:12  
# Datalink statistics
-- Total of 3 flows:  
Average throughput: 48.48 Mbit/s  
95th percentile per-packet one-way delay: 20.481 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 32.98 Mbit/s  
95th percentile per-packet one-way delay: 19.451 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 17.83 Mbit/s  
95th percentile per-packet one-way delay: 20.361 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 11.64 Mbit/s  
95th percentile per-packet one-way delay: 23.872 ms  
Loss rate: 0.16%
Run 5: Statistics of Muses\_DecisionTree

End at: 2019-08-27 13:53:05
Local clock offset: -0.539 ms
Remote clock offset: -3.752 ms

# Below is generated by plot.py at 2019-08-27 14:04:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 70.15 Mbit/s
  95th percentile per-packet one-way delay: 26.744 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 46.32 Mbit/s
  95th percentile per-packet one-way delay: 26.984 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 29.91 Mbit/s
  95th percentile per-packet one-way delay: 23.905 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 12.83 Mbit/s
  95th percentile per-packet one-way delay: 41.599 ms
  Loss rate: 0.28%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 11:42:14
End at: 2019-08-27 11:42:44
Local clock offset: -1.267 ms
Remote clock offset: -3.537 ms

# Below is generated by plot.py at 2019-08-27 14:04:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.97 Mbit/s
95th percentile per-packet one-way delay: 27.584 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 53.04 Mbit/s
95th percentile per-packet one-way delay: 25.944 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 29.625 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 16.24 Mbit/s
95th percentile per-packet one-way delay: 26.305 ms
Loss rate: 0.05%
Run 1: Report of Muses_DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 12:11:45
End at: 2019-08-27 12:12:15
Local clock offset: -0.439 ms
Remote clock offset: -2.518 ms

# Below is generated by plot.py at 2019-08-27 14:04:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.53 Mbit/s
95th percentile per-packet one-way delay: 28.950 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 29.528 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 28.199 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 12.18 Mbit/s
95th percentile per-packet one-way delay: 25.508 ms
Loss rate: 0.10%
Run 2: Report of Muses_DecisionTreeH0 — Data Link

Graph 1: Throughput (Mbps) vs Time (s)
- Flow 1 ingress (mean 50.13 Mbps)
- Flow 1 egress (mean 50.16 Mbps)
- Flow 2 ingress (mean 34.05 Mbps)
- Flow 2 egress (mean 34.09 Mbps)
- Flow 3 ingress (mean 12.18 Mbps)
- Flow 3 egress (mean 12.18 Mbps)

Graph 2: Per-packet one-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 29.53 ms)
- Flow 2 (95th percentile 28.20 ms)
- Flow 3 (95th percentile 25.51 ms)
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 12:41:08
End at: 2019-08-27 12:41:38
Local clock offset: -1.11 ms
Remote clock offset: -1.465 ms

# Below is generated by plot.py at 2019-08-27 14:04:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 63.68 Mbit/s
  95th percentile per-packet one-way delay: 21.582 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 43.00 Mbit/s
  95th percentile per-packet one-way delay: 21.170 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 24.65 Mbit/s
  95th percentile per-packet one-way delay: 23.835 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 13.74 Mbit/s
  95th percentile per-packet one-way delay: 20.585 ms
  Loss rate: 0.73%
Run 3: Report of Muses_DecisionTreeH0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 13:11:09
End at: 2019-08-27 13:11:39
Local clock offset: -0.606 ms
Remote clock offset: -2.377 ms

# Below is generated by plot.py at 2019-08-27 14:05:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.05 Mbit/s
95th percentile per-packet one-way delay: 32.380 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 28.579 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 35.702 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 15.93 Mbit/s
95th percentile per-packet one-way delay: 36.948 ms
Loss rate: 0.18%
Run 4: Report of Muses DecisionTreeH0 — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 49.91 Mbps)
  - Flow 2 ingress (mean 33.31 Mbps)
  - Flow 3 ingress (mean 15.92 Mbps)
  - Flow 1 egress (mean 49.94 Mbps)
  - Flow 2 egress (mean 33.31 Mbps)
  - Flow 3 egress (mean 15.93 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 28.58 ms)
  - Flow 2 (95th percentile 35.70 ms)
  - Flow 3 (95th percentile 36.95 ms)
Run 5: Statistics of Muses\_DecisionTreeHO

Start at: 2019-08-27 13:40:09  
End at: 2019-08-27 13:40:39  
Local clock offset: -0.807 ms  
Remote clock offset: -3.293 ms

# Below is generated by plot.py at 2019-08-27 14:05:02  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 74.02 Mbit/s  
95th percentile per-packet one-way delay: 27.816 ms  
Loss rate: 0.05%

-- Flow 1:
Average throughput: 45.91 Mbit/s  
95th percentile per-packet one-way delay: 22.354 ms  
Loss rate: 0.01%

-- Flow 2:
Average throughput: 34.19 Mbit/s  
95th percentile per-packet one-way delay: 32.307 ms  
Loss rate: 0.09%

-- Flow 3:
Average throughput: 17.06 Mbit/s  
95th percentile per-packet one-way delay: 27.124 ms  
Loss rate: 0.23%
Run 5: Report of Muses_DecisionTreeH0 — Data Link
Run 1: Statistics of Muses\_DecisionTreeRO

End at: 2019-08-27 11:28:58  
Local clock offset: -0.546 ms  
Remote clock offset: -2.949 ms

# Below is generated by plot.py at 2019-08-27 14:05:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.76 Mbit/s  
95th percentile per-packet one-way delay: 24.234 ms  
Loss rate: 0.03%

-- Flow 1:  
Average throughput: 48.56 Mbit/s  
95th percentile per-packet one-way delay: 23.454 ms  
Loss rate: 0.01%

-- Flow 2:  
Average throughput: 27.03 Mbit/s  
95th percentile per-packet one-way delay: 22.176 ms  
Loss rate: 0.02%

-- Flow 3:  
Average throughput: 13.51 Mbit/s  
95th percentile per-packet one-way delay: 48.869 ms  
Loss rate: 0.31%
Run 1: Report of Muses_DecisionTreeR0 — Data Link

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

Legend:
- Flow 1 ingress (mean 48.55 Mbit/s)
- Flow 1 egress (mean 48.56 Mbit/s)
- Flow 2 ingress (mean 26.99 Mbit/s)
- Flow 2 egress (mean 27.03 Mbit/s)
- Flow 3 ingress (mean 13.51 Mbit/s)
- Flow 3 egress (mean 13.51 Mbit/s)
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 11:58:17
End at: 2019-08-27 11:58:47
Local clock offset: -0.604 ms
Remote clock offset: -3.63 ms

# Below is generated by plot.py at 2019-08-27 14:05:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.31 Mbit/s
95th percentile per-packet one-way delay: 27.591 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 52.45 Mbit/s
95th percentile per-packet one-way delay: 26.983 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 26.888 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 16.48 Mbit/s
95th percentile per-packet one-way delay: 69.751 ms
Loss rate: 0.09%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

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

- **Flow 1 ingress** (mean 52.42 Mbit/s)
- **Flow 1 egress** (mean 52.45 Mbit/s)
- **Flow 2 ingress** (mean 20.53 Mbit/s)
- **Flow 2 egress** (mean 20.55 Mbit/s)
- **Flow 3 ingress** (mean 16.45 Mbit/s)
- **Flow 3 egress** (mean 16.48 Mbit/s)

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

- **Flow 1 (95th percentile 26.98 ms)**
- **Flow 2 (95th percentile 26.89 ms)**
- **Flow 3 (95th percentile 69.75 ms)**

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Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 12:27:39
End at: 2019-08-27 12:28:09
Local clock offset: -6.734 ms
Remote clock offset: -7.226 ms

# Below is generated by plot.py at 2019-08-27 14:05:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.88 Mbit/s
95th percentile per-packet one-way delay: 24.930 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 24.848 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 23.246 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 12.49 Mbit/s
95th percentile per-packet one-way delay: 34.374 ms
Loss rate: 0.24%
Run 3: Report of Muses_DecisionTreeR0 — Data Link

![Graph of throughput over time](image1)

- **Flow 1 ingress (mean 51.60 Mbit/s)**
- **Flow 1 egress (mean 51.64 Mbit/s)**
- **Flow 2 ingress (mean 21.57 Mbit/s)**
- **Flow 2 egress (mean 21.59 Mbit/s)**
- **Flow 3 ingress (mean 12.50 Mbit/s)**
- **Flow 3 egress (mean 12.49 Mbit/s)**

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

- **Flow 1 (95th percentile 24.85 ms)**
- **Flow 2 (95th percentile 23.25 ms)**
- **Flow 3 (95th percentile 34.37 ms)**
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 12:57:37
End at: 2019-08-27 12:58:07
Local clock offset: -0.178 ms
Remote clock offset: -1.672 ms

# Below is generated by plot.py at 2019-08-27 14:05:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 26.408 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 19.835 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 27.198 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 24.378 ms
Loss rate: 0.22%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 13:26:56
End at: 2019-08-27 13:27:26
Local clock offset: -0.336 ms
Remote clock offset: -2.632 ms

# Below is generated by plot.py at 2019-08-27 14:05:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.64 Mbit/s
95th percentile per-packet one-way delay: 23.581 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 48.86 Mbit/s
95th percentile per-packet one-way delay: 23.383 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 25.38 Mbit/s
95th percentile per-packet one-way delay: 23.971 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 24.383 ms
Loss rate: 0.00%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

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

- Flow 1 ingress (mean 48.82 Mbit/s)
- Flow 1 egress (mean 48.86 Mbit/s)
- Flow 2 ingress (mean 25.35 Mbit/s)
- Flow 2 egress (mean 25.38 Mbit/s)
- Flow 3 ingress (mean 9.46 Mbit/s)
- Flow 3 egress (mean 9.46 Mbit/s)

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

- Flow 1 (95th percentile 23.38 ms)
- Flow 2 (95th percentile 23.97 ms)
- Flow 3 (95th percentile 24.38 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 11:37:23
End at: 2019-08-27 11:37:53
Local clock offset: -0.257 ms
Remote clock offset: -4.616 ms

# Below is generated by plot.py at 2019-08-27 14:06:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.30 Mbit/s
95th percentile per-packet one-way delay: 1634.704 ms
Loss rate: 21.46%
-- Flow 1:
Average throughput: 57.62 Mbit/s
95th percentile per-packet one-way delay: 1653.084 ms
Loss rate: 25.08%
-- Flow 2:
Average throughput: 34.12 Mbit/s
95th percentile per-packet one-way delay: 1331.049 ms
Loss rate: 22.10%
-- Flow 3:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 29.978 ms
Loss rate: 0.32%
Run 1: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 76.81 Mbit/s)
- Flow 1 egress (mean 57.62 Mbit/s)
- Flow 2 ingress (mean 43.75 Mbit/s)
- Flow 2 egress (mean 34.12 Mbit/s)
- Flow 3 ingress (mean 42.55 Mbit/s)
- Flow 3 egress (mean 42.52 Mbit/s)

- Flow 1 (95th percentile 1653.08 ms)
- Flow 2 (95th percentile 1331.05 ms)
- Flow 3 (95th percentile 29.98 ms)
Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 12:06:52
End at: 2019-08-27 12:07:22
Local clock offset: 0.112 ms
Remote clock offset: -3.654 ms

# Below is generated by plot.py at 2019-08-27 14:06:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.67 Mbit/s
  95th percentile per-packet one-way delay: 2122.235 ms
  Loss rate: 10.49%
-- Flow 1:
  Average throughput: 59.19 Mbit/s
  95th percentile per-packet one-way delay: 2149.951 ms
  Loss rate: 10.33%
-- Flow 2:
  Average throughput: 38.06 Mbit/s
  95th percentile per-packet one-way delay: 2041.518 ms
  Loss rate: 13.20%
-- Flow 3:
  Average throughput: 30.91 Mbit/s
  95th percentile per-packet one-way delay: 452.443 ms
  Loss rate: 4.01%
Run 2: Report of PCC-Allegro — Data Link

![Graph 1](Image 134x428 to 477x642)

- Flow 1 ingress (mean 65.96 Mbit/s)
- Flow 1 egress (mean 59.19 Mbit/s)
- Flow 2 ingress (mean 43.79 Mbit/s)
- Flow 2 egress (mean 38.06 Mbit/s)
- Flow 3 ingress (mean 32.12 Mbit/s)
- Flow 3 egress (mean 30.91 Mbit/s)

![Graph 2](Image 134x221 to 477x403)

- Flow 1 (95th percentile 2149.95 ms)
- Flow 2 (95th percentile 2041.52 ms)
- Flow 3 (95th percentile 452.44 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 12:36:18
End at: 2019-08-27 12:36:48
Local clock offset: -0.624 ms
Remote clock offset: -3.618 ms

# Below is generated by plot.py at 2019-08-27 14:06:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.97 Mbit/s
95th percentile per-packet one-way delay: 2144.629 ms
Loss rate: 6.72%
-- Flow 1:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 2171.253 ms
Loss rate: 10.24%
-- Flow 2:
Average throughput: 44.40 Mbit/s
95th percentile per-packet one-way delay: 25.009 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 18.45 Mbit/s
95th percentile per-packet one-way delay: 27.411 ms
Loss rate: 0.37%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 13:06:14
End at: 2019-08-27 13:06:44
Local clock offset: -0.824 ms
Remote clock offset: -2.051 ms

# Below is generated by plot.py at 2019-08-27 14:06:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 2154.904 ms
Loss rate: 6.82%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 2242.608 ms
Loss rate: 10.44%
-- Flow 2:
Average throughput: 44.11 Mbit/s
95th percentile per-packet one-way delay: 23.001 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 23.148 ms
Loss rate: 0.35%
Run 4: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 64.80 Mbit/s)
- Flow 1 egress (mean 58.07 Mbit/s)
- Flow 2 ingress (mean 44.14 Mbit/s)
- Flow 2 egress (mean 44.11 Mbit/s)
- Flow 3 ingress (mean 19.35 Mbit/s)
- Flow 3 egress (mean 19.34 Mbit/s)

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

- Flow 1 (95th percentile 2242.61 ms)
- Flow 2 (95th percentile 23.00 ms)
- Flow 3 (95th percentile 23.15 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 13:35:21
End at: 2019-08-27 13:35:51
Local clock offset: -0.075 ms
Remote clock offset: -2.973 ms

# Below is generated by plot.py at 2019-08-27 14:06:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.66 Mbit/s
  95th percentile per-packet one-way delay: 2109.476 ms
  Loss rate: 10.73%
-- Flow 1:
  Average throughput: 58.00 Mbit/s
  95th percentile per-packet one-way delay: 2152.657 ms
  Loss rate: 10.41%
-- Flow 2:
  Average throughput: 38.17 Mbit/s
  95th percentile per-packet one-way delay: 1817.515 ms
  Loss rate: 13.16%
-- Flow 3:
  Average throughput: 31.25 Mbit/s
  95th percentile per-packet one-way delay: 357.416 ms
  Loss rate: 6.12%
Run 5: Report of PCC-Allegro — Data Link

![Graph 1: Throughput Graph]

- **Flow 1** ingress (mean 64.68 Mbit/s)
- **Flow 1** egress (mean 58.00 Mbit/s)
- **Flow 2** ingress (mean 43.68 Mbit/s)
- **Flow 2** egress (mean 38.17 Mbit/s)
- **Flow 3** ingress (mean 33.17 Mbit/s)
- **Flow 3** egress (mean 31.25 Mbit/s)

![Graph 2: Latency Graph]

- **Flow 1** (95th percentile 2152.66 ms)
- **Flow 2** (95th percentile 1817.52 ms)
- **Flow 3** (95th percentile 357.42 ms)
Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 11:53:19
End at: 2019-08-27 11:53:49
Local clock offset: -0.162 ms
Remote clock offset: -4.357 ms

# Below is generated by plot.py at 2019-08-27 14:07:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.23 Mbit/s
95th percentile per-packet one-way delay: 768.606 ms
Loss rate: 27.79%
-- Flow 1:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 767.882 ms
Loss rate: 35.12%
-- Flow 2:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 775.980 ms
Loss rate: 20.21%
-- Flow 3:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 163.147 ms
Loss rate: 0.73%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

End at: 2019-08-27 12:23:17
Local clock offset: -0.996 ms
Remote clock offset: -2.116 ms

# Below is generated by plot.py at 2019-08-27 14:07:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.81 Mbit/s
  95th percentile per-packet one-way delay: 824.902 ms
  Loss rate: 27.55%
-- Flow 1:
  Average throughput: 56.31 Mbit/s
  95th percentile per-packet one-way delay: 722.869 ms
  Loss rate: 37.80%
-- Flow 2:
  Average throughput: 34.73 Mbit/s
  95th percentile per-packet one-way delay: 1025.078 ms
  Loss rate: 4.17%
-- Flow 3:
  Average throughput: 40.74 Mbit/s
  95th percentile per-packet one-way delay: 112.538 ms
  Loss rate: 0.51%
Run 2: Report of PCC-Expr — Data Link

[Graph: Throughput (Mbps) over time for different flows]

[Graph: Per-packet one-way delay (ms) over time for different flows]
Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 12:52:45
End at: 2019-08-27 12:53:15
Local clock offset: -0.94 ms
Remote clock offset: -2.197 ms

# Below is generated by plot.py at 2019-08-27 14:07:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 1309.676 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 58.27 Mbit/s
95th percentile per-packet one-way delay: 1077.966 ms
Loss rate: 6.39%
-- Flow 2:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 1342.861 ms
Loss rate: 13.04%
-- Flow 3:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 20.979 ms
Loss rate: 0.37%
Run 3: Report of PCC-Expr — Data Link

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

- **Throughput**
  - **Flow 1 ingress (mean 62.19 Mbit/s)**
  - **Flow 2 ingress (mean 46.95 Mbit/s)**
  - **Flow 3 ingress (mean 15.59 Mbit/s)**
  - **Flow 1 egress (mean 58.27 Mbit/s)**
  - **Flow 2 egress (mean 40.85 Mbit/s)**
  - **Flow 3 egress (mean 15.57 Mbit/s)**

- **Delay**
  - **Flow 1 (95th percentile 1077.97 ms)**
  - **Flow 2 (95th percentile 1342.88 ms)**
  - **Flow 3 (95th percentile 20.98 ms)**

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Run 4: Statistics of PCC-Expr

End at: 2019-08-27 13:22:34
Local clock offset: -0.709 ms
Remote clock offset: -3.694 ms

# Below is generated by plot.py at 2019-08-27 14:08:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.03 Mbit/s
  95th percentile per-packet one-way delay: 1502.052 ms
  Loss rate: 12.42%
-- Flow 1:
  Average throughput: 59.47 Mbit/s
  95th percentile per-packet one-way delay: 1179.772 ms
  Loss rate: 13.45%
-- Flow 2:
  Average throughput: 35.26 Mbit/s
  95th percentile per-packet one-way delay: 1583.368 ms
  Loss rate: 13.83%
-- Flow 3:
  Average throughput: 27.64 Mbit/s
  95th percentile per-packet one-way delay: 50.058 ms
  Loss rate: 0.50%
Run 4: Report of PCC-Expr — Data Link

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

Legend:
- Flow 1 ingress (mean 68.65 Mbit/s)
- Flow 1 egress (mean 59.47 Mbit/s)
- Flow 2 ingress (mean 40.86 Mbit/s)
- Flow 2 egress (mean 35.26 Mbit/s)
- Flow 3 ingress (mean 27.71 Mbit/s)
- Flow 3 egress (mean 27.64 Mbit/s)
Run 5: Statistics of PCC-Expr

End at: 2019-08-27 13:51:41
Local clock offset: -0.632 ms
Remote clock offset: -1.135 ms

# Below is generated by plot.py at 2019-08-27 14:08:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 867.203 ms
Loss rate: 23.79%
-- Flow 1:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 901.619 ms
Loss rate: 33.93%
-- Flow 2:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 55.546 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.99 Mbit/s
95th percentile per-packet one-way delay: 58.829 ms
Loss rate: 0.86%
Run 5: Report of PCC-Expr — Data Link

The graphs depict the throughput and one-way delay over time for different flows. The throughput graph shows the data rate in Mbps for each flow, with distinct lines for ingress and egress data (in, out) for each flow. The one-way delay graph illustrates the delay in milliseconds for each flow.

Legend:
- Flow 1 ingress (mean 83.52 Mbps)
- Flow 1 egress (mean 55.22 Mbps)
- Flow 2 ingress (mean 42.79 Mbps)
- Flow 2 egress (mean 42.65 Mbps)
- Flow 3 ingress (mean 24.15 Mbps)
- Flow 3 egress (mean 23.99 Mbps)

Throughput (Mbps):
- X-axis: Time (s)
- Y-axis: Throughput (Mbps)

One-way delay (ms):
- X-axis: Time (s)
- Y-axis: One-way delay (ms)
Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 11:32:17
End at: 2019-08-27 11:32:47
Local clock offset: -0.911 ms
Remote clock offset: -4.568 ms

# Below is generated by plot.py at 2019-08-27 14:08:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.66 Mbit/s
  95th percentile per-packet one-way delay: 32.633 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 60.95 Mbit/s
  95th percentile per-packet one-way delay: 28.867 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 36.06 Mbit/s
  95th percentile per-packet one-way delay: 31.455 ms
  Loss rate: 0.18%
-- Flow 3:
  Average throughput: 23.44 Mbit/s
  95th percentile per-packet one-way delay: 38.361 ms
  Loss rate: 0.63%
Run 1: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 60.95 Mbit/s)
- Flow 1 egress (mean 60.95 Mbit/s)
- Flow 2 ingress (mean 36.09 Mbit/s)
- Flow 2 egress (mean 36.06 Mbit/s)
- Flow 3 ingress (mean 23.51 Mbit/s)
- Flow 3 egress (mean 23.44 Mbit/s)
Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 12:01:58
End at: 2019-08-27 12:02:28
Local clock offset: -0.929 ms
Remote clock offset: -2.024 ms

# Below is generated by plot.py at 2019-08-27 14:08:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.96 Mbit/s
  95th percentile per-packet one-way delay: 31.404 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 53.61 Mbit/s
  95th percentile per-packet one-way delay: 32.513 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 47.55 Mbit/s
  95th percentile per-packet one-way delay: 26.964 ms
  Loss rate: 0.21%
-- Flow 3:
  Average throughput: 23.37 Mbit/s
  95th percentile per-packet one-way delay: 43.116 ms
  Loss rate: 0.52%
Run 2: Report of QUIC Cubic — Data Link

![Graph showing network performance metrics over time for different flows](image-url)
Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 12:31:24
End at: 2019-08-27 12:31:54
Local clock offset: -0.559 ms
Remote clock offset: -3.867 ms

# Below is generated by plot.py at 2019-08-27 14:08:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.00 Mbit/s
  95th percentile per-packet one-way delay: 40.089 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 54.52 Mbit/s
  95th percentile per-packet one-way delay: 33.833 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 34.83 Mbit/s
  95th percentile per-packet one-way delay: 64.553 ms
  Loss rate: 0.21%
-- Flow 3:
  Average throughput: 46.40 Mbit/s
  95th percentile per-packet one-way delay: 34.698 ms
  Loss rate: 0.37%

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Run 3: Report of QUIC Cubic — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, with markers indicating 95th percentile delay values for each flow.]
Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 13:01:12
End at: 2019-08-27 13:01:42
Local clock offset: -0.879 ms
Remote clock offset: -2.756 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.54 Mbit/s
  95th percentile per-packet one-way delay: 33.115 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 56.81 Mbit/s
  95th percentile per-packet one-way delay: 33.197 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 39.81 Mbit/s
  95th percentile per-packet one-way delay: 31.354 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 31.04 Mbit/s
  95th percentile per-packet one-way delay: 37.686 ms
  Loss rate: 0.62%
Run 4: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet round-trip time for three flows over time.](image-url)
Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 13:30:32
End at: 2019-08-27 13:31:02
Local clock offset: -0.229 ms
Remote clock offset: -2.102 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 35.172 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 55.40 Mbit/s
95th percentile per-packet one-way delay: 32.746 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 38.74 Mbit/s
95th percentile per-packet one-way delay: 55.636 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.10 Mbit/s
95th percentile per-packet one-way delay: 29.412 ms
Loss rate: 0.43%
Run 5: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet size over time]
Run 1: Statistics of SCReAM

Start at: 2019-08-27 11:26:05
End at: 2019-08-27 11:26:35
Local clock offset: -0.519 ms
Remote clock offset: -3.265 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 23.193 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.285 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 18.872 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 20.109 ms
Loss rate: 0.36%
Run 1: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.21 Mbps)
Flow 1 egress (mean 0.21 Mbps)
Flow 2 ingress (mean 0.21 Mbps)
Flow 2 egress (mean 0.21 Mbps)
Flow 3 ingress (mean 0.22 Mbps)
Flow 3 egress (mean 0.22 Mbps)

Per packet one way delay (ms)

Flow 1 (95th percentile 23.29 ms)
Flow 2 (95th percentile 18.87 ms)
Flow 3 (95th percentile 20.11 ms)
Run 2: Statistics of SCReAM

End at: 2019-08-27 11:56:25
Local clock offset: -0.643 ms
Remote clock offset: -3.815 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 24.033 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.688 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.819 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 24.082 ms
Loss rate: 0.36%
Run 3: Statistics of SCReAM

Start at: 2019-08-27 12:25:16
End at: 2019-08-27 12:25:46
Local clock offset: -0.076 ms
Remote clock offset: -3.019 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 23.941 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.932 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.804 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 23.966 ms
Loss rate: 0.35%
Run 3: Report of SCReAM — Data Link

![Graph showing throughput and packet size over time for different flows.](graph.png)
Run 4: Statistics of SCReAM

End at: 2019-08-27 12:55:44
Local clock offset: -0.521 ms
Remote clock offset: -3.781 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 24.985 ms
  Loss rate: 0.19%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 24.969 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 25.000 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 20.618 ms
  Loss rate: 0.36%
Run 4: Report of SCReAM — Data Link

![Graph of throughput over time for different flows]

![Graph of per-packet delay over time for different flows]
Run 5: Statistics of SCReAM

End at: 2019-08-27 13:25:03
Local clock offset: -1.063 ms
Remote clock offset: -1.922 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 22.600 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.457 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 22.620 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.662 ms
Loss rate: 0.35%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2019-08-27 11:33:35
End at: 2019-08-27 11:34:05
Local clock offset: -0.46 ms
Remote clock offset: -4.044 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.98 Mbit/s
95th percentile per-packet one-way delay: 31.917 ms
Loss rate: 0.19%

-- Flow 1:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 29.459 ms
Loss rate: 0.10%

-- Flow 2:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 32.816 ms
Loss rate: 0.21%

-- Flow 3:
Average throughput: 23.16 Mbit/s
95th percentile per-packet one-way delay: 33.251 ms
Loss rate: 0.43%
Run 1: Report of Sprout — Data Link

![Graph showing throughput over time for different flows]

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

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 24.57 Mbit/s)
Flow 1 egress (mean 24.56 Mbit/s)
Flow 2 ingress (mean 23.75 Mbit/s)
Flow 2 egress (mean 23.74 Mbit/s)
Flow 3 ingress (mean 23.18 Mbit/s)
Flow 3 egress (mean 23.16 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 29.46 ms)
Flow 2 (95th percentile 32.82 ms)
Flow 3 (95th percentile 33.25 ms)
Run 2: Statistics of Sprout

Start at: 2019-08-27 12:03:10
End at: 2019-08-27 12:03:40
Local clock offset: -0.8 ms
Remote clock offset: -4.257 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.54 Mbit/s
95th percentile per-packet one-way delay: 27.666 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.37 Mbit/s
95th percentile per-packet one-way delay: 25.851 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.26 Mbit/s
95th percentile per-packet one-way delay: 27.198 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 29.990 ms
Loss rate: 0.16%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2019-08-27 12:32:37
End at: 2019-08-27 12:33:07
Local clock offset: -0.911 ms
Remote clock offset: -3.321 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.87 Mbit/s
95th percentile per-packet one-way delay: 28.602 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 27.214 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 28.840 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 22.83 Mbit/s
95th percentile per-packet one-way delay: 31.629 ms
Loss rate: 0.19%
Run 3: Report of Sprout — Data Link

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**Throughput Chart**

- **Flow 1 ingress (mean 24.25 Mbit/s)**
- **Flow 1 egress (mean 24.25 Mbit/s)**
- **Flow 2 ingress (mean 24.21 Mbit/s)**
- **Flow 2 egress (mean 24.20 Mbit/s)**
- **Flow 3 ingress (mean 22.85 Mbit/s)**
- **Flow 3 egress (mean 22.83 Mbit/s)**

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

- **Flow 1 (95th percentile 27.21 ms)**
- **Flow 2 (95th percentile 28.84 ms)**
- **Flow 3 (95th percentile 31.63 ms)**

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Run 4: Statistics of Sprout

Start at: 2019-08-27 13:02:26
End at: 2019-08-27 13:02:56
Local clock offset: -0.785 ms
Remote clock offset: -1.959 ms

# Below is generated by plot.py at 2019-08-27 14:08:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.57 Mbit/s
95th percentile per-packet one-way delay: 26.383 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 26.780 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.31 Mbit/s
95th percentile per-packet one-way delay: 25.267 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 26.094 ms
Loss rate: 0.17%
Run 4: Report of Sprout — Data Link

The graphs show the throughput and per-packet one-way delay for different flows over time.

Throughput (Mb/s):
- Flow 1 ingress (mean 24.53 Mb/s)
- Flow 1 egress (mean 24.52 Mb/s)
- Flow 2 ingress (mean 24.33 Mb/s)
- Flow 2 egress (mean 24.31 Mb/s)
- Flow 3 ingress (mean 23.86 Mb/s)
- Flow 3 egress (mean 23.84 Mb/s)

Per-packet one-way delay (ms):
- Flow 1 (95th percentile 26.78 ms)
- Flow 2 (95th percentile 25.27 ms)
- Flow 3 (95th percentile 26.09 ms)
Run 5: Statistics of Sprout

End at: 2019-08-27 13:32:14
Local clock offset: 0.035 ms
Remote clock offset: -3.296 ms

# Below is generated by plot.py at 2019-08-27 14:08:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 28.135 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.36 Mbit/s
95th percentile per-packet one-way delay: 27.587 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 28.567 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 28.659 ms
Loss rate: 0.35%
Run 5: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 11:34:46  
End at: 2019-08-27 11:35:16  
Local clock offset: -0.946 ms  
Remote clock offset: -4.733 ms

# Below is generated by plot.py at 2019-08-27 14:09:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 117.275 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 54.14 Mbit/s
95th percentile per-packet one-way delay: 105.230 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 46.48 Mbit/s
95th percentile per-packet one-way delay: 50.654 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 201.254 ms
Loss rate: 1.83%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 12:04:19
End at: 2019-08-27 12:04:49
Local clock offset: 0.038 ms
Remote clock offset: -1.442 ms

# Below is generated by plot.py at 2019-08-27 14:10:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 150.373 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 148.423 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 39.54 Mbit/s
95th percentile per-packet one-way delay: 151.844 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 31.57 Mbit/s
95th percentile per-packet one-way delay: 149.256 ms
Loss rate: 4.14%
Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 12:33:46
End at: 2019-08-27 12:34:16
Local clock offset: -0.085 ms
Remote clock offset: -0.691 ms

# Below is generated by plot.py at 2019-08-27 14:10:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.95 Mbit/s
  95th percentile per-packet one-way delay: 148.399 ms
  Loss rate: 1.22%
-- Flow 1:
  Average throughput: 56.98 Mbit/s
  95th percentile per-packet one-way delay: 147.419 ms
  Loss rate: 0.94%
-- Flow 2:
  Average throughput: 39.73 Mbit/s
  95th percentile per-packet one-way delay: 149.603 ms
  Loss rate: 0.78%
-- Flow 3:
  Average throughput: 31.67 Mbit/s
  95th percentile per-packet one-way delay: 147.572 ms
  Loss rate: 3.74%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 13:03:36
End at: 2019-08-27 13:04:06
Local clock offset: 0.29 ms
Remote clock offset: -1.747 ms

# Below is generated by plot.py at 2019-08-27 14:10:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 172.637 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 112.601 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 48.772 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 197.763 ms
Loss rate: 2.06%
Run 4: Report of TaoVA-100x — Data Link

[Graph and diagram with data points and trends related to throughput and latency for different flows.]
Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 13:32:52
End at: 2019-08-27 13:33:22
Local clock offset: -0.625 ms
Remote clock offset: -3.597 ms

# Below is generated by plot.py at 2019-08-27 14:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.88 Mbit/s
95th percentile per-packet one-way delay: 150.681 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 146.869 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 150.578 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 154.580 ms
Loss rate: 5.28%
Run 5: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 11:43:27
End at: 2019-08-27 11:43:57
Local clock offset: -0.392 ms
Remote clock offset: -4.757 ms

# Below is generated by plot.py at 2019-08-27 14:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 23.748 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 22.863 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 47.40 Mbit/s
95th percentile per-packet one-way delay: 23.908 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 23.076 ms
Loss rate: 0.27%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 12:12:58
Local clock offset: -0.33 ms
Remote clock offset: -3.448 ms

# Below is generated by plot.py at 2019-08-27 14:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.51 Mbit/s
95th percentile per-packet one-way delay: 26.745 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 21.840 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 23.695 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 27.986 ms
Loss rate: 0.31%
Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 12:42:22
End at: 2019-08-27 12:42:52
Local clock offset: -0.709 ms
Remote clock offset: -3.072 ms

# Below is generated by plot.py at 2019-08-27 14:10:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 26.612 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 53.18 Mbit/s
95th percentile per-packet one-way delay: 22.773 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 27.422 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 24.080 ms
Loss rate: 0.39%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 13:12:19
End at: 2019-08-27 13:12:49
Local clock offset: -1.026 ms
Remote clock offset: -2.723 ms

# Below is generated by plot.py at 2019-08-27 14:10:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 26.028 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 61.73 Mbit/s
95th percentile per-packet one-way delay: 25.360 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 33.64 Mbit/s
95th percentile per-packet one-way delay: 23.019 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 28.75 Mbit/s
95th percentile per-packet one-way delay: 27.265 ms
Loss rate: 0.30%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 13:41:19
End at: 2019-08-27 13:41:49
Local clock offset: -3.791 ms
Remote clock offset: -6.219 ms

# Below is generated by plot.py at 2019-08-27 14:10:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.52 Mbit/s
95th percentile per-packet one-way delay: 23.300 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 52.92 Mbit/s
95th percentile per-packet one-way delay: 23.401 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 46.80 Mbit/s
95th percentile per-packet one-way delay: 22.819 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 28.36 Mbit/s
95th percentile per-packet one-way delay: 24.012 ms
Loss rate: 0.28%
Run 5: Report of TCP Vegas — Data Link

![Graph showing throughput and packet loss over time for different flows with mean values and 95th percentile delays.](image)
Run 1: Statistics of Verus

Start at: 2019-08-27 11:31:00  
End at: 2019-08-27 11:31:30  
Local clock offset: -0.26 ms  
Remote clock offset: -4.876 ms  

# Below is generated by plot.py at 2019-08-27 14:10:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.61 Mbit/s  
95th percentile per-packet one-way delay: 70.497 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 53.84 Mbit/s  
95th percentile per-packet one-way delay: 68.947 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 35.73 Mbit/s  
95th percentile per-packet one-way delay: 72.159 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 48.23 Mbit/s  
95th percentile per-packet one-way delay: 109.531 ms  
Loss rate: 0.62%
Run 1: Report of Verus — Data Link

![Graph showing network throughput over time for different flows with specified ingress and egress rates.]

![Graph showing packet delay distribution for different flows with specified 95th percentile delays.]

Flow 1 ingress (mean 54.02 Mbit/s)  
Flow 1 egress (mean 53.84 Mbit/s)  
Flow 2 ingress (mean 35.80 Mbit/s)  
Flow 2 egress (mean 35.73 Mbit/s)  
Flow 3 ingress (mean 48.47 Mbit/s)  
Flow 3 egress (mean 48.23 Mbit/s)

Flow 1 (95th percentile 68.95 ms)  
Flow 2 (95th percentile 72.16 ms)  
Flow 3 (95th percentile 109.53 ms)
Run 2: Statistics of Verus

Start at: 2019-08-27 12:00:44
End at: 2019-08-27 12:01:14
Local clock offset: -0.578 ms
Remote clock offset: -4.199 ms

# Below is generated by plot.py at 2019-08-27 14:10:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.34 Mbit/s
95th percentile per-packet one-way delay: 79.277 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 67.742 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 44.93 Mbit/s
95th percentile per-packet one-way delay: 92.386 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 35.47 Mbit/s
95th percentile per-packet one-way delay: 113.425 ms
Loss rate: 0.44%
Run 2: Report of Verus — Data Link

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

- **Flow 1** (ingress mean 39.73 Mbit/s, egress mean 39.69 Mbit/s)
- **Flow 2** (ingress mean 44.99 Mbit/s, egress mean 44.93 Mbit/s)
- **Flow 3** (ingress mean 35.35 Mbit/s, egress mean 35.47 Mbit/s)

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

- **Flow 1** (95th percentile 67.74 ms)
- **Flow 2** (95th percentile 92.39 ms)
- **Flow 3** (95th percentile 113.42 ms)
Run 3: Statistics of Verus

Start at: 2019-08-27 12:30:08
End at: 2019-08-27 12:30:38
Local clock offset: -0.708 ms
Remote clock offset: -2.164 ms

# Below is generated by plot.py at 2019-08-27 14:11:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.37 Mbit/s
  95th percentile per-packet one-way delay: 85.115 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 58.60 Mbit/s
  95th percentile per-packet one-way delay: 67.488 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 37.34 Mbit/s
  95th percentile per-packet one-way delay: 179.976 ms
  Loss rate: 0.34%
-- Flow 3:
  Average throughput: 32.98 Mbit/s
  95th percentile per-packet one-way delay: 164.825 ms
  Loss rate: 0.82%
Run 3: Report of Verus — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 58.68 Mbit/s)  
Flow 1 egress (mean 58.60 Mbit/s)  
Flow 2 ingress (mean 37.42 Mbit/s)  
Flow 2 egress (mean 37.34 Mbit/s)  
Flow 3 ingress (mean 33.19 Mbit/s)  
Flow 3 egress (mean 32.98 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

• Flow 1 (95th percentile 67.49 ms)  
• Flow 2 (95th percentile 179.98 ms)  
• Flow 3 (95th percentile 164.82 ms)
Run 4: Statistics of Verus

Start at: 2019-08-27 12:59:57
End at: 2019-08-27 13:00:27
Local clock offset: -0.587 ms
Remote clock offset: -1.019 ms

# Below is generated by plot.py at 2019-08-27 14:11:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.98 Mbit/s
95th percentile per-packet one-way delay: 67.117 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 63.41 Mbit/s
95th percentile per-packet one-way delay: 61.438 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 81.404 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 24.16 Mbit/s
95th percentile per-packet one-way delay: 199.378 ms
Loss rate: 0.61%
Run 4: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 63.51 Mbit/s)
- Flow 1 egress (mean 63.41 Mbit/s)
- Flow 2 ingress (mean 33.97 Mbit/s)
- Flow 2 egress (mean 33.89 Mbit/s)
- Flow 3 ingress (mean 24.25 Mbit/s)
- Flow 3 egress (mean 24.16 Mbit/s)
Run 5: Statistics of Verus

Start at: 2019-08-27 13:29:19
End at: 2019-08-27 13:29:49
Local clock offset: -0.404 ms
Remote clock offset: -3.082 ms

# Below is generated by plot.py at 2019-08-27 14:11:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.00 Mbit/s
  95th percentile per-packet one-way delay: 81.809 ms
  Loss rate: 0.22%
-- Flow 1:
  Average throughput: 55.22 Mbit/s
  95th percentile per-packet one-way delay: 80.281 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 41.10 Mbit/s
  95th percentile per-packet one-way delay: 81.423 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 31.39 Mbit/s
  95th percentile per-packet one-way delay: 126.149 ms
  Loss rate: 0.52%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 11:38:37
End at: 2019-08-27 11:39:07
Local clock offset: -0.897 ms
Remote clock offset: -2.939 ms

# Below is generated by plot.py at 2019-08-27 14:11:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.97 Mbit/s
  95th percentile per-packet one-way delay: 21.889 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 58.95 Mbit/s
  95th percentile per-packet one-way delay: 21.642 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 39.74 Mbit/s
  95th percentile per-packet one-way delay: 22.062 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 1.82 Mbit/s
  95th percentile per-packet one-way delay: 21.841 ms
  Loss rate: 0.27%
Run 1: Report of PCC-Vivace — Data Link

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

- **Flow 1 Ingress (mean 58.94 Mbps/s)**
- **Flow 1 Egress (mean 58.95 Mbps/s)**
- **Flow 2 Ingress (mean 39.79 Mbps/s)**
- **Flow 2 Egress (mean 39.74 Mbps/s)**
- **Flow 3 Ingress (mean 1.82 Mbps/s)**
- **Flow 3 Egress (mean 1.82 Mbps/s)**

![Graph showing time (s) on the x-axis and throughput (Mbps/s) on the y-axis for different flows.](image)
Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 12:08:03
End at: 2019-08-27 12:08:33
Local clock offset: -0.899 ms
Remote clock offset: -4.297 ms

# Below is generated by plot.py at 2019-08-27 14:11:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 305.987 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 365.524 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 328.772 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 56.370 ms
Loss rate: 0.36%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing data link performance](image)

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 54.56 Mbps)
  - Flow 1 egress (mean 54.32 Mbps)
  - Flow 2 ingress (mean 32.84 Mbps)
  - Flow 2 egress (mean 32.57 Mbps)
  - Flow 3 ingress (mean 38.96 Mbps)
  - Flow 3 egress (mean 30.92 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 365.52 ms)
  - Flow 2 (95th percentile 328.77 ms)
  - Flow 3 (95th percentile 56.37 ms)

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Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 12:37:30
End at: 2019-08-27 12:38:00
Local clock offset: -0.888 ms
Remote clock offset: -2.281 ms

# Below is generated by plot.py at 2019-08-27 14:11:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 23.675 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 61.38 Mbit/s
95th percentile per-packet one-way delay: 21.162 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 21.403 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 16.51 Mbit/s
95th percentile per-packet one-way delay: 29.573 ms
Loss rate: 0.92%
Run 3: Report of PCC-Vivace — Data Link

![Graph 1]

![Graph 2]
Run 4: Statistics of PCC-Vivace

End at: 2019-08-27 13:07:58
Local clock offset: -1.127 ms
Remote clock offset: -3.955 ms

# Below is generated by plot.py at 2019-08-27 14:11:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 25.696 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 24.210 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 25.620 ms
Loss rate: 0.42%
Run 4: Report of PCC-Vivace — Data Link

[Graph 1: Throughput vs Time (Mbps/s)]
- Flow 1 ingress (mean 61.46 Mbps/s)
- Flow 1 egress (mean 61.47 Mbps/s)
- Flow 2 ingress (mean 28.76 Mbps/s)
- Flow 2 egress (mean 28.76 Mbps/s)
- Flow 3 ingress (mean 20.36 Mbps/s)
- Flow 3 egress (mean 20.34 Mbps/s)

[Graph 2: Per-packet one-way delay (ms)]
- Flow 1 (95th percentile 26.04 ms)
- Flow 2 (95th percentile 24.21 ms)
- Flow 3 (95th percentile 25.62 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 13:36:33
End at: 2019-08-27 13:37:03
Local clock offset: -0.857 ms
Remote clock offset: -1.465 ms

# Below is generated by plot.py at 2019-08-27 14:11:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 272.701 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 57.42 Mbit/s
95th percentile per-packet one-way delay: 376.655 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 42.40 Mbit/s
95th percentile per-packet one-way delay: 36.887 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 9.03 Mbit/s
95th percentile per-packet one-way delay: 20.488 ms
Loss rate: 0.45%
Run 5: Report of PCC-Vivace — Data Link

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

Flow 1 ingress (mean 57.74 Mbit/s)  
Flow 1 egress (mean 57.42 Mbit/s)  
Flow 2 ingress (mean 42.41 Mbit/s)  
Flow 2 egress (mean 42.40 Mbit/s)  
Flow 3 ingress (mean 9.03 Mbit/s)  
Flow 3 egress (mean 9.03 Mbit/s)
Run 1: Statistics of WebRTC media

Start at: 2019-08-27 11:39:52
End at: 2019-08-27 11:40:22
Local clock offset: -1.181 ms
Remote clock offset: -2.976 ms

# Below is generated by plot.py at 2019-08-27 14:11:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.78 Mbit/s
  95th percentile per-packet one-way delay: 18.634 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 1.56 Mbit/s
  95th percentile per-packet one-way delay: 18.619 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.93 Mbit/s
  95th percentile per-packet one-way delay: 18.688 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 18.239 ms
  Loss rate: 0.72%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2019-08-27 12:09:16
End at: 2019-08-27 12:09:46
Local clock offset: -0.332 ms
Remote clock offset: -1.514 ms

# Below is generated by plot.py at 2019-08-27 14:11:40
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 2.74 Mbit/s
   95th percentile per-packet one-way delay: 22.694 ms
   Loss rate: 0.07%
   -- Flow 1:
      Average throughput: 1.56 Mbit/s
      95th percentile per-packet one-way delay: 22.764 ms
      Loss rate: 0.13%
   -- Flow 2:
      Average throughput: 0.77 Mbit/s
      95th percentile per-packet one-way delay: 22.552 ms
      Loss rate: 0.00%
   -- Flow 3:
      Average throughput: 0.41 Mbit/s
      95th percentile per-packet one-way delay: 18.125 ms
      Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Data Link Chart]

![Packet Delay Chart]
Run 3: Statistics of WebRTC media

Start at: 2019-08-27 12:38:44
End at: 2019-08-27 12:39:14
Local clock offset: -0.656 ms
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2019-08-27 14:11:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 21.557 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 17.302 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 21.619 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 21.887 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

![Image of throughput and packet delay graphs]

- Flow 1 ingress (mean 1.62 Mbit/s) vs. Flow 1 egress (mean 1.62 Mbit/s)
- Flow 2 ingress (mean 1.03 Mbit/s) vs. Flow 2 egress (mean 1.02 Mbit/s)
- Flow 3 ingress (mean 0.46 Mbit/s) vs. Flow 3 egress (mean 0.46 Mbit/s)

![Image of packet delay graph]

- Flow 1 (95th percentile 17.30 ms) vs. Flow 2 (95th percentile 21.62 ms) vs. Flow 3 (95th percentile 21.89 ms)
Run 4: Statistics of WebRTC media

Start at: 2019-08-27 13:08:47
End at: 2019-08-27 13:09:17
Local clock offset: -0.911 ms
Remote clock offset: -3.205 ms

# Below is generated by plot.py at 2019-08-27 14:11:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 24.512 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 24.689 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 21.572 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 21.183 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

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**Graph 1:**
- Y-axis: Throughput (Mbps)
- X-axis: Time (s)
- Legend:
  - Flow 1 ingress (mean 1.59 Mbps)
  - Flow 1 egress (mean 1.59 Mbps)
  - Flow 2 ingress (mean 0.95 Mbps)
  - Flow 2 egress (mean 0.95 Mbps)
  - Flow 3 ingress (mean 0.34 Mbps)
  - Flow 3 egress (mean 0.34 Mbps)

**Graph 2:**
- Y-axis: Per packet one way delay [ms]
- X-axis: Time (s)
- Legend:
  - Flow 1 (95th percentile 24.69 ms)
  - Flow 2 (95th percentile 21.57 ms)
  - Flow 3 (95th percentile 21.18 ms)
Run 5: Statistics of WebRTC media

End at: 2019-08-27 13:38:18
Local clock offset: -0.204 ms
Remote clock offset: -3.469 ms

# Below is generated by plot.py at 2019-08-27 14:11:40
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 24.861 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 22.325 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 22.435 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 25.090 ms
Loss rate: 1.05%
Run 5: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 1.61 Mbit/s)
- Flow 1 egress (mean 1.61 Mbit/s)
- Flow 2 ingress (mean 0.93 Mbit/s)
- Flow 2 egress (mean 0.93 Mbit/s)
- Flow 3 ingress (mean 0.36 Mbit/s)
- Flow 3 egress (mean 0.36 Mbit/s)