Pantheon Report

Generated at 2019-08-27 15:01:15 (UTC).
Data path: GCE London on ens4 (remote) → GCE Sydney on ens4 (local).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
brANCH: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7e9a17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedb0f58e562f4
third_party/indigo @ 2001c92e4aa9d58d384d4fe0edc090c077e64d
third_party/libutp @ b3465b94e22862f2b179eaaab4e4906ce6bb7cf3cf
third_party/muses @ 5c721187ad823d2a0955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61d92d708a88691fbb84e3200
third_party/pantheon-tunnel @ 3f8663f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1af9cf958f0a0d66d18b623c091a55feci872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08faba24eb249f74ab
third_party/proto-quic @ 77961f1a8273a86b42f28e14deb978f3ccf42
third_party/scream-reproduce @ f09918d1421aa3131bf11ff1964797e41da3dbb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46d18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ 4db447ea74c6c60a26149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE London to GCE Sydney, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<tbody>
<tr>
<td></td>
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<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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<tr>
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<td>375.34</td>
<td>274.65</td>
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<td>285.95</td>
<td>280.65</td>
<td>187.92</td>
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<td>391.98</td>
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Run 1: Statistics of TCP BBR

Start at: 2019-08-27 08:58:53
End at: 2019-08-27 08:59:23
Local clock offset: -0.251 ms
Remote clock offset: -0.535 ms

# Below is generated by plot.py at 2019-08-27 13:00:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 807.71 Mbit/s
95th percentile per-packet one-way delay: 261.153 ms
Loss rate: 4.74%
-- Flow 1:
Average throughput: 461.57 Mbit/s
95th percentile per-packet one-way delay: 236.558 ms
Loss rate: 2.31%
-- Flow 2:
Average throughput: 368.77 Mbit/s
95th percentile per-packet one-way delay: 287.797 ms
Loss rate: 8.81%
-- Flow 3:
Average throughput: 311.71 Mbit/s
95th percentile per-packet one-way delay: 237.445 ms
Loss rate: 5.27%
Run 1: Report of TCP BBR — Data Link

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 468.28 Mbps)
  - Flow 2 ingress (mean 398.99 Mbps)
  - Flow 3 ingress (mean 320.25 Mbps)
  - Flow 1 egress (mean 461.57 Mbps)
  - Flow 2 egress (mean 368.77 Mbps)
  - Flow 3 egress (mean 311.71 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 236.56 ms)
  - Flow 2 (95th percentile 287.80 ms)
  - Flow 3 (95th percentile 237.44 ms)
Run 2: Statistics of TCP BBR

Start at: 2019-08-27 09:42:25
End at: 2019-08-27 09:42:55
Local clock offset: -0.093 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-08-27 13:01:10
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 218.360 ms
Loss rate: 2.34%

-- Flow 1:
Average throughput: 478.04 Mbit/s
95th percentile per-packet one-way delay: 224.885 ms
Loss rate: 1.67%

-- Flow 2:
Average throughput: 363.56 Mbit/s
95th percentile per-packet one-way delay: 222.378 ms
Loss rate: 2.42%

-- Flow 3:
Average throughput: 330.14 Mbit/s
95th percentile per-packet one-way delay: 164.456 ms
Loss rate: 5.08%
Run 2: Report of TCP BBR — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 481.82 Mbps)
  - Flow 1 egress (mean 478.04 Mbps)
  - Flow 2 ingress (mean 397.60 Mbps)
  - Flow 2 egress (mean 363.56 Mbps)
  - Flow 3 ingress (mean 338.49 Mbps)
  - Flow 3 egress (mean 330.14 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 224.88 ms)
  - Flow 2 (95th percentile 222.38 ms)
  - Flow 3 (95th percentile 164.46 ms)
Run 3: Statistics of TCP BBR

Start at: 2019-08-27 10:25:49
End at: 2019-08-27 10:26:19
Local clock offset: -0.142 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-08-27 13:01:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 813.62 Mbit/s
  95th percentile per-packet one-way delay: 233.094 ms
  Loss rate: 1.98%
-- Flow 1:
  Average throughput: 463.65 Mbit/s
  95th percentile per-packet one-way delay: 236.062 ms
  Loss rate: 1.58%
-- Flow 2:
  Average throughput: 412.11 Mbit/s
  95th percentile per-packet one-way delay: 209.790 ms
  Loss rate: 1.80%
-- Flow 3:
  Average throughput: 234.73 Mbit/s
  95th percentile per-packet one-way delay: 164.482 ms
  Loss rate: 5.00%
Run 3: Report of TCP BBR — Data Link

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

Start at: 2019-08-27 11:09:28
End at: 2019-08-27 11:09:58
Local clock offset: -0.321 ms
Remote clock offset: -0.327 ms

# Below is generated by plot.py at 2019-08-27 13:01:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 770.66 Mbit/s
95th percentile per-packet one-way delay: 207.997 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 443.56 Mbit/s
95th percentile per-packet one-way delay: 179.215 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 374.24 Mbit/s
95th percentile per-packet one-way delay: 261.230 ms
Loss rate: 4.00%
-- Flow 3:
Average throughput: 241.74 Mbit/s
95th percentile per-packet one-way delay: 159.526 ms
Loss rate: 6.76%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2019-08-27 11:52:53
End at: 2019-08-27 11:53:23
Local clock offset: 0.042 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-08-27 13:01:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 718.40 Mbit/s
  95th percentile per-packet one-way delay: 224.206 ms
  Loss rate: 2.36%
-- Flow 1:
  Average throughput: 397.80 Mbit/s
  95th percentile per-packet one-way delay: 215.387 ms
  Loss rate: 1.26%
-- Flow 2:
  Average throughput: 358.01 Mbit/s
  95th percentile per-packet one-way delay: 232.934 ms
  Loss rate: 2.32%
-- Flow 3:
  Average throughput: 254.95 Mbit/s
  95th percentile per-packet one-way delay: 232.303 ms
  Loss rate: 7.41%
Run 5: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

Start at: 2019-08-27 09:26:05
End at: 2019-08-27 09:26:35
Local clock offset: 0.123 ms
Remote clock offset: -0.581 ms

# Below is generated by plot.py at 2019-08-27 13:04:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 566.58 Mbit/s
  95th percentile per-packet one-way delay: 233.491 ms
  Loss rate: 1.41%
-- Flow 1:
  Average throughput: 312.19 Mbit/s
  95th percentile per-packet one-way delay: 241.044 ms
  Loss rate: 0.85%
-- Flow 2:
  Average throughput: 289.82 Mbit/s
  95th percentile per-packet one-way delay: 218.658 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 190.82 Mbit/s
  95th percentile per-packet one-way delay: 147.222 ms
  Loss rate: 4.34%
Run 2: Statistics of Copa

Start at: 2019-08-27 10:09:25
End at: 2019-08-27 10:09:55
Local clock offset: 0.158 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-08-27 13:04:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 583.78 Mbit/s
95th percentile per-packet one-way delay: 195.206 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 316.19 Mbit/s
95th percentile per-packet one-way delay: 177.937 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 305.69 Mbit/s
95th percentile per-packet one-way delay: 223.431 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 199.03 Mbit/s
95th percentile per-packet one-way delay: 194.730 ms
Loss rate: 4.89%
Run 2: Report of Copa — Data Link

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

- **Flow 1**: Ingress (mean 315.76 Mbit/s), Egress (mean 316.19 Mbit/s)
- **Flow 2**: Ingress (mean 305.00 Mbit/s), Egress (mean 305.69 Mbit/s)
- **Flow 3**: Ingress (mean 203.62 Mbit/s), Egress (mean 199.03 Mbit/s)

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

- **Flow 1**: 95th percentile 177.94 ms
- **Flow 2**: 95th percentile 223.43 ms
- **Flow 3**: 95th percentile 194.73 ms
Run 3: Statistics of Copa

Start at: 2019-08-27 10:53:00
End at: 2019-08-27 10:53:30
Local clock offset: -0.323 ms
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-08-27 13:04:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.65 Mbit/s
95th percentile per-packet one-way delay: 203.072 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 272.46 Mbit/s
95th percentile per-packet one-way delay: 204.270 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 288.35 Mbit/s
95th percentile per-packet one-way delay: 156.343 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 205.63 Mbit/s
95th percentile per-packet one-way delay: 208.017 ms
Loss rate: 3.05%
Run 3: Report of Copa — Data Link

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

- Flow 1 ingress (mean 273.31 Mbit/s)
- Flow 1 egress (mean 272.46 Mbit/s)
- Flow 2 ingress (mean 288.64 Mbit/s)
- Flow 2 egress (mean 288.35 Mbit/s)
- Flow 3 ingress (mean 296.76 Mbit/s)
- Flow 3 egress (mean 205.63 Mbit/s)
Run 4: Statistics of Copa

Start at: 2019-08-27 11:36:45
End at: 2019-08-27 11:37:15
Local clock offset: -0.268 ms
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2019-08-27 13:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.24 Mbit/s
95th percentile per-packet one-way delay: 189.414 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 314.77 Mbit/s
95th percentile per-packet one-way delay: 197.568 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 259.47 Mbit/s
95th percentile per-packet one-way delay: 191.077 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 203.72 Mbit/s
95th percentile per-packet one-way delay: 140.519 ms
Loss rate: 4.00%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2019-08-27 12:20:10
End at: 2019-08-27 12:20:40
Local clock offset: -0.378 ms
Remote clock offset: -0.35 ms

# Below is generated by plot.py at 2019-08-27 13:14:49
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 432.31 Mbit/s
  95th percentile per-packet one-way delay: 226.958 ms
  Loss rate: 1.53%
  -- Flow 1:
  Average throughput: 214.12 Mbit/s
  95th percentile per-packet one-way delay: 231.799 ms
  Loss rate: 0.99%
  -- Flow 2:
  Average throughput: 259.93 Mbit/s
  95th percentile per-packet one-way delay: 228.263 ms
  Loss rate: 1.47%
  -- Flow 3:
  Average throughput: 140.42 Mbit/s
  95th percentile per-packet one-way delay: 134.202 ms
  Loss rate: 4.20%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 214.35 Mbps)
- Flow 1 egress (mean 214.12 Mbps)
- Flow 2 ingress (mean 260.30 Mbps)
- Flow 2 egress (mean 259.93 Mbps)
- Flow 3 ingress (mean 142.68 Mbps)
- Flow 3 egress (mean 140.42 Mbps)

![Graph 2: Packet delay vs. Time (ms)]

- Flow 1 (95th percentile 231.80 ms)
- Flow 2 (95th percentile 228.26 ms)
- Flow 3 (95th percentile 134.20 ms)
Run 1: Statistics of TCP Cubic

Start at: 2019-08-27 09:33:14
End at: 2019-08-27 09:33:44
Local clock offset: -0.412 ms
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-08-27 13:14:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 809.15 Mbit/s
  95th percentile per-packet one-way delay: 156.257 ms
  Loss rate: 1.18%
-- Flow 1:
  Average throughput: 485.00 Mbit/s
  95th percentile per-packet one-way delay: 148.768 ms
  Loss rate: 1.03%
-- Flow 2:
  Average throughput: 388.93 Mbit/s
  95th percentile per-packet one-way delay: 184.547 ms
  Loss rate: 1.24%
-- Flow 3:
  Average throughput: 202.99 Mbit/s
  95th percentile per-packet one-way delay: 153.499 ms
  Loss rate: 2.02%
Run 1: Report of TCP Cubic — Data Link

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

- **Throughput**
  - **Flow 1 ingress (mean 485.69 Mbit/s)****
  - **Flow 1 egress (mean 485.00 Mbit/s)****
  - **Flow 2 ingress (mean 388.59 Mbit/s)****
  - **Flow 2 egress (mean 388.93 Mbit/s)****
  - **Flow 3 ingress (mean 204.41 Mbit/s)****
  - **Flow 3 egress (mean 202.99 Mbit/s)****

- **Packet Delay**
  - **Flow 1 (95th percentile 148.77 ms)****
  - **Flow 2 (95th percentile 184.55 ms)****
  - **Flow 3 (95th percentile 153.50 ms)****
Run 2: Statistics of TCP Cubic

Start at: 2019-08-27 10:16:35  
End at: 2019-08-27 10:17:05  
Local clock offset: -0.296 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-08-27 13:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 756.80 Mbit/s
95th percentile per-packet one-way delay: 174.757 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 379.56 Mbit/s
95th percentile per-packet one-way delay: 153.053 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 401.79 Mbit/s
95th percentile per-packet one-way delay: 166.272 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 339.34 Mbit/s
95th percentile per-packet one-way delay: 179.079 ms
Loss rate: 4.67%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2019-08-27 11:00:20
End at: 2019-08-27 11:00:50
Local clock offset: -0.242 ms
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2019-08-27 13:14:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 826.62 Mbit/s
95th percentile per-packet one-way delay: 190.959 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 498.18 Mbit/s
95th percentile per-packet one-way delay: 196.511 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 394.02 Mbit/s
95th percentile per-packet one-way delay: 159.370 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 205.73 Mbit/s
95th percentile per-packet one-way delay: 161.246 ms
Loss rate: 1.47%
Run 3: Report of TCP Cubic — Data Link

![Graphs showing throughput and packet per second](image-url)
Run 4: Statistics of TCP Cubic

Start at: 2019-08-27 11:43:51
End at: 2019-08-27 11:44:21
Local clock offset: -0.195 ms
Remote clock offset: -0.252 ms

# Below is generated by plot.py at 2019-08-27 13:16:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 869.49 Mbit/s
  95th percentile per-packet one-way delay: 164.767 ms
  Loss rate: 1.67%
-- Flow 1:
  Average throughput: 489.75 Mbit/s
  95th percentile per-packet one-way delay: 161.333 ms
  Loss rate: 1.01%
-- Flow 2:
  Average throughput: 429.62 Mbit/s
  95th percentile per-packet one-way delay: 193.990 ms
  Loss rate: 1.61%
-- Flow 3:
  Average throughput: 289.87 Mbit/s
  95th percentile per-packet one-way delay: 148.644 ms
  Loss rate: 5.12%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2019-08-27 12:27:27
End at: 2019-08-27 12:27:57
Local clock offset: 0.416 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2019-08-27 13:17:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 852.90 Mbit/s
95th percentile per-packet one-way delay: 210.468 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 513.06 Mbit/s
95th percentile per-packet one-way delay: 214.029 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 345.52 Mbit/s
95th percentile per-packet one-way delay: 149.015 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 339.21 Mbit/s
95th percentile per-packet one-way delay: 202.497 ms
Loss rate: 4.66%
Run 5: Report of TCP Cubic — Data Link

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

Flow 1 ingress (mean 514.05 Mbit/s)  Flow 1 egress (mean 513.06 Mbit/s)
Flow 2 ingress (mean 347.17 Mbit/s)  Flow 2 egress (mean 345.52 Mbit/s)
Flow 3 ingress (mean 346.33 Mbit/s)  Flow 3 egress (mean 339.21 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 214.03 ms)  Flow 2 (95th percentile 149.01 ms)  Flow 3 (95th percentile 202.50 ms)
Run 1: Statistics of FillP

Start at: 2019-08-27 09:31:39
End at: 2019-08-27 09:32:09
Local clock offset: -0.336 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-08-27 13:17:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 352.91 Mbit/s
95th percentile per-packet one-way delay: 135.229 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 134.988 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 355.23 Mbit/s
95th percentile per-packet one-way delay: 135.532 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 217.81 Mbit/s
95th percentile per-packet one-way delay: 134.108 ms
Loss rate: 3.72%
Run 1: Report of FillP — Data Link

![Throughput Graph]

![Per-packet one-way delay Graph]
Run 2: Statistics of FillP

Start at: 2019-08-27 10:15:01
End at: 2019-08-27 10:15:31
Local clock offset: -0.043 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2019-08-27 13:17:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 339.59 Mbit/s
  95th percentile per-packet one-way delay: 145.071 ms
  Loss rate: 1.34%
-- Flow 1:
  Average throughput: 42.30 Mbit/s
  95th percentile per-packet one-way delay: 133.966 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 339.82 Mbit/s
  95th percentile per-packet one-way delay: 149.514 ms
  Loss rate: 1.11%
-- Flow 3:
  Average throughput: 221.99 Mbit/s
  95th percentile per-packet one-way delay: 132.919 ms
  Loss rate: 2.78%
Run 2: Report of FillP — Data Link

![Graph showing network performance metrics](image)

**Throughput (Mbps) vs. Time (s)**
- Flow 1 ingress (mean 42.01 Mbps)
- Flow 1 egress (mean 42.30 Mbps)
- Flow 2 ingress (mean 339.01 Mbps)
- Flow 2 egress (mean 339.82 Mbps)
- Flow 3 ingress (mean 222.02 Mbps)
- Flow 3 egress (mean 221.99 Mbps)

![Graph showing packet delay](image)

**Per-packet one-way delay (ms) vs. Time (s)**
- Flow 1 (95th percentile 133.97 ms)
- Flow 2 (95th percentile 149.51 ms)
- Flow 3 (95th percentile 132.92 ms)
Run 3: Statistics of FillP

Start at: 2019-08-27 10:58:30
End at: 2019-08-27 10:59:00
Local clock offset: -0.188 ms
Remote clock offset: -0.34 ms

# Below is generated by plot.py at 2019-08-27 13:24:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 685.22 Mbit/s
95th percentile per-packet one-way delay: 136.900 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 361.07 Mbit/s
95th percentile per-packet one-way delay: 138.830 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 371.10 Mbit/s
95th percentile per-packet one-way delay: 136.687 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 240.14 Mbit/s
95th percentile per-packet one-way delay: 133.369 ms
Loss rate: 3.50%
Run 3: Report of FillP — Data Link

[Graphs showing throughput and packet delay over time for different flows with mean throughput and 95th percentile delay values]
Run 4: Statistics of FillP

Start at: 2019-08-27 11:42:16
End at: 2019-08-27 11:42:46
Local clock offset: -0.583 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2019-08-27 13:24:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.66 Mbit/s
95th percentile per-packet one-way delay: 135.946 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 135.414 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 368.55 Mbit/s
95th percentile per-packet one-way delay: 135.998 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 234.53 Mbit/s
95th percentile per-packet one-way delay: 135.956 ms
Loss rate: 3.11%
Run 4: Report of FillP — Data Link

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

Flow 1 ingress (mean 37.89 Mbit/s)  
Flow 1 egress (mean 38.19 Mbit/s)  
Flow 2 ingress (mean 367.56 Mbit/s)  
Flow 2 egress (mean 368.55 Mbit/s)  
Flow 3 ingress (mean 235.55 Mbit/s)  
Flow 3 egress (mean 234.53 Mbit/s)
Run 5: Statistics of FillP

Start at: 2019-08-27 12:25:32
End at: 2019-08-27 12:26:02
Local clock offset: 0.359 ms
Remote clock offset: -0.322 ms

# Below is generated by plot.py at 2019-08-27 13:26:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 808.15 Mbit/s
95th percentile per-packet one-way delay: 146.092 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 514.29 Mbit/s
95th percentile per-packet one-way delay: 154.486 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 327.50 Mbit/s
95th percentile per-packet one-way delay: 137.206 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 236.20 Mbit/s
95th percentile per-packet one-way delay: 134.290 ms
Loss rate: 3.07%
Run 5: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 512.96 Mbit/s)
- Flow 1 Egress (mean 514.29 Mbit/s)
- Flow 2 Ingress (mean 338.32 Mbit/s)
- Flow 2 Egress (mean 327.50 Mbit/s)
- Flow 3 Ingress (mean 237.23 Mbit/s)
- Flow 3 Egress (mean 236.20 Mbit/s)

![Graph 2: Packet One-Way Delay vs Time](image2)

- Flow 1 (95th percentile 154.49 ms)
- Flow 2 (95th percentile 137.21 ms)
- Flow 3 (95th percentile 134.29 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2019-08-27 08:57:00
End at: 2019-08-27 08:57:30
Local clock offset: -0.312 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 794.26 Mbit/s
95th percentile per-packet one-way delay: 147.758 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 489.11 Mbit/s
95th percentile per-packet one-way delay: 162.025 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 332.57 Mbit/s
95th percentile per-packet one-way delay: 137.663 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 261.90 Mbit/s
95th percentile per-packet one-way delay: 137.758 ms
Loss rate: 3.00%
Run 1: Report of FillP-Sheep — Data Link

![Graphs showing network throughput and packet delay](image-url)
Run 2: Statistics of FillP-Sheep

Start at: 2019-08-27 09:40:44
End at: 2019-08-27 09:41:14
Local clock offset: 0.125 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 487.94 Mbit/s
95th percentile per-packet one-way delay: 143.198 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 183.82 Mbit/s
95th percentile per-packet one-way delay: 181.712 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 339.86 Mbit/s
95th percentile per-packet one-way delay: 139.555 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 244.89 Mbit/s
95th percentile per-packet one-way delay: 134.778 ms
Loss rate: 3.23%
Run 2: Report of FillP-Sheep — Data Link

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

- **Flow 1 Ingress** (mean 183.60 Mbit/s)
- **Flow 1 Egress** (mean 183.82 Mbit/s)
- **Flow 2 Ingress** (mean 339.81 Mbit/s)
- **Flow 2 Egress** (mean 339.86 Mbit/s)
- **Flow 3 Ingress** (mean 246.71 Mbit/s)
- **Flow 3 Egress** (mean 244.89 Mbit/s)

![Graph showing packet delay for different flows.]

- **Flow 1 (95th percentile 181.71 ms)**
- **Flow 2 (95th percentile 139.56 ms)**
- **Flow 3 (95th percentile 134.78 ms)**
Run 3: Statistics of FillP-Sheep

Start at: 2019-08-27 10:24:11
End at: 2019-08-27 10:24:41
Local clock offset: -0.028 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.93 Mbit/s
95th percentile per-packet one-way delay: 133.948 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 121.41 Mbit/s
95th percentile per-packet one-way delay: 132.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 335.12 Mbit/s
95th percentile per-packet one-way delay: 134.128 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 237.06 Mbit/s
95th percentile per-packet one-way delay: 134.123 ms
Loss rate: 3.08%
Run 3: Report of FillP-Sheep — Data Link

[Graphs showing throughput and packet delay over time for different flows: Flow 1, Flow 2, Flow 3]
Run 4: Statistics of FillP-Sheep

Start at: 2019-08-27 11:07:50
End at: 2019-08-27 11:08:20
Local clock offset: -0.762 ms
Remote clock offset: -0.391 ms

# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.35 Mbit/s
95th percentile per-packet one-way delay: 134.893 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 102.03 Mbit/s
95th percentile per-packet one-way delay: 132.571 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 358.13 Mbit/s
95th percentile per-packet one-way delay: 135.406 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 221.71 Mbit/s
95th percentile per-packet one-way delay: 134.155 ms
Loss rate: 3.37%
Run 4: Report of FillP-Sheep — Data Link

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

- Flow 1 Ingress (mean 101.17 Mb/s)
- Flow 1 Egress (mean 102.03 Mb/s)
- Flow 2 Ingress (mean 357.60 Mb/s)
- Flow 2 Egress (mean 358.13 Mb/s)
- Flow 3 Ingress (mean 223.62 Mb/s)
- Flow 3 Egress (mean 221.71 Mb/s)
Run 5: Statistics of FillP-Sheep

Start at: 2019-08-27 11:51:18
End at: 2019-08-27 11:51:48
Local clock offset: -0.395 ms
Remote clock offset: -0.293 ms

# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 383.74 Mbit/s
  95th percentile per-packet one-way delay: 139.723 ms
  Loss rate: 1.37%
-- Flow 1:
  Average throughput: 101.59 Mbit/s
  95th percentile per-packet one-way delay: 149.865 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 314.14 Mbit/s
  95th percentile per-packet one-way delay: 134.534 ms
  Loss rate: 1.08%
-- Flow 3:
  Average throughput: 227.92 Mbit/s
  95th percentile per-packet one-way delay: 133.347 ms
  Loss rate: 3.57%
Run 5: Report of FillP-Sheep — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 Ingress (mean 101.02 Mbps)
- Flow 1 Egress (mean 101.59 Mbps)
- Flow 2 Ingress (mean 313.50 Mbps)
- Flow 2 Egress (mean 314.14 Mbps)
- Flow 3 Ingress (mean 229.71 Mbps)
- Flow 3 Egress (mean 227.92 Mbps)

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

- Flow 1 (95th percentile 149.87 ms)
- Flow 2 (95th percentile 134.53 ms)
- Flow 3 (95th percentile 133.35 ms)
Run 1: Statistics of Indigo

Start at: 2019-08-27 09:18:45
End at: 2019-08-27 09:19:15
Local clock offset: 0.119 ms
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-08-27 13:27:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.47 Mbit/s
95th percentile per-packet one-way delay: 143.577 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 135.84 Mbit/s
95th percentile per-packet one-way delay: 136.120 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 155.59 Mbit/s
95th percentile per-packet one-way delay: 169.327 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 104.40 Mbit/s
95th percentile per-packet one-way delay: 155.252 ms
Loss rate: 3.56%
Run 1: Report of Indigo — Data Link

![Graph of data link performance over time]

- **Throughput** (Mbps)
  - **Flow 1 ingress (mean 135.93 Mbps)**
  - **Flow 1 egress (mean 135.84 Mbps)**
  - **Flow 2 ingress (mean 135.66 Mbps)**
  - **Flow 2 egress (mean 135.59 Mbps)**
  - **Flow 3 ingress (mean 130.32 Mbps)**
  - **Flow 3 egress (mean 104.40 Mbps)**

- **Per-packet one-way delay (ms)**
  - **Flow 1 (95th percentile 136.12 ms)**
  - **Flow 2 (95th percentile 169.33 ms)**
  - **Flow 3 (95th percentile 155.25 ms)**
Run 2: Statistics of Indigo

Start at: 2019-08-27 10:02:15
End at: 2019-08-27 10:02:45
Local clock offset: 0.33 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-08-27 13:31:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.09 Mbit/s
95th percentile per-packet one-way delay: 134.509 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 135.86 Mbit/s
95th percentile per-packet one-way delay: 134.496 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 159.20 Mbit/s
95th percentile per-packet one-way delay: 134.644 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 111.79 Mbit/s
95th percentile per-packet one-way delay: 134.293 ms
Loss rate: 3.41%
Run 2: Report of Indigo — Data Link

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

Legend:
- **Blue dash**: Flow 1 ingress (mean 135.96 Mbit/s)
- **Blue solid**: Flow 1 egress (mean 135.86 Mbit/s)
- **Green dash**: Flow 2 ingress (mean 159.13 Mbit/s)
- **Green solid**: Flow 2 egress (mean 159.20 Mbit/s)
- **Red dash**: Flow 3 ingress (mean 112.92 Mbit/s)
- **Red solid**: Flow 3 egress (mean 111.79 Mbit/s)

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

Legend:
- **Blue circle**: Flow 1 (95th percentile 134.50 ms)
- **Green circle**: Flow 2 (95th percentile 134.64 ms)
- **Red circle**: Flow 3 (95th percentile 134.29 ms)
Run 3: Statistics of Indigo

Start at: 2019-08-27 10:45:36
End at: 2019-08-27 10:46:06
Local clock offset: 0.586 ms
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-08-27 13:32:33
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 317.60 Mbit/s
  95th percentile per-packet one-way delay: 135.441 ms
  Loss rate: 1.44%
-- Flow 1:
  Average throughput: 154.58 Mbit/s
  95th percentile per-packet one-way delay: 134.461 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 169.27 Mbit/s
  95th percentile per-packet one-way delay: 135.446 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 158.76 Mbit/s
  95th percentile per-packet one-way delay: 142.955 ms
  Loss rate: 3.32%
Run 3: Report of Indigo — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 154.54 Mbps)  Flow 1 egress (mean 154.58 Mbps)
Flow 2 ingress (mean 169.27 Mbps)  Flow 2 egress (mean 169.27 Mbps)
Flow 3 ingress (mean 158.77 Mbps)  Flow 3 egress (mean 158.76 Mbps)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 134.46 ms)  Flow 2 (95th percentile 135.45 ms)
Flow 3 (95th percentile 142.96 ms)
Run 4: Statistics of Indigo

Start at: 2019-08-27 11:29:18
End at: 2019-08-27 11:29:48
Local clock offset: -0.166 ms
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-08-27 13:32:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 317.01 Mbit/s
  95th percentile per-packet one-way delay: 135.446 ms
  Loss rate: 1.39%
-- Flow 1:
  Average throughput: 179.65 Mbit/s
  95th percentile per-packet one-way delay: 134.657 ms
  Loss rate: 0.82%
-- Flow 2:
  Average throughput: 131.14 Mbit/s
  95th percentile per-packet one-way delay: 134.044 ms
  Loss rate: 1.52%
-- Flow 3:
  Average throughput: 157.26 Mbit/s
  95th percentile per-packet one-way delay: 145.282 ms
  Loss rate: 3.13%
Run 4: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 179.52 Mbps)
- Flow 1 egress (mean 179.65 Mbps)
- Flow 2 ingress (mean 131.37 Mbps)
- Flow 2 egress (mean 131.14 Mbps)
- Flow 3 ingress (mean 157.94 Mbps)
- Flow 3 egress (mean 157.26 Mbps)

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

- Flow 1 (95th percentile 134.66 ms)
- Flow 2 (95th percentile 134.04 ms)
- Flow 3 (95th percentile 143.28 ms)
Run 5: Statistics of Indigo

Start at: 2019-08-27 12:12:43
Local clock offset: -0.327 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2019-08-27 13:32:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 262.26 Mbit/s
95th percentile per-packet one-way delay: 133.903 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 153.68 Mbit/s
95th percentile per-packet one-way delay: 133.756 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 127.91 Mbit/s
95th percentile per-packet one-way delay: 133.998 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 72.93 Mbit/s
95th percentile per-packet one-way delay: 134.362 ms
Loss rate: 3.49%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-08-27 09:29:36
End at: 2019-08-27 09:30:06
Local clock offset: -0.128 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2019-08-27 13:36:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 879.85 Mbit/s
  95th percentile per-packet one-way delay: 202.731 ms
  Loss rate: 1.52%
-- Flow 1:
  Average throughput: 523.08 Mbit/s
  95th percentile per-packet one-way delay: 215.578 ms
  Loss rate: 1.16%
-- Flow 2:
  Average throughput: 435.59 Mbit/s
  95th percentile per-packet one-way delay: 141.635 ms
  Loss rate: 1.23%
-- Flow 3:
  Average throughput: 309.48 Mbit/s
  95th percentile per-packet one-way delay: 136.687 ms
  Loss rate: 4.89%
Run 1: Report of Indigo-MusesC3 — Data Link

![Data Link Throughput Graph]

The graph above illustrates the throughput of the data link over time for different flows. The x-axis represents time (s) ranging from 0 to 25 seconds, while the y-axis represents throughput in Mbps. The throughput is measured for three flows, each with distinct ingress and egress rates.

- Flow 1: Ingress (mean 524.14 Mbps) - Egress (mean 523.08 Mbps)
- Flow 2: Ingress (mean 434.61 Mbps) - Egress (mean 435.59 Mbps)
- Flow 3: Ingress (mean 313.30 Mbps) - Egress (mean 309.48 Mbps)

![Data Link Per-Packet One-Way Delay Graph]

The graph below shows the per-packet one-way delay for the same flows. The x-axis represents time (s) ranging from 0 to 25 seconds, while the y-axis represents delay in ms. The 95th percentile delays are indicated for each flow.

- Flow 1: 95th percentile 215.58 ms
- Flow 2: 95th percentile 141.63 ms
- Flow 3: 95th percentile 136.69 ms
Run 2: Statistics of Indigo-MusesC3

Start at: 2019-08-27 10:12:58
Local clock offset: 0.18 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-08-27 13:38:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 880.50 Mbit/s
95th percentile per-packet one-way delay: 202.818 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 525.47 Mbit/s
95th percentile per-packet one-way delay: 212.488 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 431.02 Mbit/s
95th percentile per-packet one-way delay: 162.515 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 308.09 Mbit/s
95th percentile per-packet one-way delay: 139.443 ms
Loss rate: 4.43%
Run 2: Report of Indigo-MusesC3 — Data Link
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-08-27 10:56:28
End at: 2019-08-27 10:56:58
Local clock offset: 0.272 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-08-27 13:38:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 854.75 Mbit/s
95th percentile per-packet one-way delay: 184.421 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 501.56 Mbit/s
95th percentile per-packet one-way delay: 198.451 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 428.43 Mbit/s
95th percentile per-packet one-way delay: 169.727 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 307.07 Mbit/s
95th percentile per-packet one-way delay: 139.370 ms
Loss rate: 4.92%
Run 3: Report of Indigo-MusesC3 — Data Link
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-08-27 11:40:15
End at: 2019-08-27 11:40:45
Local clock offset: -0.22 ms
Remote clock offset: -0.641 ms

# Below is generated by plot.py at 2019-08-27 13:38:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 833.82 Mbit/s
95th percentile per-packet one-way delay: 184.768 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 496.94 Mbit/s
95th percentile per-packet one-way delay: 194.239 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 415.43 Mbit/s
95th percentile per-packet one-way delay: 137.894 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 285.11 Mbit/s
95th percentile per-packet one-way delay: 136.278 ms
Loss rate: 4.03%
Run 4: Report of Indigo-MusesC3 — Data Link

[Graphs showing throughput and packet delay over time for different flows.]
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-08-27 12:23:29
End at: 2019-08-27 12:23:59
Local clock offset: 0.074 ms
Remote clock offset: -0.295 ms

# Below is generated by plot.py at 2019-08-27 13:43:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 878.31 Mbit/s
95th percentile per-packet one-way delay: 191.477 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 512.47 Mbit/s
95th percentile per-packet one-way delay: 194.567 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 445.35 Mbit/s
95th percentile per-packet one-way delay: 190.392 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 307.83 Mbit/s
95th percentile per-packet one-way delay: 136.812 ms
Loss rate: 4.58%
Run 5: Report of Indigo-MusesC3 — Data Link

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

- Flow 1 ingress (mean 512.39 Mbps)
- Flow 1 egress (mean 512.47 Mbps)
- Flow 2 ingress (mean 443.74 Mbps)
- Flow 2 egress (mean 443.55 Mbps)
- Flow 3 ingress (mean 311.14 Mbps)
- Flow 3 egress (mean 307.83 Mbps)

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

- Flow 1 (95th percentile 194.57 ms)
- Flow 2 (95th percentile 190.39 ms)
- Flow 3 (95th percentile 130.81 ms)
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-08-27 09:36:40
End at: 2019-08-27 09:37:10
Local clock offset: -0.383 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-08-27 13:43:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 831.14 Mbit/s
95th percentile per-packet one-way delay: 209.140 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 504.81 Mbit/s
95th percentile per-packet one-way delay: 214.733 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 389.78 Mbit/s
95th percentile per-packet one-way delay: 196.431 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 286.03 Mbit/s
95th percentile per-packet one-way delay: 136.655 ms
Loss rate: 5.52%
Run 1: Report of Indigo-MusesC5 — Data Link

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

- Flow 1 ingress (mean 594.07 Mbps)
- Flow 1 egress (mean 504.81 Mbps)
- Flow 2 ingress (mean 390.79 Mbps)
- Flow 2 egress (mean 389.78 Mbps)
- Flow 3 ingress (mean 292.33 Mbps)
- Flow 3 egress (mean 286.03 Mbps)
Run 2: Statistics of Indigo-MusesC5

Start at: 2019-08-27 10:20:02
End at: 2019-08-27 10:20:32
Local clock offset: 0.218 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-08-27 13:45:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 873.02 Mbit/s
95th percentile per-packet one-way delay: 192.503 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 556.16 Mbit/s
95th percentile per-packet one-way delay: 195.231 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 428.70 Mbit/s
95th percentile per-packet one-way delay: 176.420 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 161.20 Mbit/s
95th percentile per-packet one-way delay: 134.286 ms
Loss rate: 10.46%
Run 2: Report of Indigo-MusesC5 — Data Link

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

- **Flow 1 ingress** (mean 554.74 Mbit/s)
- **Flow 1 egress** (mean 556.16 Mbit/s)
- **Flow 2 ingress** (mean 428.61 Mbit/s)
- **Flow 2 egress** (mean 428.70 Mbit/s)
- **Flow 3 ingress** (mean 173.58 Mbit/s)
- **Flow 3 egress** (mean 161.20 Mbit/s)

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

- **Flow 1** (95th percentile 195.23 ms)
- **Flow 2** (95th percentile 176.42 ms)
- **Flow 3** (95th percentile 134.29 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:03:49
End at: 2019-08-27 11:04:19
Local clock offset: -0.407 ms
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-08-27 13:45:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 760.86 Mbit/s
95th percentile per-packet one-way delay: 200.529 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 497.73 Mbit/s
95th percentile per-packet one-way delay: 206.060 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 365.46 Mbit/s
95th percentile per-packet one-way delay: 145.300 ms
Loss rate: 2.24%
-- Flow 3:
Average throughput: 105.45 Mbit/s
95th percentile per-packet one-way delay: 133.265 ms
Loss rate: 5.93%
Run 3: Report of Indigo-MusesC5 — Data Link

---

**Graph 1:** Throughput (Mbps) vs. Time (s)

- **Flow 1 ingress (mean 495.40 Mbps)**
- **Flow 1 egress (mean 497.73 Mbps)**
- **Flow 2 ingress (mean 368.55 Mbps)**
- **Flow 2 egress (mean 365.46 Mbps)**
- **Flow 3 ingress (mean 108.19 Mbps)**
- **Flow 3 egress (mean 105.45 Mbps)**

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

- **Flow 1 (95th percentile 206.06 ms)**
- **Flow 2 (95th percentile 145.30 ms)**
- **Flow 3 (95th percentile 133.26 ms)**
Run 4: Statistics of Indigo-MusesC5

Start at: 2019-08-27 11:47:21
End at: 2019-08-27 11:47:51
Local clock offset: -0.234 ms
Remote clock offset: -0.306 ms

# Below is generated by plot.py at 2019-08-27 13:47:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 734.16 Mbit/s
95th percentile per-packet one-way delay: 192.849 ms
Loss rate: 0.82%

-- Flow 1:
Average throughput: 479.91 Mbit/s
95th percentile per-packet one-way delay: 195.850 ms
Loss rate: 0.35%

-- Flow 2:
Average throughput: 360.63 Mbit/s
95th percentile per-packet one-way delay: 181.715 ms
Loss rate: 1.36%

-- Flow 3:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 133.396 ms
Loss rate: 4.95%
Run 4: Report of Indigo-MusesC5 — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 476.89 Mbps)
  - Flow 1 egress (mean 479.91 Mbps)
  - Flow 2 ingress (mean 360.25 Mbps)
  - Flow 2 egress (mean 360.63 Mbps)
  - Flow 3 ingress (mean 90.06 Mbps)
  - Flow 3 egress (mean 89.47 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 195.85 ms)
  - Flow 2 (95th percentile 181.72 ms)
  - Flow 3 (95th percentile 133.40 ms)
Run 5: Statistics of Indigo-MusesC5

Start at: 2019-08-27 12:30:55
End at: 2019-08-27 12:31:25
Local clock offset: 0.024 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-08-27 13:49:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 722.59 Mbit/s
  95th percentile per-packet one-way delay: 217.989 ms
  Loss rate: 1.69%
-- Flow 1:
  Average throughput: 444.36 Mbit/s
  95th percentile per-packet one-way delay: 221.744 ms
  Loss rate: 1.21%
-- Flow 2:
  Average throughput: 398.10 Mbit/s
  95th percentile per-packet one-way delay: 182.882 ms
  Loss rate: 2.17%
-- Flow 3:
  Average throughput: 88.41 Mbit/s
  95th percentile per-packet one-way delay: 133.305 ms
  Loss rate: 5.38%
Run 5: Report of Indigo-MusesC5 — Data Link
Run 1: Statistics of Indigo-MusesD

Start at: 2019-08-27 09:20:31
End at: 2019-08-27 09:21:01
Local clock offset: -0.556 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-08-27 13:49:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 772.81 Mbit/s
95th percentile per-packet one-way delay: 186.535 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 487.87 Mbit/s
95th percentile per-packet one-way delay: 189.905 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 375.14 Mbit/s
95th percentile per-packet one-way delay: 168.609 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 172.80 Mbit/s
95th percentile per-packet one-way delay: 141.860 ms
Loss rate: 9.82%

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Run 1: Report of Indigo-MusesD — Data Link
Run 2: Statistics of Indigo-MusesD

Start at: 2019-08-27 10:04:02
End at: 2019-08-27 10:04:32
Local clock offset: -0.006 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-08-27 13:49:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 698.17 Mbit/s
95th percentile per-packet one-way delay: 160.374 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 466.28 Mbit/s
95th percentile per-packet one-way delay: 172.248 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 318.97 Mbit/s
95th percentile per-packet one-way delay: 135.983 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 102.44 Mbit/s
95th percentile per-packet one-way delay: 132.940 ms
Loss rate: 5.10%
Run 2: Report of Indigo-MusesD — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 466.68 Mbit/s)
Flow 1 egress (mean 466.28 Mbit/s)
Flow 2 ingress (mean 315.39 Mbit/s)
Flow 2 egress (mean 318.97 Mbit/s)
Flow 3 ingress (mean 104.04 Mbit/s)
Flow 3 egress (mean 102.44 Mbit/s)

Packet one-way delay (ms)

Flow 1 (95th percentile 172.25 ms)
Flow 2 (95th percentile 135.98 ms)
Flow 3 (95th percentile 132.94 ms)
Run 3: Statistics of Indigo-MusesD

Start at: 2019-08-27 10:47:27
End at: 2019-08-27 10:47:57
Local clock offset: 0.058 ms
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2019-08-27 13:53:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 706.70 Mbit/s
  95th percentile per-packet one-way delay: 202.399 ms
  Loss rate: 1.12%
-- Flow 1:
  Average throughput: 403.13 Mbit/s
  95th percentile per-packet one-way delay: 215.453 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 438.36 Mbit/s
  95th percentile per-packet one-way delay: 149.302 ms
  Loss rate: 1.53%
-- Flow 3:
  Average throughput: 94.24 Mbit/s
  95th percentile per-packet one-way delay: 133.251 ms
  Loss rate: 5.32%
Run 3: Report of Indigo-MusesD — Data Link

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

- Flow 1 ingress (mean 401.58 Mbit/s)
- Flow 1 egress (mean 403.13 Mbit/s)
- Flow 2 ingress (mean 438.59 Mbit/s)
- Flow 2 egress (mean 438.36 Mbit/s)
- Flow 3 ingress (mean 95.93 Mbit/s)
- Flow 3 egress (mean 94.24 Mbit/s)

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

- Flow 1 (95th percentile 215.45 ms)
- Flow 2 (95th percentile 149.30 ms)
- Flow 3 (95th percentile 133.25 ms)
Run 4: Statistics of Indigo-MusesD

Start at: 2019-08-27 11:31:09
End at: 2019-08-27 11:31:39
Local clock offset: -0.61 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2019-08-27 13:54:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 764.45 Mbit/s
  95th percentile per-packet one-way delay: 181.370 ms
  Loss rate: 1.37%
-- Flow 1:
  Average throughput: 476.81 Mbit/s
  95th percentile per-packet one-way delay: 177.694 ms
  Loss rate: 0.97%
-- Flow 2:
  Average throughput: 407.14 Mbit/s
  95th percentile per-packet one-way delay: 206.501 ms
  Loss rate: 1.70%
-- Flow 3:
  Average throughput: 103.29 Mbit/s
  95th percentile per-packet one-way delay: 132.778 ms
  Loss rate: 5.05%
Run 5: Statistics of Indigo-MusesD

Start at: 2019-08-27 12:14:29
End at: 2019-08-27 12:14:59
Local clock offset: -0.278 ms
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-08-27 13:54:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 716.12 Mbit/s
95th percentile per-packet one-way delay: 183.848 ms
Loss rate: 1.48%

-- Flow 1:
Average throughput: 465.72 Mbit/s
95th percentile per-packet one-way delay: 179.460 ms
Loss rate: 1.08%

-- Flow 2:
Average throughput: 353.31 Mbit/s
95th percentile per-packet one-way delay: 206.340 ms
Loss rate: 1.89%

-- Flow 3:
Average throughput: 98.73 Mbit/s
95th percentile per-packet one-way delay: 132.859 ms
Loss rate: 5.09%
Run 5: Report of Indigo-MusesD — Data Link
Run 1: Statistics of Indigo-MusesT

Start at: 2019-08-27 08:54:55
End at: 2019-08-27 08:55:25
Local clock offset: -0.329 ms
Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2019-08-27 13:58:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 913.68 Mbit/s
  95th percentile per-packet one-way delay: 195.425 ms
  Loss rate: 1.69%
-- Flow 1:
  Average throughput: 553.35 Mbit/s
  95th percentile per-packet one-way delay: 191.824 ms
  Loss rate: 1.44%
-- Flow 2:
  Average throughput: 457.50 Mbit/s
  95th percentile per-packet one-way delay: 212.151 ms
  Loss rate: 1.32%
-- Flow 3:
  Average throughput: 276.83 Mbit/s
  95th percentile per-packet one-way delay: 140.984 ms
  Loss rate: 5.28%
Run 1: Report of Indigo-MusesT — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 556.12 Mbps)
- Flow 1 egress (mean 553.35 Mbps)
- Flow 2 ingress (mean 456.77 Mbps)
- Flow 2 egress (mean 457.60 Mbps)
- Flow 3 ingress (mean 281.39 Mbps)
- Flow 3 egress (mean 276.83 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 191.92 ms)
- Flow 2 (95th percentile 212.15 ms)
- Flow 3 (95th percentile 140.98 ms)
Run 2: Statistics of Indigo-MusesT

Start at: 2019-08-27 09:38:41
End at: 2019-08-27 09:39:11
Local clock offset: -0.175 ms
Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2019-08-27 13:59:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 893.51 Mbit/s
  95th percentile per-packet one-way delay: 217.825 ms
  Loss rate: 1.43%
-- Flow 1:
  Average throughput: 572.69 Mbit/s
  95th percentile per-packet one-way delay: 227.156 ms
  Loss rate: 1.27%
-- Flow 2:
  Average throughput: 458.15 Mbit/s
  95th percentile per-packet one-way delay: 188.713 ms
  Loss rate: 1.47%
-- Flow 3:
  Average throughput: 104.67 Mbit/s
  95th percentile per-packet one-way delay: 132.758 ms
  Loss rate: 4.34%
Run 2: Report of Indigo-MusesT — Data Link

![Data Link Throughput Over Time Graph]

- **Flow 1 ingress** (mean 574.56 Mbit/s)
- **Flow 1 egress** (mean 572.69 Mbit/s)
- **Flow 2 ingress** (mean 458.23 Mbit/s)
- **Flow 2 egress** (mean 458.15 Mbit/s)
- **Flow 3 ingress** (mean 105.60 Mbit/s)
- **Flow 3 egress** (mean 104.67 Mbit/s)

![Data Link Per-Packet Delay Over Time Graph]

- **Flow 1** (95th percentile 227.16 ms)
- **Flow 2** (95th percentile 188.71 ms)
- **Flow 3** (95th percentile 132.76 ms)
Run 3: Statistics of Indigo-MusesT

Start at: 2019-08-27 10:22:05
End at: 2019-08-27 10:22:35
Local clock offset: 0.219 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 925.67 Mbit/s
    95th percentile per-packet one-way delay: 200.147 ms
    Loss rate: 1.47%
-- Flow 1:
    Average throughput: 548.70 Mbit/s
    95th percentile per-packet one-way delay: 209.322 ms
    Loss rate: 0.83%
-- Flow 2:
    Average throughput: 471.42 Mbit/s
    95th percentile per-packet one-way delay: 168.364 ms
    Loss rate: 1.71%
-- Flow 3:
    Average throughput: 285.59 Mbit/s
    95th percentile per-packet one-way delay: 136.088 ms
    Loss rate: 4.97%
Run 3: Report of Indigo-MusesT — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress: mean 548.01 Mbps
- Flow 1 egress: mean 548.70 Mbps
- Flow 2 ingress: mean 472.58 Mbps
- Flow 2 egress: mean 471.42 Mbps
- Flow 3 ingress: mean 289.82 Mbps
- Flow 3 egress: mean 285.59 Mbps

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile): 209.32 ms
- Flow 2 (95th percentile): 168.36 ms
- Flow 3 (95th percentile): 136.09 ms
Run 4: Statistics of Indigo-MusesT

Start at: 2019-08-27 11:05:46
End at: 2019-08-27 11:06:16
Local clock offset: -0.231 ms
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 899.40 Mbit/s
  95th percentile per-packet one-way delay: 217.246 ms
  Loss rate: 2.00%
-- Flow 1:
  Average throughput: 561.03 Mbit/s
  95th percentile per-packet one-way delay: 222.036 ms
  Loss rate: 2.19%
-- Flow 2:
  Average throughput: 488.54 Mbit/s
  95th percentile per-packet one-way delay: 148.234 ms
  Loss rate: 1.42%
-- Flow 3:
  Average throughput: 99.46 Mbit/s
  95th percentile per-packet one-way delay: 133.128 ms
  Loss rate: 4.62%
Run 4: Report of Indigo-MusesT — Data Link

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

Start at: 2019-08-27 11:49:16
End at: 2019-08-27 11:49:46
Local clock offset: 0.163 ms
Remote clock offset: -0.26 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 850.67 Mbit/s
95th percentile per-packet one-way delay: 220.627 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 532.48 Mbit/s
95th percentile per-packet one-way delay: 225.839 ms
Loss rate: 1.98%
-- Flow 2:
Average throughput: 456.20 Mbit/s
95th percentile per-packet one-way delay: 181.091 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 100.60 Mbit/s
95th percentile per-packet one-way delay: 133.026 ms
Loss rate: 4.62%
Run 5: Report of Indigo-MusesT — Data Link

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

Legend:
- Flow 1 ingress (mean 338.10 Mbit/s)
- Flow 1 egress (mean 332.48 Mbit/s)
- Flow 2 ingress (mean 456.20 Mbit/s)
- Flow 2 egress (mean 456.20 Mbit/s)
- Flow 3 ingress (mean 101.87 Mbit/s)
- Flow 3 egress (mean 100.60 Mbit/s)
Run 1: Statistics of LEDBAT

Start at: 2019-08-27 09:08:58
End at: 2019-08-27 09:09:28
Local clock offset: -0.048 ms
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 8.01 Mbit/s
  95th percentile per-packet one-way delay: 134.156 ms
  Loss rate: 2.30%
-- Flow 1:
  Average throughput: 5.22 Mbit/s
  95th percentile per-packet one-way delay: 134.274 ms
  Loss rate: 1.78%
-- Flow 2:
  Average throughput: 3.42 Mbit/s
  95th percentile per-packet one-way delay: 133.757 ms
  Loss rate: 2.70%
-- Flow 3:
  Average throughput: 1.66 Mbit/s
  95th percentile per-packet one-way delay: 133.634 ms
  Loss rate: 5.41%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2019-08-27 09:52:10
End at: 2019-08-27 09:52:40
Local clock offset: 0.548 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 134.082 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.064 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 134.137 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 134.073 ms
Loss rate: 5.42%
Run 2: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 5.28 Mbit/s)
- Flow 1 egress (mean 5.23 Mbit/s)
- Flow 2 ingress (mean 3.47 Mbit/s)
- Flow 2 egress (mean 3.43 Mbit/s)
- Flow 3 ingress (mean 1.71 Mbit/s)
- Flow 3 egress (mean 1.66 Mbit/s)
Run 3: Statistics of LEDBAT

Start at: 2019-08-27 10:35:45
End at: 2019-08-27 10:36:15
Local clock offset: 0.131 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 8.07 Mbit/s
  95th percentile per-packet one-way delay: 133.534 ms
  Loss rate: 2.29%
-- Flow 1:
  Average throughput: 5.23 Mbit/s
  95th percentile per-packet one-way delay: 133.384 ms
  Loss rate: 1.78%
-- Flow 2:
  Average throughput: 3.48 Mbit/s
  95th percentile per-packet one-way delay: 133.632 ms
  Loss rate: 2.67%
-- Flow 3:
  Average throughput: 1.67 Mbit/s
  95th percentile per-packet one-way delay: 133.346 ms
  Loss rate: 5.39%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2019-08-27 11:19:27
End at: 2019-08-27 11:19:57
Local clock offset: -0.465 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.07 Mbit/s
95th percentile per-packet one-way delay: 133.775 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 5.23 Mbit/s
95th percentile per-packet one-way delay: 134.014 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 132.790 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 133.237 ms
Loss rate: 5.41%
Run 4: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 5.28 Mbit/s)
- Flow 1 egress (mean 5.23 Mbit/s)
- Flow 2 ingress (mean 3.54 Mbit/s)
- Flow 2 egress (mean 3.49 Mbit/s)
- Flow 3 ingress (mean 1.71 Mbit/s)
- Flow 3 egress (mean 1.66 Mbit/s)
Run 5: Statistics of LEDBAT

Start at: 2019-08-27 12:02:50
End at: 2019-08-27 12:03:20
Local clock offset: -0.289 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2019-08-27 14:02:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 8.06 Mbit/s
  95th percentile per-packet one-way delay: 133.427 ms
  Loss rate: 2.29%
-- Flow 1:
  Average throughput: 5.23 Mbit/s
  95th percentile per-packet one-way delay: 133.596 ms
  Loss rate: 1.78%
-- Flow 2:
  Average throughput: 3.48 Mbit/s
  95th percentile per-packet one-way delay: 133.092 ms
  Loss rate: 2.67%
-- Flow 3:
  Average throughput: 1.67 Mbit/s
  95th percentile per-packet one-way delay: 133.416 ms
  Loss rate: 5.40%
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 09:10:18
End at: 2019-08-27 09:10:48
Local clock offset: -0.188 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-08-27 14:05:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 739.88 Mbit/s
95th percentile per-packet one-way delay: 160.947 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 436.66 Mbit/s
95th percentile per-packet one-way delay: 166.268 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 377.02 Mbit/s
95th percentile per-packet one-way delay: 157.413 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 176.57 Mbit/s
95th percentile per-packet one-way delay: 137.265 ms
Loss rate: 4.80%
Run 1: Report of Muses_DecisionTree — Data Link

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

- Flow 1 ingress (mean 437.48 Mbit/s)
- Flow 1 egress (mean 436.66 Mbit/s)
- Flow 2 ingress (mean 376.54 Mbit/s)
- Flow 2 egress (mean 377.02 Mbit/s)
- Flow 3 ingress (mean 180.23 Mbit/s)
- Flow 3 egress (mean 176.37 Mbit/s)

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

- Flow 1 (95th percentile 166.27 ms)
- Flow 2 (95th percentile 157.41 ms)
- Flow 3 (95th percentile 137.26 ms)
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 09:53:29  
End at: 2019-08-27 09:53:59  
Local clock offset: 0.338 ms  
Remote clock offset: -0.166 ms  

# Below is generated by plot.py at 2019-08-27 14:06:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 796.98 Mbit/s  
95th percentile per-packet one-way delay: 151.155 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 467.34 Mbit/s  
95th percentile per-packet one-way delay: 156.186 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 392.67 Mbit/s  
95th percentile per-packet one-way delay: 134.723 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 225.57 Mbit/s  
95th percentile per-packet one-way delay: 134.648 ms  
Loss rate: 4.18%
Run 3: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 10:37:05
End at: 2019-08-27 10:37:35
Local clock offset: 0.28 ms
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-08-27 14:06:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 737.64 Mbit/s
  95th percentile per-packet one-way delay: 157.205 ms
  Loss rate: 1.22%
-- Flow 1:
  Average throughput: 455.53 Mbit/s
  95th percentile per-packet one-way delay: 156.671 ms
  Loss rate: 0.78%
-- Flow 2:
  Average throughput: 343.30 Mbit/s
  95th percentile per-packet one-way delay: 163.581 ms
  Loss rate: 1.19%
-- Flow 3:
  Average throughput: 177.98 Mbit/s
  95th percentile per-packet one-way delay: 135.131 ms
  Loss rate: 4.79%
Run 3: Report of Muses

DecisionTree — Data Link
Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 11:20:46
End at: 2019-08-27 11:21:16
Local clock offset: -0.263 ms
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2019-08-27 14:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 726.40 Mbit/s
95th percentile per-packet one-way delay: 145.778 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 437.24 Mbit/s
95th percentile per-packet one-way delay: 146.745 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 374.25 Mbit/s
95th percentile per-packet one-way delay: 145.145 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 137.02 Mbit/s
95th percentile per-packet one-way delay: 134.249 ms
Loss rate: 6.17%
Run 4: Report of Muses

DecisionTree — Data Link

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

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Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-08-27 12:04:09
End at: 2019-08-27 12:04:39
Local clock offset: -0.067 ms
Remote clock offset: -0.385 ms

# Below is generated by plot.py at 2019-08-27 14:10:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 723.76 Mbit/s
  95th percentile per-packet one-way delay: 157.426 ms
  Loss rate: 1.43%
-- Flow 1:
  Average throughput: 440.32 Mbit/s
  95th percentile per-packet one-way delay: 162.411 ms
  Loss rate: 0.96%
-- Flow 2:
  Average throughput: 338.26 Mbit/s
  95th percentile per-packet one-way delay: 136.628 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 193.85 Mbit/s
  95th percentile per-packet one-way delay: 135.293 ms
  Loss rate: 5.05%
Run 5: Report of Muses_DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 09:13:34
End at: 2019-08-27 09:14:04
Local clock offset: 0.16 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-08-27 14:10:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 604.63 Mbit/s
  95th percentile per-packet one-way delay: 241.138 ms
  Loss rate: 4.80%
-- Flow 1:
  Average throughput: 271.70 Mbit/s
  95th percentile per-packet one-way delay: 256.073 ms
  Loss rate: 7.79%
-- Flow 2:
  Average throughput: 409.51 Mbit/s
  95th percentile per-packet one-way delay: 149.532 ms
  Loss rate: 1.28%
-- Flow 3:
  Average throughput: 202.59 Mbit/s
  95th percentile per-packet one-way delay: 140.440 ms
  Loss rate: 5.95%
Run 1: Report of Muses_DecisionTreeH0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 09:56:47
End at: 2019-08-27 09:57:17
Local clock offset: 0.285 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-08-27 14:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 768.75 Mbit/s
95th percentile per-packet one-way delay: 189.513 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 457.99 Mbit/s
95th percentile per-packet one-way delay: 192.623 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 376.36 Mbit/s
95th percentile per-packet one-way delay: 193.865 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 204.62 Mbit/s
95th percentile per-packet one-way delay: 134.713 ms
Loss rate: 5.80%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 10:40:21
End at: 2019-08-27 10:40:51
Local clock offset: 0.249 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-08-27 14:13:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 695.19 Mbit/s
95th percentile per-packet one-way delay: 198.848 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 401.84 Mbit/s
95th percentile per-packet one-way delay: 210.748 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 358.83 Mbit/s
95th percentile per-packet one-way delay: 159.264 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 180.66 Mbit/s
95th percentile per-packet one-way delay: 134.892 ms
Loss rate: 6.64%
Run 3: Report of Muses_DecisionTreeH0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 11:24:01
End at: 2019-08-27 11:24:31
Local clock offset: -0.469 ms
Remote clock offset: -0.342 ms

# Below is generated by plot.py at 2019-08-27 14:15:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 676.45 Mbit/s
95th percentile per-packet one-way delay: 204.405 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 367.06 Mbit/s
95th percentile per-packet one-way delay: 218.773 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 371.94 Mbit/s
95th percentile per-packet one-way delay: 170.131 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 203.66 Mbit/s
95th percentile per-packet one-way delay: 135.459 ms
Loss rate: 4.56%
Run 4: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 369.11 Mbit/s) vs. Flow 1 egress (mean 367.06 Mbit/s)
- Flow 2 ingress (mean 372.59 Mbit/s) vs. Flow 2 egress (mean 371.94 Mbit/s)
- Flow 3 ingress (mean 207.42 Mbit/s) vs. Flow 3 egress (mean 203.66 Mbit/s)

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

- Flow 1 (95th percentile 218.77 ms) vs. Flow 2 (95th percentile 170.13 ms) vs. Flow 3 (95th percentile 135.46 ms)
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-08-27 12:07:24
End at: 2019-08-27 12:07:54
Local clock offset: -0.351 ms
Remote clock offset: -0.352 ms

# Below is generated by plot.py at 2019-08-27 14:15:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 607.07 Mbit/s
95th percentile per-packet one-way delay: 220.701 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 306.28 Mbit/s
95th percentile per-packet one-way delay: 234.950 ms
Loss rate: 3.00%
-- Flow 2:
Average throughput: 376.83 Mbit/s
95th percentile per-packet one-way delay: 144.750 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 170.27 Mbit/s
95th percentile per-packet one-way delay: 139.741 ms
Loss rate: 6.44%
Run 5: Report of Muses_DecisionTreeH0 — Data Link
Run 1: Statistics of Muses\_DecisionTreeRO

Start at: 2019-08-27 09:07:00
End at: 2019-08-27 09:07:30
Local clock offset: -0.307 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-08-27 14:17:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 744.28 Mbit/s
95th percentile per-packet one-way delay: 180.079 ms
Loss rate: 1.38%

-- Flow 1:
Average throughput: 444.51 Mbit/s
95th percentile per-packet one-way delay: 184.484 ms
Loss rate: 1.07%

-- Flow 2:
Average throughput: 375.39 Mbit/s
95th percentile per-packet one-way delay: 177.447 ms
Loss rate: 1.30%

-- Flow 3:
Average throughput: 163.89 Mbit/s
95th percentile per-packet one-way delay: 133.875 ms
Loss rate: 4.30%
Run 1: Report of Muses_DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 09:50:11
End at: 2019-08-27 09:50:41
Local clock offset: 0.283 ms
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-08-27 14:20:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 754.47 Mbit/s
95th percentile per-packet one-way delay: 169.025 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 451.53 Mbit/s
95th percentile per-packet one-way delay: 180.352 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 362.43 Mbit/s
95th percentile per-packet one-way delay: 146.449 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 203.87 Mbit/s
95th percentile per-packet one-way delay: 134.863 ms
Loss rate: 4.66%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

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

- Flow 1 ingress (mean 450.82 Mbps)
- Flow 1 egress (mean 451.53 Mbps)
- Flow 2 ingress (mean 362.41 Mbps)
- Flow 2 egress (mean 362.43 Mbps)
- Flow 3 ingress (mean 207.74 Mbps)
- Flow 3 egress (mean 203.87 Mbps)

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

- Flow 1 (95th percentile 180.35 ms)
- Flow 2 (95th percentile 146.45 ms)
- Flow 3 (95th percentile 134.86 ms)
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 10:33:49
End at: 2019-08-27 10:34:19
Local clock offset: 0.67 ms
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-08-27 14:21:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 721.82 Mbit/s
  95th percentile per-packet one-way delay: 166.999 ms
  Loss rate: 1.32%
-- Flow 1:
  Average throughput: 454.87 Mbit/s
  95th percentile per-packet one-way delay: 171.950 ms
  Loss rate: 0.73%
-- Flow 2:
  Average throughput: 318.39 Mbit/s
  95th percentile per-packet one-way delay: 137.995 ms
  Loss rate: 1.36%
-- Flow 3:
  Average throughput: 179.90 Mbit/s
  95th percentile per-packet one-way delay: 135.620 ms
  Loss rate: 5.69%
Run 3: Report of Muses_DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeRO

Start at: 2019-08-27 11:17:31
End at: 2019-08-27 11:18:01
Local clock offset: -0.508 ms
Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-08-27 14:21:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 704.51 Mbit/s
95th percentile per-packet one-way delay: 156.381 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 431.10 Mbit/s
95th percentile per-packet one-way delay: 164.371 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 333.39 Mbit/s
95th percentile per-packet one-way delay: 135.331 ms
Loss rate: 1.64%
-- Flow 3:
Average throughput: 173.94 Mbit/s
95th percentile per-packet one-way delay: 133.908 ms
Loss rate: 5.64%
Run 4: Report of Muses_DecisionTreeR0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-08-27 12:00:53  
End at: 2019-08-27 12:01:23  
Local clock offset: -0.413 ms  
Remote clock offset: -0.296 ms

# Below is generated by plot.py at 2019-08-27 14:22:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 722.62 Mbit/s  
95th percentile per-packet one-way delay: 155.386 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 413.61 Mbit/s  
95th percentile per-packet one-way delay: 163.425 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 403.76 Mbit/s  
95th percentile per-packet one-way delay: 151.259 ms  
Loss rate: 1.48%  
-- Flow 3:  
Average throughput: 144.83 Mbit/s  
95th percentile per-packet one-way delay: 135.243 ms  
Loss rate: 5.64%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows with mean values and 95th percentile delays]

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Run 1: Statistics of PCC-Allegro

Start at: 2019-08-27 09:15:26
End at: 2019-08-27 09:15:56
Local clock offset: -0.366 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-08-27 14:29:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 590.67 Mbit/s
  95th percentile per-packet one-way delay: 222.790 ms
  Loss rate: 2.58%
-- Flow 1:
  Average throughput: 321.32 Mbit/s
  95th percentile per-packet one-way delay: 178.891 ms
  Loss rate: 1.55%
-- Flow 2:
  Average throughput: 296.66 Mbit/s
  95th percentile per-packet one-way delay: 264.005 ms
  Loss rate: 3.23%
-- Flow 3:
  Average throughput: 226.12 Mbit/s
  95th percentile per-packet one-way delay: 249.434 ms
  Loss rate: 5.23%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2019-08-27 09:58:46
End at: 2019-08-27 09:59:16
Local clock offset: 0.189 ms
Remote clock offset: -0.483 ms

# Below is generated by plot.py at 2019-08-27 14:35:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 739.86 Mbit/s
  95th percentile per-packet one-way delay: 267.051 ms
  Loss rate: 5.98%
-- Flow 1:
  Average throughput: 415.30 Mbit/s
  95th percentile per-packet one-way delay: 263.522 ms
  Loss rate: 5.38%
-- Flow 2:
  Average throughput: 381.48 Mbit/s
  95th percentile per-packet one-way delay: 267.328 ms
  Loss rate: 6.80%
-- Flow 3:
  Average throughput: 223.36 Mbit/s
  95th percentile per-packet one-way delay: 305.532 ms
  Loss rate: 6.51%
Run 2: Report of PCC-Allegro — Data Link

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

Throughput (Mbps)

Flow 1 ingress (mean 435.00 Mbps)  Flow 1 egress (mean 415.30 Mbps)
Flow 2 ingress (mean 493.82 Mbps)  Flow 2 egress (mean 381.48 Mbps)
Flow 3 ingress (mean 232.43 Mbps)  Flow 3 egress (mean 223.36 Mbps)

Delay (ms)

Flow 1 (95th percentile 263.52 ms)  Flow 2 (95th percentile 267.33 ms)  Flow 3 (95th percentile 305.53 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2019-08-27 10:42:16
End at: 2019-08-27 10:42:46
Local clock offset: 0.484 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-08-27 14:35:32
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 607.76 Mbit/s
   95th percentile per-packet one-way delay: 243.282 ms
   Loss rate: 3.80%
-- Flow 1:
   Average throughput: 334.89 Mbit/s
   95th percentile per-packet one-way delay: 245.544 ms
   Loss rate: 3.77%
-- Flow 2:
   Average throughput: 303.04 Mbit/s
   95th percentile per-packet one-way delay: 183.381 ms
   Loss rate: 2.72%
-- Flow 3:
   Average throughput: 223.42 Mbit/s
   95th percentile per-packet one-way delay: 248.832 ms
   Loss rate: 6.82%
Run 3: Report of PCC-Allegro — Data Link

![Graph of Throughput vs Time](image1)

![Graph of Packet Delay vs Time](image2)

- Flow 1 ingress (mean 344.90 Mbit/s)
- Flow 1 egress (mean 334.89 Mbit/s)
- Flow 2 ingress (mean 307.34 Mbit/s)
- Flow 2 egress (mean 303.04 Mbit/s)
- Flow 3 ingress (mean 233.25 Mbit/s)
- Flow 3 egress (mean 223.42 Mbit/s)

- Flow 1 (95th percentile 245.54 ms)
- Flow 2 (95th percentile 183.38 ms)
- Flow 3 (95th percentile 248.83 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2019-08-27 11:25:56
End at: 2019-08-27 11:26:26
Local clock offset: 0.06 ms
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2019-08-27 14:35:39
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 638.11 Mbit/s
   95th percentile per-packet one-way delay: 233.202 ms
   Loss rate: 2.54%
-- Flow 1:
   Average throughput: 364.80 Mbit/s
   95th percentile per-packet one-way delay: 239.377 ms
   Loss rate: 2.37%
-- Flow 2:
   Average throughput: 301.99 Mbit/s
   95th percentile per-packet one-way delay: 171.372 ms
   Loss rate: 2.27%
-- Flow 3:
   Average throughput: 227.32 Mbit/s
   95th percentile per-packet one-way delay: 227.167 ms
   Loss rate: 4.05%
Run 4: Report of PCC-Allegro — Data Link

![Throughput Graph]

- **Flow 1 ingress (mean 370.30 Mbit/s)**
- **Flow 1 egress (mean 364.80 Mbit/s)**
- **Flow 2 ingress (mean 304.83 Mbit/s)**
- **Flow 2 egress (mean 301.99 Mbit/s)**
- **Flow 3 ingress (mean 230.47 Mbit/s)**
- **Flow 3 egress (mean 227.32 Mbit/s)**

![Latency Graph]

- **Flow 1 (95th percentile 239.38 ms)**
- **Flow 2 (95th percentile 171.37 ms)**
- **Flow 3 (95th percentile 227.17 ms)**
Run 5: Statistics of PCC-Allegro

Start at: 2019-08-27 12:09:15
End at: 2019-08-27 12:09:45
Local clock offset: 0.017 ms
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2019-08-27 14:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 701.32 Mbit/s
95th percentile per-packet one-way delay: 260.914 ms
Loss rate: 5.93%
-- Flow 1:
Average throughput: 405.76 Mbit/s
95th percentile per-packet one-way delay: 264.498 ms
Loss rate: 7.40%
-- Flow 2:
Average throughput: 333.21 Mbit/s
95th percentile per-packet one-way delay: 241.706 ms
Loss rate: 3.61%
-- Flow 3:
Average throughput: 231.93 Mbit/s
95th percentile per-packet one-way delay: 242.409 ms
Loss rate: 4.42%
Run 5: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress (mean 434.30 Mbps)**
- **Flow 1 egress (mean 405.76 Mbps)**
- **Flow 2 ingress (mean 341.09 Mbps)**
- **Flow 2 egress (mean 333.21 Mbps)**
- **Flow 3 ingress (mean 236.08 Mbps)**
- **Flow 3 egress (mean 231.93 Mbps)**

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

- **Flow 1 (95th percentile 264.50 ms)**
- **Flow 2 (95th percentile 241.71 ms)**
- **Flow 3 (95th percentile 242.41 ms)**

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Run 1: Statistics of PCC-Expr

Start at: 2019-08-27 09:01:02
End at: 2019-08-27 09:01:32
Local clock offset: -0.198 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-08-27 14:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 518.78 Mbit/s
95th percentile per-packet one-way delay: 217.105 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 300.46 Mbit/s
95th percentile per-packet one-way delay: 203.630 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 257.85 Mbit/s
95th percentile per-packet one-way delay: 249.332 ms
Loss rate: 3.99%
-- Flow 3:
Average throughput: 147.54 Mbit/s
95th percentile per-packet one-way delay: 148.965 ms
Loss rate: 3.56%
Run 1: Report of PCC-Expr — Data Link

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

Legend:
- Flow 1 ingress (mean 300.76 Mbit/s)
- Flow 1 egress (mean 300.46 Mbit/s)
- Flow 2 ingress (mean 264.95 Mbit/s)
- Flow 2 egress (mean 257.95 Mbit/s)
- Flow 3 ingress (mean 148.64 Mbit/s)
- Flow 3 egress (mean 147.54 Mbit/s)
Run 2: Statistics of PCC-Expr

Start at: 2019-08-27 09:44:34
End at: 2019-08-27 09:45:04
Local clock offset: 0.34 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-08-27 14:40:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 523.45 Mbit/s
  95th percentile per-packet one-way delay: 212.158 ms
  Loss rate: 1.58%
-- Flow 1:
  Average throughput: 293.80 Mbit/s
  95th percentile per-packet one-way delay: 176.579 ms
  Loss rate: 0.94%
-- Flow 2:
  Average throughput: 274.15 Mbit/s
  95th percentile per-packet one-way delay: 221.816 ms
  Loss rate: 2.10%
-- Flow 3:
  Average throughput: 148.65 Mbit/s
  95th percentile per-packet one-way delay: 161.203 ms
  Loss rate: 3.46%
Run 2: Report of PCC-Expr — Data Link

Throughput (Mbit/s)

Time (s)

- Flow 1 ingress (mean 293.91 Mbit/s)
- Flow 1 egress (mean 293.80 Mbit/s)
- Flow 2 ingress (mean 276.27 Mbit/s)
- Flow 2 egress (mean 274.15 Mbit/s)
- Flow 3 ingress (mean 149.82 Mbit/s)
- Flow 3 egress (mean 148.65 Mbit/s)

Per-packet mean delay (ms)

Time (s)

- Flow 1 (95th percentile 176.58 ms)
- Flow 2 (95th percentile 221.82 ms)
- Flow 3 (95th percentile 161.20 ms)
Run 3: Statistics of PCC-Expr

Start at: 2019-08-27 10:27:56
End at: 2019-08-27 10:28:26
Local clock offset: -0.133 ms
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-08-27 14:40:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.16 Mbit/s
95th percentile per-packet one-way delay: 240.066 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 319.53 Mbit/s
95th percentile per-packet one-way delay: 246.423 ms
Loss rate: 5.18%
-- Flow 2:
Average throughput: 186.52 Mbit/s
95th percentile per-packet one-way delay: 134.958 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 213.49 Mbit/s
95th percentile per-packet one-way delay: 234.376 ms
Loss rate: 5.66%
Run 3: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 333.96 Mbit/s)
- Flow 1 egress (mean 319.53 Mbit/s)
- Flow 2 ingress (mean 187.77 Mbit/s)
- Flow 2 egress (mean 186.52 Mbit/s)
- Flow 3 ingress (mean 220.31 Mbit/s)
- Flow 3 egress (mean 213.49 Mbit/s)

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

- Flow 1 (95th percentile 246.42 ms)
- Flow 2 (95th percentile 134.96 ms)
- Flow 3 (95th percentile 234.38 ms)
Run 4: Statistics of PCC-Expr

Start at: 2019-08-27 11:11:31
End at: 2019-08-27 11:12:01
Local clock offset: -0.553 ms
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2019-08-27 14:42:42
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 445.80 Mbit/s
  95th percentile per-packet one-way delay: 218.982 ms
  Loss rate: 3.85%
-- Flow 1:
  Average throughput: 275.14 Mbit/s
  95th percentile per-packet one-way delay: 225.083 ms
  Loss rate: 4.59%
-- Flow 2:
  Average throughput: 186.09 Mbit/s
  95th percentile per-packet one-way delay: 135.398 ms
  Loss rate: 2.26%
-- Flow 3:
  Average throughput: 146.52 Mbit/s
  95th percentile per-packet one-way delay: 154.549 ms
  Loss rate: 3.57%
Run 4: Report of PCC-Expr — Data Link

[Graph 1: Throughput (Mbps) vs Time (s)]
- Flow 1 ingress (mean 285.79 Mbps)
- Flow 1 egress (mean 275.14 Mbps)
- Flow 2 ingress (mean 187.83 Mbps)
- Flow 2 egress (mean 186.09 Mbps)
- Flow 3 ingress (mean 147.83 Mbps)
- Flow 3 egress (mean 146.52 Mbps)

[Graph 2: Per packet one-way delay (ms) vs Time (s)]
- Flow 1 (95th percentile 225.08 ms)
- Flow 2 (95th percentile 135.40 ms)
- Flow 3 (95th percentile 154.55 ms)
Run 5: Statistics of PCC-Expr

Start at: 2019-08-27 11:54:57
Local clock offset: -0.19 ms
Remote clock offset: -0.332 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 464.63 Mbit/s
  95th percentile per-packet one-way delay: 183.505 ms
  Loss rate: 2.71%
-- Flow 1:
  Average throughput: 294.04 Mbit/s
  95th percentile per-packet one-way delay: 183.180 ms
  Loss rate: 2.10%
-- Flow 2:
  Average throughput: 187.41 Mbit/s
  95th percentile per-packet one-way delay: 150.608 ms
  Loss rate: 3.23%
-- Flow 3:
  Average throughput: 143.60 Mbit/s
  95th percentile per-packet one-way delay: 250.582 ms
  Loss rate: 5.11%
Run 5: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 297.67 Mbit/s)
- Flow 1 egress (mean 294.04 Mbit/s)
- Flow 2 ingress (mean 191.06 Mbit/s)
- Flow 2 egress (mean 187.41 Mbit/s)
- Flow 3 ingress (mean 147.28 Mbit/s)
- Flow 3 egress (mean 143.60 Mbit/s)

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

- Flow 1 (95th percentile 183.18 ms)
- Flow 2 (95th percentile 150.61 ms)
- Flow 3 (95th percentile 250.58 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2019-08-27 09:35:15  
End at: 2019-08-27 09:35:45  
Local clock offset: 0.165 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-08-27 14:45:10  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 119.49 Mbit/s  
95th percentile per-packet one-way delay: 133.454 ms  
Loss rate: 1.33%
-- Flow 1:
Average throughput: 64.91 Mbit/s  
95th percentile per-packet one-way delay: 133.465 ms  
Loss rate: 1.09%
-- Flow 2:
Average throughput: 62.18 Mbit/s  
95th percentile per-packet one-way delay: 133.443 ms  
Loss rate: 0.19%
-- Flow 3:
Average throughput: 34.92 Mbit/s  
95th percentile per-packet one-way delay: 132.656 ms  
Loss rate: 6.39%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2019-08-27 10:18:35
End at: 2019-08-27 10:19:05
Local clock offset: -0.235 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.68 Mbit/s
95th percentile per-packet one-way delay: 131.832 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 131.846 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 131.501 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 60.58 Mbit/s
95th percentile per-packet one-way delay: 131.831 ms
Loss rate: 2.85%
Run 2: Report of QUIC Cubic — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per-packet one-way delay (ms)]
Run 3: Statistics of QUIC Cubic

Start at: 2019-08-27 11:02:24
End at: 2019-08-27 11:02:54
Local clock offset: 0.149 ms
Remote clock offset: -0.408 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.85 Mbit/s
95th percentile per-packet one-way delay: 133.319 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 56.15 Mbit/s
95th percentile per-packet one-way delay: 132.797 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 132.766 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 133.352 ms
Loss rate: 0.23%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-08-27 11:45:56
End at: 2019-08-27 11:46:26
Local clock offset: -0.648 ms
Remote clock offset: -0.276 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 107.62 Mbit/s
  95th percentile per-packet one-way delay: 132.405 ms
  Loss rate: 1.48%
-- Flow 1:
  Average throughput: 51.49 Mbit/s
  95th percentile per-packet one-way delay: 131.557 ms
  Loss rate: 1.35%
-- Flow 2:
  Average throughput: 53.48 Mbit/s
  95th percentile per-packet one-way delay: 132.432 ms
  Loss rate: 1.98%
-- Flow 3:
  Average throughput: 63.65 Mbit/s
  95th percentile per-packet one-way delay: 131.822 ms
  Loss rate: 0.90%
Run 4: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 51.73 Mbit/s)**
- **Flow 1 egress (mean 51.49 Mbit/s)**
- **Flow 2 ingress (mean 53.84 Mbit/s)**
- **Flow 2 egress (mean 53.45 Mbit/s)**
- **Flow 3 ingress (mean 62.51 Mbit/s)**
- **Flow 3 egress (mean 63.65 Mbit/s)**
Run 5: Statistics of QUIC Cubic

Start at: 2019-08-27 12:29:31
End at: 2019-08-27 12:30:01
Local clock offset: -0.0 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 113.82 Mbit/s
  95th percentile per-packet one-way delay: 132.946 ms
  Loss rate: 1.87%
-- Flow 1:
  Average throughput: 62.64 Mbit/s
  95th percentile per-packet one-way delay: 132.964 ms
  Loss rate: 1.15%
-- Flow 2:
  Average throughput: 56.50 Mbit/s
  95th percentile per-packet one-way delay: 132.463 ms
  Loss rate: 1.85%
-- Flow 3:
  Average throughput: 42.31 Mbit/s
  95th percentile per-packet one-way delay: 132.772 ms
  Loss rate: 5.13%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2019-08-27 09:12:16
End at: 2019-08-27 09:12:46
Local clock offset: -0.329 ms
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 133.166 ms
  Loss rate: 1.27%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 133.093 ms
  Loss rate: 0.88%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 133.199 ms
  Loss rate: 1.39%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 133.152 ms
  Loss rate: 2.12%
Run 2: Statistics of SCReAM

Start at: 2019-08-27 09:55:30
End at: 2019-08-27 09:56:00
Local clock offset: -0.37 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 132.659 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.678 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.586 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 132.641 ms
Loss rate: 2.44%
Run 2: Report of SCReAM — Data Link

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

Start at: 2019-08-27 10:39:03
End at: 2019-08-27 10:39:33
Local clock offset: 0.575 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 133.499 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.521 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.887 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.422 ms
Loss rate: 2.44%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

End at: 2019-08-27 11:23:14
Local clock offset: -0.321 ms
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 133.118 ms
  Loss rate: 1.26%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 133.124 ms
  Loss rate: 0.88%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 133.056 ms
  Loss rate: 1.39%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 133.162 ms
  Loss rate: 2.12%
Run 5: Statistics of SCReAM

Start at: 2019-08-27 12:06:06
End at: 2019-08-27 12:06:36
Local clock offset: -0.435 ms
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 132.918 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.769 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.724 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 133.009 ms
Loss rate: 2.45%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2019-08-27 09:17:27
End at: 2019-08-27 09:17:57
Local clock offset: -0.563 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.35 Mbit/s
  95th percentile per-packet one-way delay: 132.987 ms
  Loss rate: 1.25%
-- Flow 1:
  Average throughput: 0.80 Mbit/s
  95th percentile per-packet one-way delay: 133.020 ms
  Loss rate: 1.06%
-- Flow 2:
  Average throughput: 0.50 Mbit/s
  95th percentile per-packet one-way delay: 132.922 ms
  Loss rate: 0.81%
-- Flow 3:
  Average throughput: 0.67 Mbit/s
  95th percentile per-packet one-way delay: 132.316 ms
  Loss rate: 2.61%
Run 1: Report of Sprout — Data Link

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Graph 1: Throughput (Mbps)

- Flow 1 ingress (mean 0.80 Mbps)
- Flow 1 egress (mean 0.80 Mbps)
- Flow 2 ingress (mean 0.50 Mbps)
- Flow 2 egress (mean 0.50 Mbps)
- Flow 3 ingress (mean 0.67 Mbps)
- Flow 3 egress (mean 0.67 Mbps)

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

- Flow 1 (95th percentile 133.02 ms)
- Flow 2 (95th percentile 132.92 ms)
- Flow 3 (95th percentile 132.32 ms)

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Run 2: Statistics of Sprout

Start at: 2019-08-27 10:00:56
End at: 2019-08-27 10:01:26
Local clock offset: -0.052 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 133.114 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 132.501 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 133.090 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.190 ms
Loss rate: 3.15%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 0.71 Mbit/s)
- Flow 1 egress (mean 0.71 Mbit/s)
- Flow 2 ingress (mean 0.58 Mbit/s)
- Flow 2 egress (mean 0.58 Mbit/s)
- Flow 3 ingress (mean 0.69 Mbit/s)
- Flow 3 egress (mean 0.69 Mbit/s)

![Graph 2: End-to-end delay vs Time](image2)

- Flow 1 (95th percentile 132.50 ms)
- Flow 2 (95th percentile 133.09 ms)
- Flow 3 (95th percentile 133.19 ms)
Run 3: Statistics of Sprout

Start at: 2019-08-27 10:44:18
End at: 2019-08-27 10:44:48
Local clock offset: 0.396 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 133.479 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 133.494 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 133.308 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.327 ms
Loss rate: 2.97%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2019-08-27 11:28:00
End at: 2019-08-27 11:28:30
Local clock offset: -0.375 ms
Remote clock offset: -0.313 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 133.244 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.281 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 133.204 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 133.215 ms
Loss rate: 2.40%
Run 4: Report of Sprout — Data Link

[Graphs showing throughput and per-packet round-trip delay over time for different flows.]
Run 5: Statistics of Sprout

Start at: 2019-08-27 12:11:25
End at: 2019-08-27 12:11:55
Local clock offset: -0.254 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-08-27 14:45:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 132.675 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 132.721 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 132.578 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 131.775 ms
Loss rate: 2.74%
Run 5: Report of Sprout — Data Link

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

![Graph 2: One-Way Delay vs. Time (ms)]
Run 1: Statistics of TaoVA-100x

Start at: 2019-08-27 09:22:30
End at: 2019-08-27 09:23:00
Local clock offset: -0.606 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-08-27 14:48:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 407.78 Mbit/s
  95th percentile per-packet one-way delay: 133.804 ms
  Loss rate: 1.27%
-- Flow 1:
  Average throughput: 231.23 Mbit/s
  95th percentile per-packet one-way delay: 133.197 ms
  Loss rate: 0.88%
-- Flow 2:
  Average throughput: 224.21 Mbit/s
  95th percentile per-packet one-way delay: 135.422 ms
  Loss rate: 1.54%
-- Flow 3:
  Average throughput: 85.39 Mbit/s
  95th percentile per-packet one-way delay: 131.964 ms
  Loss rate: 3.01%
Run 1: Report of TaoVA-100x — Data Link

![Graph of throughput over time for Flow 1, Flow 2, and Flow 3 ingress and egress with annotations for mean throughput and 95th percentile delay.]

![Graph of per-packet one-way delay over time for Flow 1, Flow 2, and Flow 3 with annotations for 95th percentile delay.]

Throughput (Mbit/s) vs. Time (s) for each flow:
- Flow 1 ingress (mean 231.24 Mbit/s)
- Flow 1 egress (mean 231.23 Mbit/s)
- Flow 2 ingress (mean 224.71 Mbit/s)
- Flow 2 egress (mean 224.21 Mbit/s)
- Flow 3 ingress (mean 85.70 Mbit/s)
- Flow 3 egress (mean 85.39 Mbit/s)

Per-packet one-way delay (ms) vs. Time (s) for each flow:
- Flow 1 (95th percentile 133.20 ms)
- Flow 2 (95th percentile 135.42 ms)
- Flow 3 (95th percentile 131.96 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2019-08-27 10:05:56
End at: 2019-08-27 10:06:26
Local clock offset: 0.124 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-08-27 14:48:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 316.24 Mbit/s
  95th percentile per-packet one-way delay: 132.852 ms
  Loss rate: 1.61%
-- Flow 1:
  Average throughput: 89.39 Mbit/s
  95th percentile per-packet one-way delay: 132.870 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 232.59 Mbit/s
  95th percentile per-packet one-way delay: 132.037 ms
  Loss rate: 1.35%
-- Flow 3:
  Average throughput: 222.52 Mbit/s
  95th percentile per-packet one-way delay: 132.794 ms
  Loss rate: 2.96%
Run 2: Report of TaoVA-100x — Data Link

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**Throughput (Mbit/s):**

- Flow 1 ingress (mean 89.42 Mbit/s)
- Flow 1 egress (mean 89.39 Mbit/s)
- Flow 2 ingress (mean 232.61 Mbit/s)
- Flow 2 egress (mean 232.59 Mbit/s)
- Flow 3 ingress (mean 223.11 Mbit/s)
- Flow 3 egress (mean 222.52 Mbit/s)

---

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

- Flow 1 (95th percentile 132.97 ms)
- Flow 2 (95th percentile 132.04 ms)
- Flow 3 (95th percentile 132.79 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2019-08-27 10:49:21
End at: 2019-08-27 10:49:51
Local clock offset: 0.018 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2019-08-27 14:49:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.04 Mbit/s
95th percentile per-packet one-way delay: 132.982 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 211.60 Mbit/s
95th percentile per-packet one-way delay: 133.046 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 226.80 Mbit/s
95th percentile per-packet one-way delay: 132.927 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 220.75 Mbit/s
95th percentile per-packet one-way delay: 132.699 ms
Loss rate: 3.02%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2019-08-27 11:33:06
End at: 2019-08-27 11:33:36
Local clock offset: -0.146 ms
Remote clock offset: -0.326 ms

# Below is generated by plot.py at 2019-08-27 14:50:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 452.90 Mbit/s
95th percentile per-packet one-way delay: 133.029 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 233.31 Mbit/s
95th percentile per-packet one-way delay: 133.056 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 225.98 Mbit/s
95th percentile per-packet one-way delay: 132.626 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 213.81 Mbit/s
95th percentile per-packet one-way delay: 132.980 ms
Loss rate: 2.98%
Run 4: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 233.17 Mbit/s) — Flow 1 egress (mean 233.31 Mbit/s)
Flow 2 ingress (mean 226.28 Mbit/s) — Flow 2 egress (mean 225.98 Mbit/s)
Flow 3 ingress (mean 214.48 Mbit/s) — Flow 3 egress (mean 213.61 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 133.06 ms) — Flow 2 (95th percentile 132.63 ms) — Flow 3 (95th percentile 132.98 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2019-08-27 12:16:24
End at: 2019-08-27 12:16:54
Local clock offset: 0.428 ms
Remote clock offset: -0.323 ms

# Below is generated by plot.py at 2019-08-27 14:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.40 Mbit/s
95th percentile per-packet one-way delay: 133.550 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 225.40 Mbit/s
95th percentile per-packet one-way delay: 133.420 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 221.68 Mbit/s
95th percentile per-packet one-way delay: 133.631 ms
Loss rate: 1.58%
-- Flow 3:
Average throughput: 193.21 Mbit/s
95th percentile per-packet one-way delay: 132.798 ms
Loss rate: 3.48%
Run 5: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 225.53 Mbps)
  - Flow 1 egress (mean 225.40 Mbps)
  - Flow 2 ingress (mean 222.22 Mbps)
  - Flow 2 egress (mean 221.68 Mbps)
  - Flow 3 ingress (mean 194.84 Mbps)
  - Flow 3 egress (mean 193.22 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 133.42 ms)
  - Flow 2 (95th percentile 133.63 ms)
  - Flow 3 (95th percentile 132.80 ms)
Run 1: Statistics of TCP Vegas

Start at: 2019-08-27 09:03:11
End at: 2019-08-27 09:03:41
Local clock offset: -0.135 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-08-27 14:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 679.22 Mbit/s
95th percentile per-packet one-way delay: 150.281 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 401.20 Mbit/s
95th percentile per-packet one-way delay: 135.253 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 278.18 Mbit/s
95th percentile per-packet one-way delay: 170.731 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 286.64 Mbit/s
95th percentile per-packet one-way delay: 210.282 ms
Loss rate: 4.04%
Run 1: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 401.57 Mbit/s)
- Flow 1 egress (mean 401.20 Mbit/s)
- Flow 2 ingress (mean 277.91 Mbit/s)
- Flow 2 egress (mean 278.18 Mbit/s)
- Flow 3 ingress (mean 290.76 Mbit/s)
- Flow 3 egress (mean 286.64 Mbit/s)
Run 2: Statistics of TCP Vegas

Start at: 2019-08-27 09:46:42
End at: 2019-08-27 09:47:12
Local clock offset: 0.06 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-08-27 14:52:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 597.37 Mbit/s
95th percentile per-packet one-way delay: 140.342 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 346.38 Mbit/s
95th percentile per-packet one-way delay: 135.613 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 254.71 Mbit/s
95th percentile per-packet one-way delay: 144.704 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 251.40 Mbit/s
95th percentile per-packet one-way delay: 180.704 ms
Loss rate: 3.66%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2019-08-27 10:30:04
End at: 2019-08-27 10:30:34
Local clock offset: -0.122 ms
Remote clock offset: 0.234 ms

# Below is generated by plot.py at 2019-08-27 14:54:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.33 Mbit/s
95th percentile per-packet one-way delay: 162.643 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 220.98 Mbit/s
95th percentile per-packet one-way delay: 170.722 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 394.46 Mbit/s
95th percentile per-packet one-way delay: 162.265 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 234.52 Mbit/s
95th percentile per-packet one-way delay: 151.113 ms
Loss rate: 3.51%
Run 3: Report of TCP Vegas — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 220.73 Mbps)
- Flow 1 egress (mean 220.98 Mbps)
- Flow 2 ingress (mean 394.14 Mbps)
- Flow 2 egress (mean 394.46 Mbps)
- Flow 3 ingress (mean 236.81 Mbps)
- Flow 3 egress (mean 234.52 Mbps)

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 170.72 ms)
- Flow 2 (95th percentile 162.26 ms)
- Flow 3 (95th percentile 151.11 ms)
Run 4: Statistics of TCP Vegas

Start at: 2019-08-27 11:13:34
End at: 2019-08-27 11:14:04
Local clock offset: -0.204 ms
Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2019-08-27 14:58:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 761.79 Mbit/s
95th percentile per-packet one-way delay: 175.468 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 436.76 Mbit/s
95th percentile per-packet one-way delay: 177.199 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 360.65 Mbit/s
95th percentile per-packet one-way delay: 144.407 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 263.06 Mbit/s
95th percentile per-packet one-way delay: 214.634 ms
Loss rate: 3.65%
Run 4: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 436.08 Mbit/s)
Flow 1 egress (mean 436.76 Mbit/s)
Flow 2 ingress (mean 359.11 Mbit/s)
Flow 2 egress (mean 360.05 Mbit/s)
Flow 3 ingress (mean 265.72 Mbit/s)
Flow 3 egress (mean 263.06 Mbit/s)

Delay (ms)

Time (s)

Flow 1 (95th percentile 177.20 ms)
Flow 2 (95th percentile 144.41 ms)
Flow 3 (95th percentile 214.63 ms)
Run 5: Statistics of TCP Vegas

Start at: 2019-08-27 11:57:01
End at: 2019-08-27 11:57:31
Local clock offset: 0.325 ms
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2019-08-27 14:59:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 697.51 Mbit/s
95th percentile per-packet one-way delay: 160.008 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 329.36 Mbit/s
95th percentile per-packet one-way delay: 135.497 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 456.32 Mbit/s
95th percentile per-packet one-way delay: 168.039 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 200.41 Mbit/s
95th percentile per-packet one-way delay: 134.044 ms
Loss rate: 3.53%
Run 5: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2019-08-27 09:24:29
End at: 2019-08-27 09:24:59
Local clock offset: -0.271 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-08-27 14:59:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.07 Mbit/s
95th percentile per-packet one-way delay: 142.935 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 138.551 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 138.59 Mbit/s
95th percentile per-packet one-way delay: 145.544 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 148.096 ms
Loss rate: 6.52%
Run 1: Report of Verus — Data Link

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

- Flow 1 ingress (mean 61.94 Mbit/s)
- Flow 1 egress (mean 61.55 Mbit/s)
- Flow 2 ingress (mean 139.28 Mbit/s)
- Flow 2 egress (mean 138.59 Mbit/s)
- Flow 3 ingress (mean 39.99 Mbit/s)
- Flow 3 egress (mean 38.40 Mbit/s)

- Flow 1 (95th percentile 138.55 ms)
- Flow 2 (95th percentile 145.54 ms)
- Flow 3 (95th percentile 149.10 ms)
Run 2: Statistics of Verus

Start at: 2019-08-27 10:07:47
End at: 2019-08-27 10:08:17
Local clock offset: 0.579 ms
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-08-27 14:59:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.86 Mbit/s
95th percentile per-packet one-way delay: 216.893 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 152.33 Mbit/s
95th percentile per-packet one-way delay: 222.285 ms
Loss rate: 1.40%
-- Flow 2:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 136.765 ms
Loss rate: 3.08%
-- Flow 3:
Average throughput: 28.78 Mbit/s
95th percentile per-packet one-way delay: 140.775 ms
Loss rate: 10.65%
Run 2: Report of Verus — Data Link

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

- **Flow 1 ingress** (mean 153.70 Mbit/s)
- **Flow 1 egress** (mean 152.33 Mbit/s)
- **Flow 2 ingress** (mean 54.00 Mbit/s)
- **Flow 2 egress** (mean 53.06 Mbit/s)
- **Flow 3 ingress** (mean 31.49 Mbit/s)
- **Flow 3 egress** (mean 28.76 Mbit/s)
Run 3: Statistics of Verus

Start at: 2019-08-27 10:51:23  
End at: 2019-08-27 10:51:53  
Local clock offset: -0.336 ms  
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2019-08-27 14:59:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 185.99 Mbit/s  
95th percentile per-packet one-way delay: 211.366 ms  
Loss rate: 3.30%  
-- Flow 1:  
Average throughput: 138.90 Mbit/s  
95th percentile per-packet one-way delay: 167.205 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 52.42 Mbit/s  
95th percentile per-packet one-way delay: 285.877 ms  
Loss rate: 14.92%  
-- Flow 3:  
Average throughput: 39.82 Mbit/s  
95th percentile per-packet one-way delay: 141.172 ms  
Loss rate: 1.74%
Run 3: Report of Verus — Data Link

Throughput (Mb/s) vs Time (s)

- Flow 1 ingress (mean 137.69 Mb/s)
- Flow 1 egress (mean 138.90 Mb/s)
- Flow 2 ingress (mean 60.79 Mb/s)
- Flow 2 egress (mean 52.42 Mb/s)
- Flow 3 ingress (mean 39.42 Mb/s)
- Flow 3 egress (mean 39.82 Mb/s)

Packet Error Rate (PER) vs Time (s)

- Flow 1 (95th percentile 167.21 ms)
- Flow 2 (95th percentile 285.88 ms)
- Flow 3 (95th percentile 141.17 ms)
Run 4: Statistics of Verus

Start at: 2019-08-27 11:35:10
End at: 2019-08-27 11:35:40
Local clock offset: 0.137 ms
Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2019-08-27 14:59:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 157.95 Mbit/s
  95th percentile per-packet one-way delay: 208.068 ms
  Loss rate: 1.15%
-- Flow 1:
  Average throughput: 86.16 Mbit/s
  95th percentile per-packet one-way delay: 168.849 ms
  Loss rate: 1.70%
-- Flow 2:
  Average throughput: 40.05 Mbit/s
  95th percentile per-packet one-way delay: 136.069 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 139.71 Mbit/s
  95th percentile per-packet one-way delay: 227.679 ms
  Loss rate: 0.76%
Run 4: Report of Verus — Data Link

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

Flow 1 ingress (mean 86.97 Mbit/s)  Flow 1 egress (mean 86.16 Mbit/s)
Flow 2 ingress (mean 39.53 Mbit/s)  Flow 2 egress (mean 40.05 Mbit/s)
Flow 3 ingress (mean 136.21 Mbit/s)  Flow 3 egress (mean 139.71 Mbit/s)

Packet loss over time for different flows.

Flow 1 (95th percentile 168.85 ms)  Flow 2 (95th percentile 136.07 ms)  Flow 3 (95th percentile 227.68 ms)
Run 5: Statistics of Verus

Start at: 2019-08-27 12:18:26
End at: 2019-08-27 12:18:56
Local clock offset: -0.439 ms
Remote clock offset: -0.678 ms

# Below is generated by plot.py at 2019-08-27 14:59:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.98 Mbit/s
95th percentile per-packet one-way delay: 236.329 ms
Loss rate: 2.27%

-- Flow 1:
Average throughput: 137.65 Mbit/s
95th percentile per-packet one-way delay: 253.071 ms
Loss rate: 2.82%

-- Flow 2:
Average throughput: 136.77 Mbit/s
95th percentile per-packet one-way delay: 206.620 ms
Loss rate: 0.74%

-- Flow 3:
Average throughput: 43.15 Mbit/s
95th percentile per-packet one-way delay: 248.573 ms
Loss rate: 6.50%
Run 5: Report of Verus — Data Link

![Graph showing throughput and packet delay data for different flows over time.](image_url)
Run 1: Statistics of PCC-Vivace

Start at: 2019-08-27 09:05:07
End at: 2019-08-27 09:05:37
Local clock offset: -0.257 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2019-08-27 15:00:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 455.66 Mbit/s
95th percentile per-packet one-way delay: 140.747 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 311.42 Mbit/s
95th percentile per-packet one-way delay: 141.426 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 185.79 Mbit/s
95th percentile per-packet one-way delay: 141.393 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 65.39 Mbit/s
95th percentile per-packet one-way delay: 133.163 ms
Loss rate: 4.24%
Run 1: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 311.70 Mbps)
- Flow 1 egress (mean 311.42 Mbps)
- Flow 2 ingress (mean 187.29 Mbps)
- Flow 2 egress (mean 187.79 Mbps)
- Flow 3 ingress (mean 65.64 Mbps)
- Flow 3 egress (mean 65.39 Mbps)

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

- Flow 1 (95th percentile 141.43 ms)
- Flow 2 (95th percentile 141.39 ms)
- Flow 3 (95th percentile 133.16 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2019-08-27 09:48:33
End at: 2019-08-27 09:49:03
Local clock offset: 0.475 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-08-27 15:00:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 256.21 Mbit/s
95th percentile per-packet one-way delay: 133.769 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 152.92 Mbit/s
95th percentile per-packet one-way delay: 133.985 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 99.14 Mbit/s
95th percentile per-packet one-way delay: 133.290 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 116.23 Mbit/s
95th percentile per-packet one-way delay: 134.703 ms
Loss rate: 4.68%
Run 3: Statistics of PCC-Vivace

Start at: 2019-08-27 10:31:55
End at: 2019-08-27 10:32:25
Local clock offset: 0.305 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-08-27 15:00:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 480.05 Mbit/s
95th percentile per-packet one-way delay: 158.686 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 255.27 Mbit/s
95th percentile per-packet one-way delay: 137.946 ms
Loss rate: 1.75%
-- Flow 2:
Average throughput: 283.48 Mbit/s
95th percentile per-packet one-way delay: 159.843 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 114.81 Mbit/s
95th percentile per-packet one-way delay: 177.970 ms
Loss rate: 5.12%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2019-08-27 11:15:35
End at: 2019-08-27 11:16:05
Local clock offset: -0.128 ms
Remote clock offset: -0.381 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 512.53 Mbit/s
  95th percentile per-packet one-way delay: 156.741 ms
  Loss rate: 2.45%
  -- Flow 1:
    Average throughput: 290.17 Mbit/s
    95th percentile per-packet one-way delay: 290.042 ms
    Loss rate: 2.74%
  -- Flow 2:
    Average throughput: 278.47 Mbit/s
    95th percentile per-packet one-way delay: 137.653 ms
    Loss rate: 1.53%
  -- Flow 3:
    Average throughput: 117.33 Mbit/s
    95th percentile per-packet one-way delay: 135.161 ms
    Loss rate: 4.65%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

Start at: 2019-08-27 11:58:58
End at: 2019-08-27 11:59:28
Local clock offset: -0.125 ms
Remote clock offset: -0.353 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 488.19 Mbit/s
95th percentile per-packet one-way delay: 143.759 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 326.54 Mbit/s
95th percentile per-packet one-way delay: 151.092 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 187.67 Mbit/s
95th percentile per-packet one-way delay: 133.676 ms
Loss rate: 2.03%
-- Flow 3:
Average throughput: 115.57 Mbit/s
95th percentile per-packet one-way delay: 135.070 ms
Loss rate: 4.71%
Run 5: Report of PCC-Vivace — Data Link

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

- **Flow 1** (ingress mean 326.11 Mbit/s, egress mean 326.54 Mbit/s)
- **Flow 2** (ingress mean 188.98 Mbit/s, egress mean 187.67 Mbit/s)
- **Flow 3** (ingress mean 118.01 Mbit/s, egress mean 115.57 Mbit/s)

![Graph showing packet delay for different flows.]

- **Flow 1** (95th percentile 151.09 ms)
- **Flow 2** (95th percentile 133.68 ms)
- **Flow 3** (95th percentile 135.07 ms)
Run 1: Statistics of WebRTC media

Start at: 2019-08-27 09:28:19
End at: 2019-08-27 09:28:49
Local clock offset: -0.279 ms
Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 133.442 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 133.477 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 133.300 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 133.991 ms
  Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2019-08-27 10:11:41
End at: 2019-08-27 10:12:11
Local clock offset: 0.643 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 133.758 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 132.824 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 133.708 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 133.805 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Local clock offset: -0.41 ms
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 132.912 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.106 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.971 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.854 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2019-08-27 11:38:58
End at: 2019-08-27 11:39:28
Local clock offset: -0.182 ms
Remote clock offset: -0.355 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 133.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.249 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.267 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.080 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

Throughput (Mbit/s)

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

Ping packet one-way delay (ms)

- Flow 1 (95th percentile 133.25 ms)
- Flow 2 (95th percentile 133.27 ms)
- Flow 3 (95th percentile 133.08 ms)
Run 5: Statistics of WebRTC media

Local clock offset: -0.193 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-08-27 15:01:12
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 0.13 Mbit/s
   95th percentile per-packet one-way delay: 133.019 ms
   Loss rate: 0.00%
-- Flow 1:
   Average throughput: 0.05 Mbit/s
   95th percentile per-packet one-way delay: 133.147 ms
   Loss rate: 0.00%
-- Flow 2:
   Average throughput: 0.05 Mbit/s
   95th percentile per-packet one-way delay: 132.772 ms
   Loss rate: 0.00%
-- Flow 3:
   Average throughput: 0.05 Mbit/s
   95th percentile per-packet one-way delay: 133.047 ms
   Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

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

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