Pantheon Report

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 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
brANCH: muses @ de42328552b3776a75a932a94dfafdf722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/filllp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d83983d4dfe0edcf890c077e64d
third_party/libutp @ b3465b942e28f2f2b179eaab4a906ce66b7cf3cf
third_party/muses @ 5ce721187ad823da20965337730c746486ca49f6
third_party/muses_dtree @ 387225f7b5f61d6be92d708a8869ffbb94eb3200
third_party/pantheon-tunnel @ f8663f58d27af992717625ee3a354cc2e802bd
third_party/pcc @ 1af9c958fa0d66d623c091a55fdd872a49f8e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8a08f9ab24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1b8143ebc978f3c4f2
third_party/scream-reproduce @ 099118d1421aa313bf11f1964974e1da3db
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
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>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
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<tr>
<td>TCP BBR</td>
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<td>417.68</td>
<td>347.58</td>
<td>246.99</td>
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<td>Copa</td>
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<td>263.21</td>
<td>217.92</td>
<td>180.11</td>
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<td>359.75</td>
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<td>295.22</td>
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<td>PCC-Expr</td>
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<td>97.62</td>
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<td>WebRTC media</td>
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<td>0.07</td>
<td>0.06</td>
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</table>
Run 1: Statistics of TCP BBR

Local clock offset: -0.072 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-11-24 18:58:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 747.12 Mbit/s
95th percentile per-packet one-way delay: 253.693 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 422.19 Mbit/s
95th percentile per-packet one-way delay: 196.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 371.82 Mbit/s
95th percentile per-packet one-way delay: 293.404 ms
Loss rate: 6.08%
-- Flow 3:
Average throughput: 240.74 Mbit/s
95th percentile per-packet one-way delay: 176.823 ms
Loss rate: 5.71%
Run 1: Report of TCP BBR — Data Link

![Graph of throughput and latency over time for different flows.]
Run 2: Statistics of TCP BBR

Start at: 2019-11-24 16:11:16
End at: 2019-11-24 16:11:46
Local clock offset: -0.083 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-11-24 18:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 763.95 Mbit/s
95th percentile per-packet one-way delay: 255.076 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 416.60 Mbit/s
95th percentile per-packet one-way delay: 245.452 ms
Loss rate: 1.91%
-- Flow 2:
Average throughput: 386.57 Mbit/s
95th percentile per-packet one-way delay: 269.354 ms
Loss rate: 3.42%
-- Flow 3:
Average throughput: 278.62 Mbit/s
95th percentile per-packet one-way delay: 262.450 ms
Loss rate: 5.50%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2019-11-24 16:54:44
Local clock offset: -0.019 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-11-24 18:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 726.90 Mbit/s
95th percentile per-packet one-way delay: 296.471 ms
Loss rate: 4.21%
-- Flow 1:
Average throughput: 438.79 Mbit/s
95th percentile per-packet one-way delay: 249.839 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 329.28 Mbit/s
95th percentile per-packet one-way delay: 315.411 ms
Loss rate: 9.20%
-- Flow 3:
Average throughput: 213.75 Mbit/s
95th percentile per-packet one-way delay: 134.460 ms
Loss rate: 5.03%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2019-11-24 17:37:35
End at: 2019-11-24 17:38:05
Local clock offset: -0.13 ms
Remote clock offset: 0.366 ms

# Below is generated by plot.py at 2019-11-24 18:58:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 736.31 Mbit/s
  95th percentile per-packet one-way delay: 245.803 ms
  Loss rate: 2.37%
-- Flow 1:
  Average throughput: 420.48 Mbit/s
  95th percentile per-packet one-way delay: 247.217 ms
  Loss rate: 1.83%
-- Flow 2:
  Average throughput: 339.22 Mbit/s
  95th percentile per-packet one-way delay: 234.317 ms
  Loss rate: 2.72%
-- Flow 3:
  Average throughput: 278.09 Mbit/s
  95th percentile per-packet one-way delay: 248.141 ms
  Loss rate: 3.97%
Run 4: Report of TCP BBR — Data Link

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

Legend:
- Flow 1 ingress (mean 424.51 Mbit/s)
- Flow 1 egress (mean 420.48 Mbit/s)
- Flow 2 ingress (mean 344.05 Mbit/s)
- Flow 2 egress (mean 339.22 Mbit/s)
- Flow 3 ingress (mean 281.86 Mbit/s)
- Flow 3 egress (mean 278.09 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 247.22 ms)
- Flow 2 (95th percentile 234.32 ms)
- Flow 3 (95th percentile 248.14 ms)
Run 5: Statistics of TCP BBR

End at: 2019-11-24 18:21:18
Local clock offset: -0.063 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 18:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 669.59 Mbit/s
95th percentile per-packet one-way delay: 225.111 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 390.33 Mbit/s
95th percentile per-packet one-way delay: 236.141 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 311.00 Mbit/s
95th percentile per-packet one-way delay: 164.234 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 223.76 Mbit/s
95th percentile per-packet one-way delay: 188.843 ms
Loss rate: 5.59%
Run 5: Report of TCP BBR — Data Link

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

Graph 1: Throughput vs Time (Mbps)

<table>
<thead>
<tr>
<th>Flow Type</th>
<th>Ingress Mean (Mbps)</th>
<th>Egress Mean (Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 1</td>
<td>391.73</td>
<td>390.33</td>
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<tr>
<td>Flow 2</td>
<td>311.89</td>
<td>311.00</td>
</tr>
<tr>
<td>Flow 3</td>
<td>230.57</td>
<td>223.76</td>
</tr>
</tbody>
</table>

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

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

- Flow 1 (95th percentile 236.14 ms)
- Flow 2 (95th percentile 164.23 ms)
- Flow 3 (95th percentile 188.84 ms)
Run 1: Statistics of Copa

Start at: 2019-11-24 14:54:43
Local clock offset: -0.088 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-11-24 19:00:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 471.81 Mbit/s
95th percentile per-packet one-way delay: 208.922 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 275.90 Mbit/s
95th percentile per-packet one-way delay: 215.716 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 210.93 Mbit/s
95th percentile per-packet one-way delay: 171.463 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 171.98 Mbit/s
95th percentile per-packet one-way delay: 224.086 ms
Loss rate: 4.37%
Run 1: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 275.79 Mbit/s)
- Flow 1 egress (mean 275.99 Mbit/s)
- Flow 2 ingress (mean 210.41 Mbit/s)
- Flow 2 egress (mean 210.93 Mbit/s)
- Flow 3 ingress (mean 175.01 Mbit/s)
- Flow 3 egress (mean 171.98 Mbit/s)
Run 2: Statistics of Copa

Local clock offset: -0.034 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-11-24 19:00:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 471.98 Mbit/s
  95th percentile per-packet one-way delay: 177.879 ms
  Loss rate: 1.52%
-- Flow 1:
  Average throughput: 272.77 Mbit/s
  95th percentile per-packet one-way delay: 179.088 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 211.13 Mbit/s
  95th percentile per-packet one-way delay: 154.900 ms
  Loss rate: 1.51%
-- Flow 3:
  Average throughput: 181.49 Mbit/s
  95th percentile per-packet one-way delay: 212.983 ms
  Loss rate: 4.13%
Run 2: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 272.89 Mbps)
- Flow 1 egress (mean 272.77 Mbps)
- Flow 2 ingress (mean 211.50 Mbps)
- Flow 2 egress (mean 211.13 Mbps)
- Flow 3 ingress (mean 184.26 Mbps)
- Flow 3 egress (mean 181.49 Mbps)

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

- Flow 1 (95th percentile 179.09 ms)
- Flow 2 (95th percentile 154.90 ms)
- Flow 3 (95th percentile 212.98 ms)
Run 3: Statistics of Copa

End at: 2019-11-24 16:21:46
Local clock offset: -0.15 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-11-24 19:01:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.08 Mbit/s
95th percentile per-packet one-way delay: 190.642 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 270.94 Mbit/s
95th percentile per-packet one-way delay: 181.854 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 217.73 Mbit/s
95th percentile per-packet one-way delay: 196.254 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 181.04 Mbit/s
95th percentile per-packet one-way delay: 155.474 ms
Loss rate: 3.15%
Run 3: Report of Copa — Data Link

![Throughput Graph](image1)

- **Flow 1 ingress (mean 271.12 Mbit/s)**
- **Flow 1 egress (mean 270.94 Mbit/s)**
- **Flow 2 ingress (mean 218.26 Mbit/s)**
- **Flow 2 egress (mean 217.73 Mbit/s)**
- **Flow 3 ingress (mean 181.81 Mbit/s)**
- **Flow 3 egress (mean 181.04 Mbit/s)**

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

- **Flow 1 (95th percentile 181.85 ms)**
- **Flow 2 (95th percentile 196.25 ms)**
- **Flow 3 (95th percentile 155.47 ms)**
Run 4: Statistics of Copa

Start at: 2019-11-24 17:04:25
End at: 2019-11-24 17:04:55
Local clock offset: -0.124 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-11-24 19:14:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 481.71 Mbit/s
95th percentile per-packet one-way delay: 197.847 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 272.90 Mbit/s
95th percentile per-packet one-way delay: 208.372 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 227.44 Mbit/s
95th percentile per-packet one-way delay: 190.008 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 177.74 Mbit/s
95th percentile per-packet one-way delay: 192.507 ms
Loss rate: 3.53%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 272.71 Mbps)
- Flow 1 egress (mean 272.90 Mbps)
- Flow 2 ingress (mean 228.29 Mbps)
- Flow 2 egress (mean 227.44 Mbps)
- Flow 3 ingress (mean 179.32 Mbps)
- Flow 3 egress (mean 177.74 Mbps)

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

- Flow 1 (95th percentile 208.37 ms)
- Flow 2 (95th percentile 190.01 ms)
- Flow 3 (95th percentile 192.51 ms)
Run 5: Statistics of Copa

Start at: 2019-11-24 17:47:05
End at: 2019-11-24 17:47:35
Local clock offset: 0.228 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-11-24 19:14:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.48 Mbit/s
95th percentile per-packet one-way delay: 228.669 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 223.56 Mbit/s
95th percentile per-packet one-way delay: 237.716 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 222.36 Mbit/s
95th percentile per-packet one-way delay: 195.153 ms
Loss rate: 1.59%
-- Flow 3:
Average throughput: 188.30 Mbit/s
95th percentile per-packet one-way delay: 174.959 ms
Loss rate: 3.80%
Run 5: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 15:10:00
End at: 2019-11-24 15:10:30
Local clock offset: 0.249 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2019-11-24 19:14:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 685.53 Mbit/s
95th percentile per-packet one-way delay: 220.115 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 439.78 Mbit/s
95th percentile per-packet one-way delay: 232.359 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 272.20 Mbit/s
95th percentile per-packet one-way delay: 171.795 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 199.69 Mbit/s
95th percentile per-packet one-way delay: 134.107 ms
Loss rate: 4.15%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

End at: 2019-11-24 15:53:42
Local clock offset: -0.089 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-11-24 19:14:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 669.18 Mbit/s
  95th percentile per-packet one-way delay: 245.734 ms
  Loss rate: 1.74%
-- Flow 1:
  Average throughput: 346.27 Mbit/s
  95th percentile per-packet one-way delay: 253.269 ms
  Loss rate: 1.31%
-- Flow 2:
  Average throughput: 361.96 Mbit/s
  95th percentile per-packet one-way delay: 246.268 ms
  Loss rate: 1.52%
-- Flow 3:
  Average throughput: 253.39 Mbit/s
  95th percentile per-packet one-way delay: 195.898 ms
  Loss rate: 4.12%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 16:36:30
End at: 2019-11-24 16:37:00
Local clock offset: -0.102 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 19:14:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 707.70 Mbit/s
  95th percentile per-packet one-way delay: 213.711 ms
  Loss rate: 1.59%
-- Flow 1:
  Average throughput: 409.62 Mbit/s
  95th percentile per-packet one-way delay: 220.341 ms
  Loss rate: 1.14%
-- Flow 2:
  Average throughput: 350.78 Mbit/s
  95th percentile per-packet one-way delay: 214.069 ms
  Loss rate: 1.82%
-- Flow 3:
  Average throughput: 200.36 Mbit/s
  95th percentile per-packet one-way delay: 133.422 ms
  Loss rate: 3.54%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 17:19:51
End at: 2019-11-24 17:20:21
Local clock offset: -0.113 ms
Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-11-24 19:15:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 764.46 Mbit/s
95th percentile per-packet one-way delay: 231.617 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 413.65 Mbit/s
95th percentile per-packet one-way delay: 237.033 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 413.92 Mbit/s
95th percentile per-packet one-way delay: 224.378 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 233.78 Mbit/s
95th percentile per-packet one-way delay: 137.025 ms
Loss rate: 4.21%
Run 4: Report of TCP Cubic — Data Link

![Graph showing Throughput and Packet Delay over time for different flows.](image_url)
Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 18:02:57
End at: 2019-11-24 18:03:27
Local clock offset: -0.118 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-24 19:15:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 763.52 Mbit/s
95th percentile per-packet one-way delay: 232.742 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 433.16 Mbit/s
95th percentile per-packet one-way delay: 248.939 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 399.90 Mbit/s
95th percentile per-packet one-way delay: 202.400 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 199.82 Mbit/s
95th percentile per-packet one-way delay: 135.628 ms
Loss rate: 4.13%
Run 5: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2019-11-24 15:01:33
End at: 2019-11-24 15:02:03
Local clock offset: -0.099 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-11-24 19:15:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 351.65 Mbit/s
  95th percentile per-packet one-way delay: 134.877 ms
  Loss rate: 1.33%
-- Flow 1:
  Average throughput: 63.62 Mbit/s
  95th percentile per-packet one-way delay: 134.090 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 318.79 Mbit/s
  95th percentile per-packet one-way delay: 133.829 ms
  Loss rate: 0.93%
-- Flow 3:
  Average throughput: 236.83 Mbit/s
  95th percentile per-packet one-way delay: 136.929 ms
  Loss rate: 3.46%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2019-11-24 15:44:36
End at: 2019-11-24 15:45:06
Local clock offset: -0.043 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-11-24 19:17:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 341.96 Mbit/s
  95th percentile per-packet one-way delay: 141.152 ms
  Loss rate: 1.35%
-- Flow 1:
  Average throughput: 58.04 Mbit/s
  95th percentile per-packet one-way delay: 138.475 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 308.22 Mbit/s
  95th percentile per-packet one-way delay: 143.033 ms
  Loss rate: 1.05%
-- Flow 3:
  Average throughput: 245.81 Mbit/s
  95th percentile per-packet one-way delay: 138.110 ms
  Loss rate: 3.06%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Local clock offset: -0.068 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 19:19:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 352.96 Mbit/s
  95th percentile per-packet one-way delay: 186.833 ms
  Loss rate: 1.80%
-- Flow 1:
  Average throughput: 69.65 Mbit/s
  95th percentile per-packet one-way delay: 200.802 ms
  Loss rate: 2.28%
-- Flow 2:
  Average throughput: 313.46 Mbit/s
  95th percentile per-packet one-way delay: 137.404 ms
  Loss rate: 1.11%
-- Flow 3:
  Average throughput: 232.58 Mbit/s
  95th percentile per-packet one-way delay: 135.795 ms
  Loss rate: 3.21%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillP

Start at: 2019-11-24 17:11:18
End at: 2019-11-24 17:11:48
Local clock offset: -0.053 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-11-24 19:21:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.59 Mbit/s
95th percentile per-packet one-way delay: 145.227 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 129.98 Mbit/s
95th percentile per-packet one-way delay: 161.045 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 314.70 Mbit/s
95th percentile per-packet one-way delay: 134.968 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 237.02 Mbit/s
95th percentile per-packet one-way delay: 136.032 ms
Loss rate: 3.25%
Run 4: Report of FillP — Data Link

![Graph of Throughput (Mbps)]

- Flow 1 Ingress (mean 128.27 Mbps)
- Flow 1 Egress (mean 129.98 Mbps)
- Flow 2 Ingress (mean 314.36 Mbps)
- Flow 2 Egress (mean 314.70 Mbps)
- Flow 3 Ingress (mean 237.97 Mbps)
- Flow 3 Egress (mean 237.02 Mbps)

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

- Flow 1 (95th percentile 161.04 ms)
- Flow 2 (95th percentile 134.97 ms)
- Flow 3 (95th percentile 116.03 ms)
Run 5: Statistics of FillP

End at: 2019-11-24 17:54:28
Local clock offset: 0.229 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-11-24 19:21:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.94 Mbit/s
95th percentile per-packet one-way delay: 173.791 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 112.25 Mbit/s
95th percentile per-packet one-way delay: 190.665 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 309.85 Mbit/s
95th percentile per-packet one-way delay: 136.244 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 251.53 Mbit/s
95th percentile per-packet one-way delay: 135.192 ms
Loss rate: 2.48%
Run 5: Report of FillP — Data Link

**Throughput (Mbps):**
- Flow 1 ingress (mean 111.99 Mbps)
- Flow 1 egress (mean 112.25 Mbps)
- Flow 2 ingress (mean 309.31 Mbps)
- Flow 2 egress (mean 309.85 Mbps)
- Flow 3 ingress (mean 250.99 Mbps)
- Flow 3 egress (mean 251.33 Mbps)

**Packet error rate (ms):**
- Flow 1 (95th percentile 190.66 ms)
- Flow 2 (95th percentile 136.24 ms)
- Flow 3 (95th percentile 135.19 ms)
Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 15:08:25
End at: 2019-11-24 15:08:55
Local clock offset: -0.099 ms
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-11-24 19:21:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 313.37 Mbit/s
  95th percentile per-packet one-way delay: 134.856 ms
  Loss rate: 1.54%
-- Flow 1:
  Average throughput: 39.97 Mbit/s
  95th percentile per-packet one-way delay: 135.940 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 305.31 Mbit/s
  95th percentile per-packet one-way delay: 134.937 ms
  Loss rate: 1.18%
-- Flow 3:
  Average throughput: 218.75 Mbit/s
  95th percentile per-packet one-way delay: 133.688 ms
  Loss rate: 3.36%
Run 1: Report of FillP-Sheep — Data Link

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

- **Flow 1 ingress (mean 39.68 Mbit/s)**
- **Flow 1 egress (mean 39.97 Mbit/s)**
- **Flow 2 ingress (mean 305.06 Mbit/s)**
- **Flow 2 egress (mean 305.31 Mbit/s)**
- **Flow 3 ingress (mean 219.94 Mbit/s)**
- **Flow 3 egress (mean 218.75 Mbit/s)**

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

- **Flow 1 (95th percentile 135.94 ms)**
- **Flow 2 (95th percentile 134.94 ms)**
- **Flow 3 (95th percentile 133.69 ms)**
Run 2: Statistics of FillP-Sheep

End at: 2019-11-24 15:52:03
Local clock offset: -0.076 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-11-24 19:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.75 Mbit/s
95th percentile per-packet one-way delay: 157.200 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 97.95 Mbit/s
95th percentile per-packet one-way delay: 174.519 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 303.95 Mbit/s
95th percentile per-packet one-way delay: 135.480 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 217.34 Mbit/s
95th percentile per-packet one-way delay: 136.774 ms
Loss rate: 3.02%
Run 2: Report of FillP-Sheep — Data Link

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

- Flow 1 Ingress (mean 97.36 Mbps/s)
- Flow 1 Egress (mean 97.95 Mbps/s)
- Flow 2 Ingress (mean 303.70 Mbps/s)
- Flow 2 Egress (mean 303.95 Mbps/s)
- Flow 3 Ingress (mean 217.94 Mbps/s)
- Flow 3 Egress (mean 217.34 Mbps/s)

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

- Flow 1 (95th percentile 174.52 ms)
- Flow 2 (95th percentile 135.48 ms)
- Flow 3 (95th percentile 136.77 ms)
Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 16:34:50
End at: 2019-11-24 16:35:20
Local clock offset: -0.058 ms
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2019-11-24 19:24:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.58 Mbit/s
95th percentile per-packet one-way delay: 169.764 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 120.58 Mbit/s
95th percentile per-packet one-way delay: 191.563 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 313.63 Mbit/s
95th percentile per-packet one-way delay: 136.198 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 219.31 Mbit/s
95th percentile per-packet one-way delay: 135.504 ms
Loss rate: 3.25%
Run 3: Report of FillP-Sheep — Data Link

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

Start at: 2019-11-24 17:18:15
End at: 2019-11-24 17:18:45
Local clock offset: 0.228 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-11-24 19:24:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 341.25 Mbit/s
  95th percentile per-packet one-way delay: 174.352 ms
  Loss rate: 2.11%
-- Flow 1:
  Average throughput: 66.30 Mbit/s
  95th percentile per-packet one-way delay: 197.358 ms
  Loss rate: 3.51%
-- Flow 2:
  Average throughput: 300.78 Mbit/s
  95th percentile per-packet one-way delay: 137.034 ms
  Loss rate: 1.35%
-- Flow 3:
  Average throughput: 233.87 Mbit/s
  95th percentile per-packet one-way delay: 136.304 ms
  Loss rate: 2.87%
Run 4: Report of FillP-Sheep — Data Link

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

- Throughput graphs for Flow 1 (ingress 67.83 Mbit/s) and Flow 1 (egress 66.30 Mbit/s).
- Throughput graphs for Flow 2 (ingress 300.93 Mbit/s) and Flow 2 (egress 300.78 Mbit/s).
- Throughput graphs for Flow 3 (ingress 234.19 Mbit/s) and Flow 3 (egress 233.87 Mbit/s).

- Packet processing time graphs for Flow 1 (95th percentile 197.36 ms), Flow 2 (95th percentile 137.03 ms), and Flow 3 (95th percentile 116.30 ms).
Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 18:01:03
End at: 2019-11-24 18:01:33
Local clock offset: 0.211 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-24 19:33:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 687.40 Mbit/s
95th percentile per-packet one-way delay: 163.718 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 413.70 Mbit/s
95th percentile per-packet one-way delay: 171.649 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 300.67 Mbit/s
95th percentile per-packet one-way delay: 136.231 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 230.48 Mbit/s
95th percentile per-packet one-way delay: 138.007 ms
Loss rate: 3.28%
Run 5: Report of FillP-Sheep — Data Link

![Graph]

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 413.31 Mbit/s) — Flow 1 egress (mean 413.70 Mbit/s)
Flow 2 ingress (mean 300.64 Mbit/s) — Flow 2 egress (mean 300.67 Mbit/s)
Flow 3 ingress (mean 232.31 Mbit/s) — Flow 3 egress (mean 230.48 Mbit/s)

Packet error rate

Time (s)

Flow 1 (95th percentile 171.65 ms) — Flow 2 (95th percentile 136.23 ms) — Flow 3 (95th percentile 138.01 ms)
Run 1: Statistics of Indigo

Start at: 2019-11-24 14:52:51
End at: 2019-11-24 14:53:21
Local clock offset: 0.19 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-11-24 19:33:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.28 Mbit/s
95th percentile per-packet one-way delay: 136.800 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 165.56 Mbit/s
95th percentile per-packet one-way delay: 136.610 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 152.46 Mbit/s
95th percentile per-packet one-way delay: 137.448 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 106.82 Mbit/s
95th percentile per-packet one-way delay: 136.608 ms
Loss rate: 3.61%
Run 1: Report of Indigo — Data Link

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

Legend:
- Flow 1 ingress (mean 165.45 Mbit/s)
- Flow 1 egress (mean 165.56 Mbit/s)
- Flow 2 ingress (mean 152.47 Mbit/s)
- Flow 2 egress (mean 152.46 Mbit/s)
- Flow 3 ingress (mean 107.75 Mbit/s)
- Flow 3 egress (mean 106.62 Mbit/s)
Run 2: Statistics of Indigo

Start at: 2019-11-24 15:35:51
End at: 2019-11-24 15:36:21
Local clock offset: -0.082 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 19:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.40 Mbit/s
95th percentile per-packet one-way delay: 135.649 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 144.03 Mbit/s
95th percentile per-packet one-way delay: 134.121 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 156.14 Mbit/s
95th percentile per-packet one-way delay: 135.602 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 136.97 Mbit/s
95th percentile per-packet one-way delay: 141.196 ms
Loss rate: 3.03%
Run 2: Report of Indigo — Data Link

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

Flow 1 ingress (mean 144.07 Mbit/s)  Flow 1 egress (mean 144.03 Mbit/s)
Flow 2 ingress (mean 156.12 Mbit/s)  Flow 2 egress (mean 156.14 Mbit/s)
Flow 3 ingress (mean 137.39 Mbit/s)  Flow 3 egress (mean 136.97 Mbit/s)
Run 3: Statistics of Indigo

End at: 2019-11-24 16:19:52
Local clock offset: -0.071 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-11-24 19:33:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.11 Mbit/s
95th percentile per-packet one-way delay: 136.380 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 165.50 Mbit/s
95th percentile per-packet one-way delay: 136.008 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 151.96 Mbit/s
95th percentile per-packet one-way delay: 136.558 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 137.96 Mbit/s
95th percentile per-packet one-way delay: 137.578 ms
Loss rate: 3.05%
Run 3: Report of Indigo — Data Link
Run 4: Statistics of Indigo

Start at: 2019-11-24 17:02:36
End at: 2019-11-24 17:03:06
Local clock offset: -0.113 ms
Remote clock offset: -0.393 ms

# Below is generated by plot.py at 2019-11-24 19:33:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 252.92 Mbit/s
  95th percentile per-packet one-way delay: 136.658 ms
  Loss rate: 1.52%
-- Flow 1:
  Average throughput: 134.90 Mbit/s
  95th percentile per-packet one-way delay: 136.997 ms
  Loss rate: 0.97%
-- Flow 2:
  Average throughput: 123.48 Mbit/s
  95th percentile per-packet one-way delay: 135.525 ms
  Loss rate: 1.55%
-- Flow 3:
  Average throughput: 113.42 Mbit/s
  95th percentile per-packet one-way delay: 139.832 ms
  Loss rate: 3.46%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2019-11-24 17:45:14
End at: 2019-11-24 17:45:44
Local clock offset: -0.121 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-11-24 19:33:35
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 278.28 Mbit/s
  95th percentile per-packet one-way delay: 147.970 ms
  Loss rate: 1.39%
-- Flow 1:
  Average throughput: 138.36 Mbit/s
  95th percentile per-packet one-way delay: 144.839 ms
  Loss rate: 0.93%
-- Flow 2:
  Average throughput: 162.72 Mbit/s
  95th percentile per-packet one-way delay: 146.823 ms
  Loss rate: 1.28%
-- Flow 3:
  Average throughput: 103.58 Mbit/s
  95th percentile per-packet one-way delay: 159.791 ms
  Loss rate: 3.63%
Run 5: Report of Indigo — Data Link
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 15:33:52
End at: 2019-11-24 15:34:22
Local clock offset: -0.054 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 19:36:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 715.99 Mbit/s
95th percentile per-packet one-way delay: 161.079 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 433.69 Mbit/s
95th percentile per-packet one-way delay: 167.856 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 344.11 Mbit/s
95th percentile per-packet one-way delay: 139.459 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 251.70 Mbit/s
95th percentile per-packet one-way delay: 136.575 ms
Loss rate: 5.19%
Run 1: Report of Indigo-MusesC3 — Data Link
Run 2: Statistics of Indigo-MusesC3

End at: 2019-11-24 16:17:53
Local clock offset: -0.118 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-11-24 19:37:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 715.88 Mbit/s
95th percentile per-packet one-way delay: 184.353 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 428.19 Mbit/s
95th percentile per-packet one-way delay: 188.537 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 352.99 Mbit/s
95th percentile per-packet one-way delay: 181.612 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 254.78 Mbit/s
95th percentile per-packet one-way delay: 136.922 ms
Loss rate: 5.17%
Run 2: Report of Indigo-MusesC3 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 426.97 Mbps)
Flow 1 egress (mean 428.19 Mbps)
Flow 2 ingress (mean 351.42 Mbps)
Flow 2 egress (mean 352.99 Mbps)
Flow 3 ingress (mean 258.87 Mbps)
Flow 3 egress (mean 254.78 Mbps)

Packet delay (ms)

Time (s)

Flow 1 (99th percentile 188.54 ms)
Flow 2 (99th percentile 181.61 ms)
Flow 3 (99th percentile 136.92 ms)
Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 17:00:36
End at: 2019-11-24 17:01:06
Local clock offset: -0.115 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 19:43:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 731.34 Mbit/s
  95th percentile per-packet one-way delay: 206.449 ms
  Loss rate: 1.28%
-- Flow 1:
  Average throughput: 432.58 Mbit/s
  95th percentile per-packet one-way delay: 213.122 ms
  Loss rate: 0.62%
-- Flow 2:
  Average throughput: 362.45 Mbit/s
  95th percentile per-packet one-way delay: 201.728 ms
  Loss rate: 1.40%
-- Flow 3:
  Average throughput: 262.38 Mbit/s
  95th percentile per-packet one-way delay: 141.190 ms
  Loss rate: 4.99%
Run 3: Report of Indigo-MusesC3 — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 Ingress (mean 431.10 Mbit/s)
- Flow 1 Egress (mean 432.58 Mbit/s)
- Flow 2 Ingress (mean 362.15 Mbit/s)
- Flow 2 Egress (mean 362.45 Mbit/s)
- Flow 3 Ingress (mean 266.06 Mbit/s)
- Flow 3 Egress (mean 262.38 Mbit/s)

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

- Flow 1 (95th percentile 213.12 ms)
- Flow 2 (95th percentile 201.73 ms)
- Flow 3 (95th percentile 141.19 ms)
Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 17:43:11
End at: 2019-11-24 17:43:41
Local clock offset: -0.071 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-24 19:44:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 730.69 Mbit/s
95th percentile per-packet one-way delay: 174.662 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 441.31 Mbit/s
95th percentile per-packet one-way delay: 176.332 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 358.06 Mbit/s
95th percentile per-packet one-way delay: 173.461 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 248.70 Mbit/s
95th percentile per-packet one-way delay: 136.167 ms
Loss rate: 4.73%
Run 4: Report of Indigo-MusesC3 — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress** (mean 439.59 Mbps)
- **Flow 1 egress** (mean 441.31 Mbps)
- **Flow 2 ingress** (mean 357.95 Mbps)
- **Flow 2 egress** (mean 358.06 Mbps)
- **Flow 3 ingress** (mean 251.80 Mbps)
- **Flow 3 egress** (mean 248.70 Mbps)

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

- **Flow 1** (95th percentile 176.33 ms)
- **Flow 2** (95th percentile 173.46 ms)
- **Flow 3** (95th percentile 136.17 ms)
Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 18:26:46
End at: 2019-11-24 18:27:16
Local clock offset: -0.04 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-11-24 19:45:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 753.87 Mbit/s
95th percentile per-packet one-way delay: 168.910 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 462.30 Mbit/s
95th percentile per-packet one-way delay: 173.476 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 363.92 Mbit/s
95th percentile per-packet one-way delay: 161.546 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 242.04 Mbit/s
95th percentile per-packet one-way delay: 139.901 ms
Loss rate: 4.35%
Run 5: Report of Indigo-MusesC3 — Data Link

**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 460.77 Mbit/s)**
- **Flow 1 egress (mean 462.30 Mbit/s)**
- **Flow 2 ingress (mean 363.27 Mbit/s)**
- **Flow 2 egress (mean 363.92 Mbit/s)**
- **Flow 3 ingress (mean 243.91 Mbit/s)**
- **Flow 3 egress (mean 242.04 Mbit/s)**

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

- **Flow 1 (95th percentile 173.48 ms)**
- **Flow 2 (95th percentile 161.55 ms)**
- **Flow 3 (95th percentile 139.90 ms)**
Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 15:30:05
End at: 2019-11-24 15:30:35
Local clock offset: 0.271 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-11-24 19:45:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 607.83 Mbit/s
  95th percentile per-packet one-way delay: 167.300 ms
  Loss rate: 1.10%
-- Flow 1:
  Average throughput: 384.48 Mbit/s
  95th percentile per-packet one-way delay: 184.522 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 317.63 Mbit/s
  95th percentile per-packet one-way delay: 143.279 ms
  Loss rate: 1.87%
-- Flow 3:
  Average throughput: 86.02 Mbit/s
  95th percentile per-packet one-way delay: 133.335 ms
  Loss rate: 4.89%
Run 1: Report of Indigo-MusesC5 — Data Link
Run 2: Statistics of Indigo-MusesC5

End at: 2019-11-24 16:14:00
Local clock offset: -0.098 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 19:45:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 612.03 Mbit/s
95th percentile per-packet one-way delay: 200.776 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 369.90 Mbit/s
95th percentile per-packet one-way delay: 197.888 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 349.90 Mbit/s
95th percentile per-packet one-way delay: 201.642 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 133.735 ms
Loss rate: 5.20%
Run 2: Report of Indigo-MusesC5 — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress: mean 369.16 Mbps
- Flow 1 egress: mean 369.90 Mbps
- Flow 2 ingress: mean 349.71 Mbps
- Flow 2 egress: mean 349.90 Mbps
- Flow 3 ingress: mean 87.37 Mbps
- Flow 3 egress: mean 85.87 Mbps

**Packet one-way delay (ms):**
- Flow 1 (95th percentile 197.89 ms)
- Flow 2 (95th percentile 201.64 ms)
- Flow 3 (95th percentile 133.74 ms)
Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 16:56:50
Local clock offset: 0.254 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-11-24 19:45:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 565.40 Mbit/s
95th percentile per-packet one-way delay: 224.702 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 336.54 Mbit/s
95th percentile per-packet one-way delay: 232.061 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 327.42 Mbit/s
95th percentile per-packet one-way delay: 142.871 ms
Loss rate: 1.99%
-- Flow 3:
Average throughput: 82.60 Mbit/s
95th percentile per-packet one-way delay: 133.042 ms
Loss rate: 5.55%
Run 3: Report of Indigo-MusesC5 — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 338.13 Mbps)
  - Flow 1 egress (mean 336.54 Mbps)
  - Flow 2 ingress (mean 329.11 Mbps)
  - Flow 2 egress (mean 327.42 Mbps)
  - Flow 3 ingress (mean 84.19 Mbps)
  - Flow 3 egress (mean 82.60 Mbps)

- **Packet Delay (ms)**
  - Flow 1 (95th percentile 232.06 ms)
  - Flow 2 (95th percentile 142.87 ms)
  - Flow 3 (95th percentile 133.04 ms)
Run 4: Statistics of Indigo-MusesC5

End at: 2019-11-24 17:40:14
Local clock offset: -0.109 ms
Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2019-11-24 19:48:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.17 Mbit/s
95th percentile per-packet one-way delay: 191.748 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 348.19 Mbit/s
95th percentile per-packet one-way delay: 207.098 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 325.82 Mbit/s
95th percentile per-packet one-way delay: 149.625 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 87.39 Mbit/s
95th percentile per-packet one-way delay: 133.412 ms
Loss rate: 5.59%
Run 4: Report of Indigo-MusesC5 — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 346.08 Mbps)
  - Flow 1 egress (mean 348.19 Mbps)
  - Flow 2 ingress (mean 327.37 Mbps)
  - Flow 2 egress (mean 325.82 Mbps)
  - Flow 3 ingress (mean 89.21 Mbps)
  - Flow 3 egress (mean 87.39 Mbps)

- **Delay (ms):**
  - Flow 1 (95th percentile 207.10 ms)
  - Flow 2 (95th percentile 149.62 ms)
  - Flow 3 (95th percentile 133.41 ms)
Run 5: Statistics of Indigo-MusesC5

Local clock offset: -0.059 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-11-24 19:49:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 622.14 Mbit/s
  95th percentile per-packet one-way delay: 181.272 ms
  Loss rate: 1.59%
-- Flow 1:
  Average throughput: 390.61 Mbit/s
  95th percentile per-packet one-way delay: 199.832 ms
  Loss rate: 0.70%
-- Flow 2:
  Average throughput: 324.75 Mbit/s
  95th percentile per-packet one-way delay: 144.182 ms
  Loss rate: 1.78%
-- Flow 3:
  Average throughput: 111.82 Mbit/s
  95th percentile per-packet one-way delay: 135.430 ms
  Loss rate: 11.39%
Run 5: Report of Indigo-MusesC5 — Data Link

![Graph of data link throughput and packet delay over time]

- Flow 1 ingress (mean 389.83 Mbit/s)
- Flow 1 egress (mean 390.61 Mbit/s)
- Flow 2 ingress (mean 325.70 Mbit/s)
- Flow 2 egress (mean 324.75 Mbit/s)
- Flow 3 ingress (mean 121.52 Mbit/s)
- Flow 3 egress (mean 111.82 Mbit/s)

![Graph of packet delay over time]

- Flow 1 (95th percentile 199.83 ms)
- Flow 2 (95th percentile 144.18 ms)
- Flow 3 (95th percentile 135.43 ms)
Run 1: Statistics of Indigo-MusesD

End at: 2019-11-24 15:14:34
Local clock offset: -0.134 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-11-24 19:54:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 608.00 Mbit/s
  95th percentile per-packet one-way delay: 140.230 ms
  Loss rate: 1.27%
-- Flow 1:
  Average throughput: 363.97 Mbit/s
  95th percentile per-packet one-way delay: 143.411 ms
  Loss rate: 1.06%
-- Flow 2:
  Average throughput: 350.92 Mbit/s
  95th percentile per-packet one-way delay: 134.717 ms
  Loss rate: 1.20%
-- Flow 3:
  Average throughput: 81.48 Mbit/s
  95th percentile per-packet one-way delay: 133.746 ms
  Loss rate: 5.59%
Run 1: Report of Indigo-MusesD — Data Link

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

Flow 1 ingress (mean 364.41 Mbit/s)
Flow 1 egress (mean 363.97 Mbit/s)
Flow 2 ingress (mean 349.96 Mbit/s)
Flow 2 egress (mean 350.92 Mbit/s)
Flow 3 ingress (mean 83.13 Mbit/s)
Flow 3 egress (mean 81.48 Mbit/s)

Flow 1 (95th percentile 143.41 ms)
Flow 2 (95th percentile 134.72 ms)
Flow 3 (95th percentile 133.75 ms)
Run 2: Statistics of Indigo-MusesD

Local clock offset: 0.019 ms  
Remote clock offset: -0.022 ms  

# Below is generated by plot.py at 2019-11-24 19:54:30  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 601.04 Mbit/s  
  95th percentile per-packet one-way delay: 177.642 ms  
  Loss rate: 1.10%  
  -- Flow 1:  
  Average throughput: 417.73 Mbit/s  
  95th percentile per-packet one-way delay: 180.575 ms  
  Loss rate: 1.08%  
  -- Flow 2:  
  Average throughput: 255.05 Mbit/s  
  95th percentile per-packet one-way delay: 162.177 ms  
  Loss rate: 0.66%  
  -- Flow 3:  
  Average throughput: 81.08 Mbit/s  
  95th percentile per-packet one-way delay: 134.910 ms  
  Loss rate: 4.80%
Run 2: Report of Indigo-MusesD — Data Link

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

Start at: 2019-11-24 16:40:36
End at: 2019-11-24 16:41:06
Local clock offset: -0.082 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-11-24 19:55:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 632.99 Mbit/s
95th percentile per-packet one-way delay: 167.652 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 421.18 Mbit/s
95th percentile per-packet one-way delay: 175.335 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 300.10 Mbit/s
95th percentile per-packet one-way delay: 143.502 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 133.316 ms
Loss rate: 5.49%
Run 3: Report of Indigo-MusesD — Data Link

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

Start at: 2019-11-24 17:24:00
End at: 2019-11-24 17:24:30
Local clock offset: -0.112 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 19:55:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 598.81 Mbit/s
  95th percentile per-packet one-way delay: 150.430 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 352.24 Mbit/s
  95th percentile per-packet one-way delay: 159.124 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 361.64 Mbit/s
  95th percentile per-packet one-way delay: 142.643 ms
  Loss rate: 1.29%
-- Flow 3:
  Average throughput: 80.24 Mbit/s
  95th percentile per-packet one-way delay: 133.585 ms
  Loss rate: 4.88%
Run 4: Report of Indigo-MusesD — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 350.36 Mbit/s)  
Flow 1 egress (mean 352.24 Mbit/s)  
Flow 2 ingress (mean 360.89 Mbit/s)  
Flow 2 egress (mean 361.64 Mbit/s)  
Flow 3 ingress (mean 81.32 Mbit/s)  
Flow 3 egress (mean 80.24 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 159.12 ms)  
Flow 2 (95th percentile 142.64 ms)  
Flow 3 (95th percentile 133.59 ms)
Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 18:07:07
End at: 2019-11-24 18:07:37
Local clock offset: -0.11 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-11-24 19:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 655.02 Mbit/s
95th percentile per-packet one-way delay: 150.334 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 402.63 Mbit/s
95th percentile per-packet one-way delay: 149.606 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 371.19 Mbit/s
95th percentile per-packet one-way delay: 153.715 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 135.314 ms
Loss rate: 5.80%
Run 5: Report of Indigo-MusesD — Data Link
Run 1: Statistics of Indigo-MusesT

End at: 2019-11-24 15:06:53
Local clock offset: -0.124 ms
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-11-24 19:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 771.45 Mbit/s
95th percentile per-packet one-way delay: 211.359 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 502.11 Mbit/s
95th percentile per-packet one-way delay: 215.714 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 390.60 Mbit/s
95th percentile per-packet one-way delay: 182.366 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 132.740 ms
Loss rate: 5.00%
Run 1: Report of Indigo-MusesT — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 502.32 Mbps)
  - Flow 1 egress (mean 502.11 Mbps)
  - Flow 2 ingress (mean 388.17 Mbps)
  - Flow 2 egress (mean 390.69 Mbps)
  - Flow 3 ingress (mean 25.44 Mbps)
  - Flow 3 egress (mean 24.17 Mbps)

- **Delay (ms):**
  - Flow 1 (95th percentile 215.71 ms)
  - Flow 2 (95th percentile 182.37 ms)
  - Flow 3 (95th percentile 132.74 ms)
Run 2: Statistics of Indigo-MuseST

End at: 2019-11-24 15:50:02
Local clock offset: -0.118 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-24 20:00:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 703.61 Mbit/s
  95th percentile per-packet one-way delay: 226.875 ms
  Loss rate: 1.57%
-- Flow 1:
  Average throughput: 448.15 Mbit/s
  95th percentile per-packet one-way delay: 230.433 ms
  Loss rate: 1.22%
-- Flow 2:
  Average throughput: 367.29 Mbit/s
  95th percentile per-packet one-way delay: 217.238 ms
  Loss rate: 1.89%
-- Flow 3:
  Average throughput: 89.89 Mbit/s
  95th percentile per-packet one-way delay: 134.111 ms
  Loss rate: 5.01%
Run 2: Report of Indigo-MusesT — Data Link

![Graph showing network performance metrics over time. The graphs display throughput and per-packet one-way delay for different flows.](image)
Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 16:32:50
Local clock offset: -0.101 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-11-24 20:03:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 733.63 Mbit/s
95th percentile per-packet one-way delay: 222.849 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 476.10 Mbit/s
95th percentile per-packet one-way delay: 224.560 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 369.09 Mbit/s
95th percentile per-packet one-way delay: 202.741 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 133.091 ms
Loss rate: 4.71%
Run 3: Report of Indigo-MusesT — Data Link
Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 17:16:12
End at: 2019-11-24 17:16:42
Local clock offset: -0.139 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2019-11-24 20:08:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 759.19 Mbit/s
95th percentile per-packet one-way delay: 216.254 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 467.79 Mbit/s
95th percentile per-packet one-way delay: 222.492 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 370.42 Mbit/s
95th percentile per-packet one-way delay: 164.687 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 228.70 Mbit/s
95th percentile per-packet one-way delay: 142.476 ms
Loss rate: 4.69%
Run 4: Report of Indigo-MusesT — Data Link

![Graph of Throughput (Mbit/s)]

- Flow 1 ingress (mean 466.76 Mbit/s)
- Flow 1 egress (mean 467.79 Mbit/s)
- Flow 2 ingress (mean 369.73 Mbit/s)
- Flow 2 egress (mean 370.42 Mbit/s)
- Flow 3 ingress (mean 231.26 Mbit/s)
- Flow 3 egress (mean 228.70 Mbit/s)

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

- Flow 1 (95th percentile 222.49 ms)
- Flow 2 (95th percentile 164.69 ms)
- Flow 3 (95th percentile 142.48 ms)
Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 17:59:00
End at: 2019-11-24 17:59:30
Local clock offset: -0.186 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 776.98 Mbit/s
95th percentile per-packet one-way delay: 188.713 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 479.17 Mbit/s
95th percentile per-packet one-way delay: 197.819 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 382.19 Mbit/s
95th percentile per-packet one-way delay: 146.497 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 219.08 Mbit/s
95th percentile per-packet one-way delay: 159.840 ms
Loss rate: 6.28%
Run 5: Report of Indigo-MusesT — Data Link

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

- Flow 1 ingress (mean 478.04 Mbit/s)
- Flow 1 egress (mean 479.17 Mbit/s)
- Flow 2 ingress (mean 381.25 Mbit/s)
- Flow 2 egress (mean 382.19 Mbit/s)
- Flow 3 ingress (mean 226.23 Mbit/s)
- Flow 3 egress (mean 219.08 Mbit/s)

![Graph showing packet delay distribution for different flows.](image-url)

- Flow 1 (95th percentile 197.92 ms)
- Flow 2 (95th percentile 146.50 ms)
- Flow 3 (95th percentile 159.84 ms)
Run 1: Statistics of LEDBAT

Start at: 2019-11-24 15:05:03
End at: 2019-11-24 15:05:33
Local clock offset: ~0.096 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 8.05 Mbit/s
  95th percentile per-packet one-way delay: 133.401 ms
  Loss rate: 2.29%
-- Flow 1:
  Average throughput: 5.22 Mbit/s
  95th percentile per-packet one-way delay: 133.440 ms
  Loss rate: 1.78%
-- Flow 2:
  Average throughput: 3.48 Mbit/s
  95th percentile per-packet one-way delay: 132.453 ms
  Loss rate: 2.67%
-- Flow 3:
  Average throughput: 1.66 Mbit/s
  95th percentile per-packet one-way delay: 133.294 ms
  Loss rate: 5.42%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Local clock offset: -0.064 ms
Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 134.348 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.588 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 134.044 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 133.598 ms
Loss rate: 5.43%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2019-11-24 16:31:30
End at: 2019-11-24 16:32:00
Local clock offset: -0.122 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 133.288 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 132.890 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 133.586 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 133.393 ms
Loss rate: 5.42%
Run 3: Report of LEDBAT — Data Link

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

- **Flow 1 ingress** (mean 5.29 Mbit/s)
- **Flow 1 egress** (mean 5.24 Mbit/s)
- **Flow 2 ingress** (mean 3.46 Mbit/s)
- **Flow 2 egress** (mean 3.42 Mbit/s)
- **Flow 3 ingress** (mean 1.71 Mbit/s)
- **Flow 3 egress** (mean 1.66 Mbit/s)

*Graph notes:*
- Throughput measured in Mbps.
- Time in seconds.
- Per-packet one-way delay measured in ms.

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Run 4: Statistics of LEDBAT

Start at: 2019-11-24 17:14:52
End at: 2019-11-24 17:15:22
Local clock offset: -0.046 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.00 Mbit/s
95th percentile per-packet one-way delay: 134.022 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.106 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 133.553 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 133.762 ms
Loss rate: 5.42%
Run 4: Report of LEDBAT — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 5.27 Mbps)
  - Flow 1 egress (mean 5.22 Mbps)
  - Flow 2 ingress (mean 3.46 Mbps)
  - Flow 2 egress (mean 3.42 Mbps)
  - Flow 3 ingress (mean 1.71 Mbps)
  - Flow 3 egress (mean 1.66 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 134.11 ms)
  - Flow 2 (95th percentile 133.55 ms)
  - Flow 3 (95th percentile 133.76 ms)
Run 5: Statistics of LEDBAT

Start at: 2019-11-24 17:57:39
End at: 2019-11-24 17:58:09
Local clock offset: 0.173 ms
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 8.04 Mbit/s
  95th percentile per-packet one-way delay: 134.278 ms
  Loss rate: 2.29%
-- Flow 1:
 Average throughput: 5.22 Mbit/s
  95th percentile per-packet one-way delay: 134.308 ms
  Loss rate: 1.78%
-- Flow 2:
 Average throughput: 3.48 Mbit/s
  95th percentile per-packet one-way delay: 134.371 ms
  Loss rate: 2.67%
-- Flow 3:
 Average throughput: 1.66 Mbit/s
  95th percentile per-packet one-way delay: 134.098 ms
  Loss rate: 5.42%
Run 5: Report of LEDBAT — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 5.26 Mbps)
Flow 1 egress (mean 5.22 Mbps)
Flow 2 ingress (mean 3.33 Mbps)
Flow 2 egress (mean 3.48 Mbps)
Flow 3 ingress (mean 1.71 Mbps)
Flow 3 egress (mean 1.66 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 134.31 ms)
Flow 2 (95th percentile 134.37 ms)
Flow 3 (95th percentile 134.10 ms)
Run 1: Statistics of Muses\_DecisionTree

Local clock offset: -0.112 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.57 Mbit/s
95th percentile per-packet one-way delay: 151.087 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 412.67 Mbit/s
95th percentile per-packet one-way delay: 152.804 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 313.87 Mbit/s
95th percentile per-packet one-way delay: 143.946 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 149.34 Mbit/s
95th percentile per-packet one-way delay: 133.587 ms
Loss rate: 5.49%
Run 1: Report of Muses DecisionTree — Data Link
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 16:05:51
End at: 2019-11-24 16:06:21
Local clock offset: -0.052 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 653.08 Mbit/s
  95th percentile per-packet one-way delay: 153.010 ms
  Loss rate: 1.22%
-- Flow 1:
  Average throughput: 393.05 Mbit/s
  95th percentile per-packet one-way delay: 157.499 ms
  Loss rate: 0.73%
-- Flow 2:
  Average throughput: 316.83 Mbit/s
  95th percentile per-packet one-way delay: 139.484 ms
  Loss rate: 1.19%
-- Flow 3:
  Average throughput: 163.44 Mbit/s
  95th percentile per-packet one-way delay: 135.232 ms
  Loss rate: 4.84%
Run 2: Report of Muses_DecisionTree — Data Link
Run 3: Statistics of Muses\_DecisionTree

Local clock offset: -0.024 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 20:09:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 677.94 Mbit/s
95th percentile per-packet one-way delay: 169.232 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 414.96 Mbit/s
95th percentile per-packet one-way delay: 170.435 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 320.16 Mbit/s
95th percentile per-packet one-way delay: 171.013 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 135.857 ms
Loss rate: 4.54%
Run 3: Report of Muses_DecisionTree — Data Link

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**Throughput (Mbps)**

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

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

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

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Run 4: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 17:32:33
End at: 2019-11-24 17:33:03
Local clock offset: 0.246 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-24 20:09:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.97 Mbit/s
95th percentile per-packet one-way delay: 156.330 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 133.968 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 392.10 Mbit/s
95th percentile per-packet one-way delay: 157.606 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 248.41 Mbit/s
95th percentile per-packet one-way delay: 136.054 ms
Loss rate: 4.50%
Run 4: Report of Muses_DecisionTree — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 0.10 Mbit/s)
- Flow 1 egress (mean 0.10 Mbit/s)
- Flow 2 ingress (mean 392.68 Mbit/s)
- Flow 2 egress (mean 392.10 Mbit/s)
- Flow 3 ingress (mean 252.78 Mbit/s)
- Flow 3 egress (mean 248.41 Mbit/s)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 133.97 ms)
- Flow 2 (95th percentile 157.61 ms)
- Flow 3 (95th percentile 136.05 ms)
Run 5: Statistics of Muses\_DecisionTree

End at: 2019-11-24 18:15:54
Local clock offset: 0.258 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-11-24 20:13:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 660.83 Mbit/s
  95th percentile per-packet one-way delay: 156.619 ms
  Loss rate: 1.27%
-- Flow 1:
  Average throughput: 387.75 Mbit/s
  95th percentile per-packet one-way delay: 163.686 ms
  Loss rate: 1.10%
-- Flow 2:
  Average throughput: 322.90 Mbit/s
  95th percentile per-packet one-way delay: 142.158 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 194.78 Mbit/s
  95th percentile per-packet one-way delay: 154.244 ms
  Loss rate: 4.68%
Run 5: Report of Muses DecisionTree — Data Link
Run 1: Statistics of Muses\_DecisionTreeH0

Local clock offset: -0.067 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-11-24 20:15:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.46 Mbit/s
95th percentile per-packet one-way delay: 201.828 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 362.25 Mbit/s
95th percentile per-packet one-way delay: 195.023 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 223.231 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 175.21 Mbit/s
95th percentile per-packet one-way delay: 135.158 ms
Loss rate: 6.10%
Run 1: Report of Muses_DecisionTreeH0 — Data Link

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

- Flow 1 ingress (mean 364.25 Mbit/s)
- Flow 1 egress (mean 362.25 Mbit/s)
- Flow 2 ingress (mean 230.50 Mbit/s)
- Flow 2 egress (mean 226.70 Mbit/s)
- Flow 3 ingress (mean 182.20 Mbit/s)
- Flow 3 egress (mean 175.21 Mbit/s)
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 16:15:24
End at: 2019-11-24 16:15:54
Local clock offset: -0.16 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-11-24 20:18:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 640.00 Mbit/s
95th percentile per-packet one-way delay: 193.855 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 357.74 Mbit/s
95th percentile per-packet one-way delay: 214.891 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 343.39 Mbit/s
95th percentile per-packet one-way delay: 172.885 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 179.99 Mbit/s
95th percentile per-packet one-way delay: 136.214 ms
Loss rate: 5.57%
Run 2: Report of Muses_DecisionTreeH0 — Data Link
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 16:58:42  
End at: 2019-11-24 16:59:12  
Local clock offset: -0.093 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 20:19:12  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 561.42 Mbit/s
95th percentile per-packet one-way delay: 203.358 ms
Loss rate: 2.60%

-- Flow 1:
Average throughput: 296.86 Mbit/s
95th percentile per-packet one-way delay: 236.423 ms
Loss rate: 2.63%

-- Flow 2:
Average throughput: 326.98 Mbit/s
95th percentile per-packet one-way delay: 155.291 ms
Loss rate: 1.82%

-- Flow 3:
Average throughput: 160.51 Mbit/s
95th percentile per-packet one-way delay: 135.333 ms
Loss rate: 5.66%
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 17:41:36  
End at: 2019-11-24 17:42:06  
Local clock offset: -0.111 ms  
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 20:19:12  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 238.69 Mbit/s
95th percentile per-packet one-way delay: 229.668 ms
Loss rate: 4.45%

-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 132.965 ms
Loss rate: 0.98%

-- Flow 2:
Average throughput: 232.66 Mbit/s
95th percentile per-packet one-way delay: 235.899 ms
Loss rate: 4.33%

-- Flow 3:
Average throughput: 272.11 Mbit/s
95th percentile per-packet one-way delay: 137.936 ms
Loss rate: 4.68%
Run 4: Report of Muses_DecisionTreeH0 — Data Link
Run 5: Statistics of Muses\_DecisionTreeH0

End at: 2019-11-24 18:25:17
Local clock offset: -0.063 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-11-24 20:21:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 658.10 Mbit/s
95th percentile per-packet one-way delay: 173.414 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 386.92 Mbit/s
95th percentile per-packet one-way delay: 173.509 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 337.64 Mbit/s
95th percentile per-packet one-way delay: 178.942 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 160.06 Mbit/s
95th percentile per-packet one-way delay: 137.624 ms
Loss rate: 6.45%
Run 5: Report of Muses_DecisionTreeH0 — Data Link
Run 1: Statistics of Muses\_DecisionTreeR0

End at: 2019-11-24 15:25:02
Local clock offset: -0.15 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-11-24 20:21:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 664.61 Mbit/s
  95th percentile per-packet one-way delay: 161.528 ms
  Loss rate: 1.33%
-- Flow 1:
  Average throughput: 395.22 Mbit/s
  95th percentile per-packet one-way delay: 163.885 ms
  Loss rate: 0.76%
-- Flow 2:
  Average throughput: 323.95 Mbit/s
  95th percentile per-packet one-way delay: 148.373 ms
  Loss rate: 1.48%
-- Flow 3:
  Average throughput: 182.36 Mbit/s
  95th percentile per-packet one-way delay: 135.327 ms
  Loss rate: 4.61%
Run 1: Report of Muses DecisionTreeR0 — Data Link
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 16:07:49
End at: 2019-11-24 16:08:19
Local clock offset: -0.104 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 20:23:19
# Datalink statistics
-- Total of 3 flows:
- Average throughput: 696.86 Mbit/s
- 95th percentile per-packet one-way delay: 144.145 ms
- Loss rate: 1.22%

-- Flow 1:
- Average throughput: 421.82 Mbit/s
- 95th percentile per-packet one-way delay: 145.611 ms
- Loss rate: 0.71%

-- Flow 2:
- Average throughput: 328.61 Mbit/s
- 95th percentile per-packet one-way delay: 145.020 ms
- Loss rate: 1.20%

-- Flow 3:
- Average throughput: 188.71 Mbit/s
- 95th percentile per-packet one-way delay: 136.814 ms
- Loss rate: 4.75%
Run 2: Report of Muses_DecisionTreeR0 — Data Link

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

- Flow 1 ingress (mean 420.97 Mbit/s)
- Flow 1 egress (mean 421.82 Mbit/s)
- Flow 2 ingress (mean 328.06 Mbit/s)
- Flow 2 egress (mean 328.01 Mbit/s)
- Flow 3 ingress (mean 192.51 Mbit/s)
- Flow 3 egress (mean 188.71 Mbit/s)
Run 3: Statistics of Muses\_DecisionTreeR0

End at: 2019-11-24 16:51:50
Local clock offset: -0.076 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-24 20:26:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 673.17 Mbit/s
95th percentile per-packet one-way delay: 157.474 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 396.58 Mbit/s
95th percentile per-packet one-way delay: 159.717 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 333.10 Mbit/s
95th percentile per-packet one-way delay: 152.815 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 183.02 Mbit/s
95th percentile per-packet one-way delay: 138.176 ms
Loss rate: 5.49%
Run 3: Report of Muses_DecisionTreeR0 — Data Link
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 17:34:12
End at: 2019-11-24 17:34:42
Local clock offset: -0.11 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-11-24 20:26:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 654.72 Mbit/s
95th percentile per-packet one-way delay: 160.157 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 398.01 Mbit/s
95th percentile per-packet one-way delay: 165.016 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 305.94 Mbit/s
95th percentile per-packet one-way delay: 138.443 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 175.79 Mbit/s
95th percentile per-packet one-way delay: 135.870 ms
Loss rate: 5.09%
Run 4: Report of Muses_DecisionTreeR0 — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 397.42 Mbps)
- Flow 1 egress (mean 398.01 Mbps)
- Flow 2 ingress (mean 305.36 Mbps)
- Flow 2 egress (mean 305.94 Mbps)
- Flow 3 ingress (mean 190.04 Mbps)
- Flow 3 egress (mean 175.79 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 165.02 ms)
- Flow 2 (95th percentile 138.44 ms)
- Flow 3 (95th percentile 135.87 ms)
Run 5: Statistics of Muses\_DecisionTreeR0

End at: 2019-11-24 18:17:53
Local clock offset: -0.073 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 20:28:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 675.30 Mbit/s
  95th percentile per-packet one-way delay: 163.131 ms
  Loss rate: 1.25%
-- Flow 1:
  Average throughput: 430.80 Mbit/s
  95th percentile per-packet one-way delay: 168.448 ms
  Loss rate: 0.86%
-- Flow 2:
  Average throughput: 314.70 Mbit/s
  95th percentile per-packet one-way delay: 135.841 ms
  Loss rate: 1.18%
-- Flow 3:
  Average throughput: 122.40 Mbit/s
  95th percentile per-packet one-way delay: 134.372 ms
  Loss rate: 5.72%
Run 5: Report of Muses_DecisionTreeR0 — Data Link

Graph 1: Throughput (Mbps) over Time (s)
- Flow 1 ingress (mean 430.66 Mbps)
- Flow 1 egress (mean 430.80 Mbps)
- Flow 2 ingress (mean 314.10 Mbps)
- Flow 2 egress (mean 314.70 Mbps)
- Flow 3 ingress (mean 126.16 Mbps)
- Flow 3 egress (mean 122.40 Mbps)

Graph 2: Per-packet one-way delay (ms) over Time (s)
- Flow 1 (95th percentile 168.45 ms)
- Flow 2 (95th percentile 135.84 ms)
- Flow 3 (95th percentile 134.37 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 15:12:01
End at: 2019-11-24 15:12:31
Local clock offset: -0.034 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2019-11-24 20:39:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 558.61 Mbit/s
95th percentile per-packet one-way delay: 175.819 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 293.62 Mbit/s
95th percentile per-packet one-way delay: 149.879 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 286.63 Mbit/s
95th percentile per-packet one-way delay: 193.069 ms
Loss rate: 2.94%
-- Flow 3:
Average throughput: 232.75 Mbit/s
95th percentile per-packet one-way delay: 198.381 ms
Loss rate: 3.41%
Run 1: Report of PCC-Allegro — Data Link

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1. **Throughput**
   - Flow 1 ingress (mean 295.24 Mb/s)
   - Flow 1 egress (mean 293.62 Mb/s)
   - Flow 2 ingress (mean 291.34 Mb/s)
   - Flow 2 egress (mean 286.63 Mb/s)
   - Flow 3 ingress (mean 234.43 Mb/s)
   - Flow 3 egress (mean 232.75 Mb/s)

2. **End-to-End Delay**
   - Flow 1 (95th percentile 149.88 ms)
   - Flow 2 (95th percentile 193.07 ms)
   - Flow 3 (95th percentile 190.38 ms)
Run 2: Statistics of PCC-Allegro

End at: 2019-11-24 15:55:45
Local clock offset: -0.124 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 20:39:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 534.00 Mbit/s
  95th percentile per-packet one-way delay: 226.050 ms
  Loss rate: 1.77%
-- Flow 1:
  Average throughput: 291.10 Mbit/s
  95th percentile per-packet one-way delay: 220.200 ms
  Loss rate: 1.35%
-- Flow 2:
  Average throughput: 256.76 Mbit/s
  95th percentile per-packet one-way delay: 221.282 ms
  Loss rate: 1.62%
-- Flow 3:
  Average throughput: 225.45 Mbit/s
  95th percentile per-packet one-way delay: 237.107 ms
  Loss rate: 3.73%
Run 2: Report of PCC-Allegro — Data Link
Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 16:38:32
End at: 2019-11-24 16:39:02
Local clock offset: -0.085 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-11-24 20:42:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 540.07 Mbit/s
95th percentile per-packet one-way delay: 205.102 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 291.70 Mbit/s
95th percentile per-packet one-way delay: 200.796 ms
Loss rate: 2.11%
-- Flow 2:
Average throughput: 267.47 Mbit/s
95th percentile per-packet one-way delay: 198.443 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 220.66 Mbit/s
95th percentile per-packet one-way delay: 237.742 ms
Loss rate: 5.27%
Run 3: Report of PCC-Allegro — Data Link
Run 4: Statistics of PCC-Allegro

Local clock offset: -0.137 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-11-24 20:42:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.44 Mbit/s
95th percentile per-packet one-way delay: 238.678 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 283.68 Mbit/s
95th percentile per-packet one-way delay: 159.334 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 279.81 Mbit/s
95th percentile per-packet one-way delay: 296.072 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 227.84 Mbit/s
95th percentile per-packet one-way delay: 180.036 ms
Loss rate: 3.29%
Run 4: Report of PCC-Allegro — Data Link

![Throughput and Packet Delay Graphs]

- **Throughput Graph**
  - **Flow 1 ingress** (mean 284.39 Mbps)
  - **Flow 1 egress** (mean 283.68 Mbps)
  - **Flow 2 ingress** (mean 235.69 Mbps)
  - **Flow 2 egress** (mean 279.81 Mbps)
  - **Flow 3 ingress** (mean 229.20 Mbps)
  - **Flow 3 egress** (mean 227.04 Mbps)

- **Packet Delay Graph**
  - **Flow 1** (95th percentile 159.33 ms)
  - **Flow 2** (95th percentile 296.07 ms)
  - **Flow 3** (95th percentile 180.04 ms)
Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 18:05:03
End at: 2019-11-24 18:05:33
Local clock offset: -0.153 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 20:44:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 559.92 Mbit/s
95th percentile per-packet one-way delay: 230.295 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 315.99 Mbit/s
95th percentile per-packet one-way delay: 252.740 ms
Loss rate: 3.15%
-- Flow 2:
Average throughput: 257.95 Mbit/s
95th percentile per-packet one-way delay: 206.909 ms
Loss rate: 2.27%
-- Flow 3:
Average throughput: 226.89 Mbit/s
95th percentile per-packet one-way delay: 219.177 ms
Loss rate: 3.37%
Run 5: Report of PCC-Allegro — Data Link

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

- **Flow 1 Ingress (mean 323.34 Mbit/s)**
- **Flow 1 Egress (mean 315.99 Mbit/s)**
- **Flow 2 Ingress (mean 260.40 Mbit/s)**
- **Flow 2 Egress (mean 257.95 Mbit/s)**
- **Flow 3 Ingress (mean 226.43 Mbit/s)**
- **Flow 3 Egress (mean 226.89 Mbit/s)**

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

- **Flow 1 (95th percentile 252.74 ms)**
- **Flow 2 (95th percentile 206.91 ms)**
- **Flow 3 (95th percentile 219.18 ms)**

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Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 14:58:14
End at: 2019-11-24 14:58:44
Local clock offset: -0.153 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-11-24 20:44:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 420.92 Mbit/s
  95th percentile per-packet one-way delay: 183.484 ms
  Loss rate: 1.57%
-- Flow 1:
  Average throughput: 262.62 Mbit/s
  95th percentile per-packet one-way delay: 188.426 ms
  Loss rate: 1.01%
-- Flow 2:
  Average throughput: 168.33 Mbit/s
  95th percentile per-packet one-way delay: 133.958 ms
  Loss rate: 2.15%
-- Flow 3:
  Average throughput: 144.87 Mbit/s
  95th percentile per-packet one-way delay: 174.895 ms
  Loss rate: 3.28%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

End at: 2019-11-24 15:41:42
Local clock offset: -0.11 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-11-24 20:44:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.97 Mbit/s
95th percentile per-packet one-way delay: 265.871 ms
Loss rate: 4.93%
-- Flow 1:
Average throughput: 277.86 Mbit/s
95th percentile per-packet one-way delay: 268.181 ms
Loss rate: 6.28%
-- Flow 2:
Average throughput: 170.60 Mbit/s
95th percentile per-packet one-way delay: 135.837 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 142.52 Mbit/s
95th percentile per-packet one-way delay: 262.940 ms
Loss rate: 5.30%
Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 16:24:45
End at: 2019-11-24 16:25:15
Local clock offset: -0.126 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-11-24 20:44:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.71 Mbit/s
95th percentile per-packet one-way delay: 211.943 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 184.25 Mbit/s
95th percentile per-packet one-way delay: 226.305 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 172.75 Mbit/s
95th percentile per-packet one-way delay: 138.558 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 80.53 Mbit/s
95th percentile per-packet one-way delay: 295.967 ms
Loss rate: 3.28%
Run 3: Report of PCC-Expr — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 184.75 Mbps)
  - Flow 1 egress (mean 184.25 Mbps)
  - Flow 2 ingress (mean 173.69 Mbps)
  - Flow 2 egress (mean 172.75 Mbps)
  - Flow 3 ingress (mean 81.01 Mbps)
  - Flow 3 egress (mean 80.53 Mbps)

- **Per-packet mean delay (ms)**
  - Flow 1 (95th percentile 226.31 ms)
  - Flow 2 (95th percentile 138.56 ms)
  - Flow 3 (95th percentile 295.97 ms)
Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 17:07:55
End at: 2019-11-24 17:08:25
Local clock offset: -0.083 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-11-24 20:54:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 433.28 Mbit/s
95th percentile per-packet one-way delay: 232.370 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 274.42 Mbit/s
95th percentile per-packet one-way delay: 237.708 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 168.30 Mbit/s
95th percentile per-packet one-way delay: 200.609 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 146.38 Mbit/s
95th percentile per-packet one-way delay: 211.290 ms
Loss rate: 3.63%
Run 4: Report of PCC-Expr — Data Link

![Graph of throughput and delay](image1)

![Graph of flow delay](image2)
Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 17:50:32
End at: 2019-11-24 17:51:02
Local clock offset: -0.164 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 524.04 Mbit/s
95th percentile per-packet one-way delay: 217.721 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 286.23 Mbit/s
95th percentile per-packet one-way delay: 214.655 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 287.57 Mbit/s
95th percentile per-packet one-way delay: 224.796 ms
Loss rate: 2.93%
-- Flow 3:
Average throughput: 146.42 Mbit/s
95th percentile per-packet one-way delay: 135.780 ms
Loss rate: 3.63%
Run 5: Report of PCC-Expr — Data Link

![Graph showing network performance metrics]

- **Throughput (Mbit/s):**
  - Flow 1 ingress (mean 286.84 Mbit/s)
  - Flow 1 egress (mean 286.23 Mbit/s)
  - Flow 2 ingress (mean 292.29 Mbit/s)
  - Flow 2 egress (mean 287.57 Mbit/s)
  - Flow 3 ingress (mean 147.83 Mbit/s)
  - Flow 3 egress (mean 146.42 Mbit/s)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 214.66 ms)
  - Flow 2 (95th percentile 224.80 ms)
  - Flow 3 (95th percentile 135.78 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 15:26:31
End at: 2019-11-24 15:27:01
Local clock offset: -0.062 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.12 Mbit/s
95th percentile per-packet one-way delay: 132.950 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 48.67 Mbit/s
95th percentile per-packet one-way delay: 132.948 ms
Loss rate: 1.73%
-- Flow 2:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 132.867 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 62.57 Mbit/s
95th percentile per-packet one-way delay: 132.978 ms
Loss rate: 1.96%
Run 1: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 49.06 Mbit/s)
- Flow 1 egress (mean 48.67 Mbit/s)
- Flow 2 ingress (mean 61.04 Mbit/s)
- Flow 2 egress (mean 61.45 Mbit/s)
- Flow 3 ingress (mean 62.10 Mbit/s)
- Flow 3 egress (mean 62.57 Mbit/s)
Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 16:09:50
End at: 2019-11-24 16:10:20
Local clock offset: -0.109 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.19 Mbit/s
  95th percentile per-packet one-way delay: 132.899 ms
  Loss rate: 1.54%
-- Flow 1:
  Average throughput: 54.43 Mbit/s
  95th percentile per-packet one-way delay: 132.913 ms
  Loss rate: 1.30%
-- Flow 2:
  Average throughput: 41.57 Mbit/s
  95th percentile per-packet one-way delay: 132.090 ms
  Loss rate: 2.32%
-- Flow 3:
  Average throughput: 34.55 Mbit/s
  95th percentile per-packet one-way delay: 132.867 ms
  Loss rate: 0.83%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 16:53:19
End at: 2019-11-24 16:53:49
Local clock offset: 0.285 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.80 Mbit/s
95th percentile per-packet one-way delay: 133.280 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 133.188 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 50.78 Mbit/s
95th percentile per-packet one-way delay: 133.298 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 36.43 Mbit/s
95th percentile per-packet one-way delay: 133.306 ms
Loss rate: 5.43%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 17:36:11
End at: 2019-11-24 17:36:41
Local clock offset: -0.09 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.82 Mbit/s
  95th percentile per-packet one-way delay: 132.785 ms
  Loss rate: 2.16%
-- Flow 1:
  Average throughput: 41.97 Mbit/s
  95th percentile per-packet one-way delay: 132.803 ms
  Loss rate: 1.27%
-- Flow 2:
  Average throughput: 50.68 Mbit/s
  95th percentile per-packet one-way delay: 132.102 ms
  Loss rate: 2.02%
-- Flow 3:
  Average throughput: 37.73 Mbit/s
  95th percentile per-packet one-way delay: 132.763 ms
  Loss rate: 5.46%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Local clock offset: -0.01 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 132.829 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 45.57 Mbit/s
95th percentile per-packet one-way delay: 132.841 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 41.21 Mbit/s
95th percentile per-packet one-way delay: 132.784 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 62.97 Mbit/s
95th percentile per-packet one-way delay: 132.823 ms
Loss rate: 1.88%
Run 5: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2019-11-24 15:00:15
End at: 2019-11-24 15:00:45
Local clock offset: -0.101 ms
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 132.686 ms
  Loss rate: 1.32%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.700 ms
  Loss rate: 0.88%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.641 ms
  Loss rate: 1.39%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 132.510 ms
  Loss rate: 2.45%
Run 1: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.15 Mb/s)
- Flow 1 egress (mean 0.15 Mb/s)
- Flow 2 ingress (mean 0.15 Mb/s)
- Flow 2 egress (mean 0.15 Mb/s)
- Flow 3 ingress (mean 0.16 Mb/s)
- Flow 3 egress (mean 0.16 Mb/s)
Run 2: Statistics of SCReAM

Local clock offset: -0.036 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.30 Mbit/s
  95th percentile per-packet one-way delay: 132.984 ms
  Loss rate: 1.32%
-- Flow 1:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.996 ms
  Loss rate: 0.88%
-- Flow 2:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.905 ms
  Loss rate: 1.39%
-- Flow 3:
  Average throughput: 0.16 Mbit/s
  95th percentile per-packet one-way delay: 132.951 ms
  Loss rate: 2.45%
Run 2: Report of SCReAM — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 0.15 Mbps)
- Flow 1 egress (mean 0.15 Mbps)
- Flow 2 ingress (mean 0.15 Mbps)
- Flow 2 egress (mean 0.15 Mbps)
- Flow 3 ingress (mean 0.16 Mbps)
- Flow 3 egress (mean 0.16 Mbps)

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

- Flow 1 (95th percentile 133.60 ms)
- Flow 2 (95th percentile 132.91 ms)
- Flow 3 (95th percentile 132.95 ms)
Run 3: Statistics of SCReAM

Start at: 2019-11-24 16:26:38
End at: 2019-11-24 16:27:08
Local clock offset: -0.105 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 133.053 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 133.088 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.956 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 132.780 ms
Loss rate: 2.45%
Run 3: Report of SCReAM — Data Link

![Graph of network throughput over time]

```
Time (s)
0   5   10  15   20  25   30

Throughput (Mbit/s)
0.00 0.05 0.10 0.15 0.20 0.25 0.30

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

![Graph of network delay over time]

```
Time (s)
0   5   10  15   20  25   30

Per-packet one-way delay (ms)
133 134 135 136 137

Flow 1 (95th percentile 133.09 ms)  Flow 2 (95th percentile 132.96 ms)  Flow 3 (95th percentile 132.78 ms)
```
Run 4: Statistics of SCReAM

Start at: 2019-11-24 17:09:59
End at: 2019-11-24 17:10:29
Local clock offset: -0.113 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 132.941 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.934 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.955 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 132.115 ms
Loss rate: 2.60%
Run 4: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.15 Mbps) vs. egress (mean 0.15 Mbps)
- Flow 2 ingress (mean 0.15 Mbps) vs. egress (mean 0.15 Mbps)
- Flow 3 ingress (mean 0.22 Mbps) vs. egress (mean 0.22 Mbps)

Per-packet one-way delay (ms) vs. time (s):
- Flow 1 (95th percentile 132.93 ms)
- Flow 2 (95th percentile 132.96 ms)
- Flow 3 (95th percentile 132.12 ms)
Run 5: Statistics of SCReAM

Start at: 2019-11-24 17:52:40
End at: 2019-11-24 17:53:10
Local clock offset: -0.145 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 132.837 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.849 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.799 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.129 ms
Loss rate: 2.44%
Run 5: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

End at: 2019-11-24 15:19:54
Local clock offset: -0.088 ms
Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.27 Mbit/s
  95th percentile per-packet one-way delay: 133.033 ms
  Loss rate: 1.31%
-- Flow 1:
  Average throughput: 0.67 Mbit/s
  95th percentile per-packet one-way delay: 132.223 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 0.67 Mbit/s
  95th percentile per-packet one-way delay: 133.068 ms
  Loss rate: 1.08%
-- Flow 3:
  Average throughput: 0.50 Mbit/s
  95th percentile per-packet one-way delay: 133.025 ms
  Loss rate: 3.82%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2019-11-24 16:02:38
End at: 2019-11-24 16:03:08
Local clock offset: -0.047 ms
Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.33 Mbit/s
  95th percentile per-packet one-way delay: 133.067 ms
  Loss rate: 1.26%
-- Flow 1:
  Average throughput: 0.70 Mbit/s
  95th percentile per-packet one-way delay: 133.053 ms
  Loss rate: 0.75%
-- Flow 2:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 133.056 ms
  Loss rate: 1.24%
-- Flow 3:
  Average throughput: 0.66 Mbit/s
  95th percentile per-packet one-way delay: 133.106 ms
  Loss rate: 2.93%
Run 2: Report of Sprout — Data Link

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

Legend:
- Flow 1 ingress (mean 0.70 Mbit/s)
- Flow 1 egress (mean 0.70 Mbit/s)
- Flow 2 ingress (mean 0.63 Mbit/s)
- Flow 2 egress (mean 0.63 Mbit/s)
- Flow 3 ingress (mean 0.66 Mbit/s)
- Flow 3 egress (mean 0.66 Mbit/s)

Legend for round-trip time:
- Flow 1 (95th percentile 133.05 ms)
- Flow 2 (95th percentile 133.06 ms)
- Flow 3 (95th percentile 133.11 ms)
Run 3: Statistics of Sprout

Local clock offset: -0.11 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 133.029 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 133.046 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.022 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 132.171 ms
Loss rate: 2.06%
Run 4: Statistics of Sprout

Start at: 2019-11-24 17:29:21
End at: 2019-11-24 17:29:51
Local clock offset: -0.12 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 1.24 Mbit/s
   95th percentile per-packet one-way delay: 132.999 ms
   Loss rate: 1.57%
-- Flow 1:
   Average throughput: 0.57 Mbit/s
   95th percentile per-packet one-way delay: 133.005 ms
   Loss rate: 0.70%
-- Flow 2:
   Average throughput: 0.67 Mbit/s
   95th percentile per-packet one-way delay: 132.270 ms
   Loss rate: 2.04%
-- Flow 3:
   Average throughput: 0.69 Mbit/s
   95th percentile per-packet one-way delay: 133.064 ms
   Loss rate: 2.80%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2019-11-24 18:12:11
End at: 2019-11-24 18:12:41
Local clock offset: -0.078 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 132.941 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 132.359 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 132.988 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 132.346 ms
Loss rate: 2.90%
Run 1: Statistics of TaoVA-100x

End at: 2019-11-24 15:17:58
Local clock offset: -0.103 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 336.93 Mbit/s
  95th percentile per-packet one-way delay: 133.312 ms
  Loss rate: 1.18%
-- Flow 1:
  Average throughput: 203.49 Mbit/s
  95th percentile per-packet one-way delay: 133.300 ms
  Loss rate: 0.95%
-- Flow 2:
  Average throughput: 194.97 Mbit/s
  95th percentile per-packet one-way delay: 133.352 ms
  Loss rate: 1.49%
-- Flow 3:
  Average throughput: 12.78 Mbit/s
  95th percentile per-packet one-way delay: 132.054 ms
  Loss rate: 2.78%
Run 1: Report of TaoVA-100x — Data Link

[Graph showing throughput and packet delivery delay over time for flows 1, 2, and 3.]
Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 16:00:41
End at: 2019-11-24 16:01:11
Local clock offset: -0.112 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.82 Mbit/s
95th percentile per-packet one-way delay: 137.520 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 170.99 Mbit/s
95th percentile per-packet one-way delay: 136.775 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 178.29 Mbit/s
95th percentile per-packet one-way delay: 136.072 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 115.40 Mbit/s
95th percentile per-packet one-way delay: 145.097 ms
Loss rate: 4.52%
Run 2: Report of TaoVA-100x — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows with annotations for mean throughput and delay values.]
Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 16:44:08  
End at: 2019-11-24 16:44:38  
Local clock offset: -0.085 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 344.42 Mbit/s  
95th percentile per-packet one-way delay: 135.716 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 195.15 Mbit/s  
95th percentile per-packet one-way delay: 136.522 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 177.14 Mbit/s  
95th percentile per-packet one-way delay: 134.243 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 99.18 Mbit/s  
95th percentile per-packet one-way delay: 134.854 ms  
Loss rate: 5.52%
Run 3: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 194.87 Mbit/s)
- Flow 1 egress (mean 195.15 Mbit/s)
- Flow 2 ingress (mean 177.58 Mbit/s)
- Flow 2 egress (mean 177.14 Mbit/s)
- Flow 3 ingress (mean 101.63 Mbit/s)
- Flow 3 egress (mean 99.18 Mbit/s)

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

- Flow 1 (95th percentile 136.52 ms)
- Flow 2 (95th percentile 134.24 ms)
- Flow 3 (95th percentile 134.05 ms)
Run 4: Statistics of TaoVA-100x

End at: 2019-11-24 17:27:49
Local clock offset: 0.212 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 375.35 Mbit/s
95th percentile per-packet one-way delay: 135.285 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 197.13 Mbit/s
95th percentile per-packet one-way delay: 135.020 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 187.97 Mbit/s
95th percentile per-packet one-way delay: 135.557 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 164.28 Mbit/s
95th percentile per-packet one-way delay: 135.827 ms
Loss rate: 3.64%
Run 4: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 197.24 Mbit/s)
- Flow 1 egress (mean 197.13 Mbit/s)
- Flow 2 ingress (mean 188.74 Mbit/s)
- Flow 2 egress (mean 187.97 Mbit/s)
- Flow 3 ingress (mean 165.94 Mbit/s)
- Flow 3 egress (mean 164.28 Mbit/s)
Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 18:10:29
End at: 2019-11-24 18:10:59
Local clock offset: -0.108 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 198.01 Mbit/s
  95th percentile per-packet one-way delay: 134.398 ms
  Loss rate: 1.93%
-- Flow 1:
  Average throughput: 13.15 Mbit/s
  95th percentile per-packet one-way delay: 132.852 ms
  Loss rate: 0.91%
-- Flow 2:
  Average throughput: 194.58 Mbit/s
  95th percentile per-packet one-way delay: 134.295 ms
  Loss rate: 1.43%
-- Flow 3:
  Average throughput: 171.05 Mbit/s
  95th percentile per-packet one-way delay: 134.898 ms
  Loss rate: 3.28%
Run 5: Report of TaoVA-100x — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image2)
Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 15:03:10
End at: 2019-11-24 15:03:40
Local clock offset: -0.074 ms
Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 535.19 Mbit/s
  95th percentile per-packet one-way delay: 157.372 ms
  Loss rate: 1.67%
-- Flow 1:
  Average throughput: 245.60 Mbit/s
  95th percentile per-packet one-way delay: 182.495 ms
  Loss rate: 0.91%
-- Flow 2:
  Average throughput: 312.63 Mbit/s
  95th percentile per-packet one-way delay: 158.226 ms
  Loss rate: 1.64%
-- Flow 3:
  Average throughput: 252.07 Mbit/s
  95th percentile per-packet one-way delay: 136.093 ms
  Loss rate: 3.96%
Run 1: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 245.67 Mbit/s)**
- **Flow 1 egress (mean 245.60 Mbit/s)**
- **Flow 2 ingress (mean 313.62 Mbit/s)**
- **Flow 2 egress (mean 312.63 Mbit/s)**
- **Flow 3 ingress (mean 255.46 Mbit/s)**
- **Flow 3 egress (mean 252.07 Mbit/s)**

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

- **Flow 1 (95th percentile 182.50 ms)**
- **Flow 2 (95th percentile 158.23 ms)**
- **Flow 3 (95th percentile 136.09 ms)**
Run 2: Statistics of TCP Vegas

Local clock offset: -0.06 ms
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2019-11-24 21:03:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 599.50 Mbit/s
  95th percentile per-packet one-way delay: 262.620 ms
  Loss rate: 1.54%
-- Flow 1:
  Average throughput: 323.95 Mbit/s
  95th percentile per-packet one-way delay: 173.034 ms
  Loss rate: 1.29%
-- Flow 2:
  Average throughput: 298.89 Mbit/s
  95th percentile per-packet one-way delay: 269.167 ms
  Loss rate: 1.32%
-- Flow 3:
  Average throughput: 236.87 Mbit/s
  95th percentile per-packet one-way delay: 172.308 ms
  Loss rate: 3.17%
Run 2: Report of TCP Vegas — Data Link

![Graph of Throughput and Delay](image)

**Throughput (Mbps):**
- Flow 1 ingress: mean 325.25 Mbps
- Flow 1 egress: mean 323.95 Mbps
- Flow 2 ingress: mean 298.86 Mbps
- Flow 2 egress: mean 298.89 Mbps
- Flow 3 ingress: mean 236.11 Mbps
- Flow 3 egress: mean 236.87 Mbps

**Per-packet one-way delay (ms):**
- Flow 1 95th percentile: 173.03 ms
- Flow 2 95th percentile: 269.17 ms
- Flow 3 95th percentile: 172.31 ms
Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 16:29:34
End at: 2019-11-24 16:30:04
Local clock offset: -0.092 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-11-24 21:05:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 588.55 Mbit/s
95th percentile per-packet one-way delay: 164.020 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 349.42 Mbit/s
95th percentile per-packet one-way delay: 162.493 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 236.19 Mbit/s
95th percentile per-packet one-way delay: 144.285 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 252.72 Mbit/s
95th percentile per-packet one-way delay: 232.068 ms
Loss rate: 3.62%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 17:12:59
Local clock offset: -0.108 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 21:05:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 522.26 Mbit/s
  95th percentile per-packet one-way delay: 152.494 ms
  Loss rate: 1.38%
-- Flow 1:
  Average throughput: 305.58 Mbit/s
  95th percentile per-packet one-way delay: 157.498 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 228.45 Mbit/s
  95th percentile per-packet one-way delay: 138.652 ms
  Loss rate: 1.42%
-- Flow 3:
  Average throughput: 199.58 Mbit/s
  95th percentile per-packet one-way delay: 135.015 ms
  Loss rate: 3.52%
Run 4: Report of TCP Vegas — Data Link

![Data Link Throughput and Delay Graphs]
Run 5: Statistics of TCP Vegas

End at: 2019-11-24 17:56:08
Local clock offset: -0.152 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 678.25 Mbit/s
  95th percentile per-packet one-way delay: 211.143 ms
  Loss rate: 1.70%
-- Flow 1:
  Average throughput: 328.69 Mbit/s
  95th percentile per-packet one-way delay: 141.368 ms
  Loss rate: 0.97%
-- Flow 2:
  Average throughput: 412.56 Mbit/s
  95th percentile per-packet one-way delay: 221.884 ms
  Loss rate: 1.99%
-- Flow 3:
  Average throughput: 232.28 Mbit/s
  95th percentile per-packet one-way delay: 179.627 ms
  Loss rate: 3.77%
Run 5: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 328.97 Mbit/s)
- Flow 1 egress (mean 328.69 Mbit/s)
- Flow 2 ingress (mean 415.32 Mbit/s)
- Flow 2 egress (mean 412.65 Mbit/s)
- Flow 3 ingress (mean 234.93 Mbit/s)
- Flow 3 egress (mean 232.28 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 141.37 ms)
- Flow 2 (95th percentile 221.88 ms)
- Flow 3 (95th percentile 179.63 ms)
Run 1: Statistics of Verus

Local clock offset: -0.13 ms
Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.56 Mbit/s
95th percentile per-packet one-way delay: 229.462 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 44.91 Mbit/s
95th percentile per-packet one-way delay: 257.328 ms
Loss rate: 2.83%
-- Flow 2:
Average throughput: 65.48 Mbit/s
95th percentile per-packet one-way delay: 186.836 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 138.947 ms
Loss rate: 1.78%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

End at: 2019-11-24 15:59:43
Local clock offset: -0.056 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.66 Mbit/s
95th percentile per-packet one-way delay: 248.498 ms
Loss rate: 4.90%
-- Flow 1:
Average throughput: 33.06 Mbit/s
95th percentile per-packet one-way delay: 190.057 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 252.437 ms
Loss rate: 8.10%
-- Flow 3:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 149.457 ms
Loss rate: 5.92%
Run 2: Report of Verus — Data Link

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

![Graph 2: Per-packet one way delay vs Time](image2)
Run 3: Statistics of Verus

End at: 2019-11-24 16:43:01
Local clock offset: -0.068 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 171.17 Mbit/s
  95th percentile per-packet one-way delay: 190.692 ms
  Loss rate: 1.42%
-- Flow 1:
  Average throughput: 46.72 Mbit/s
  95th percentile per-packet one-way delay: 157.457 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 184.70 Mbit/s
  95th percentile per-packet one-way delay: 192.739 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 11.74 Mbit/s
  95th percentile per-packet one-way delay: 137.348 ms
  Loss rate: 19.17%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

End at: 2019-11-24 17:26:23
Local clock offset: -0.147 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 140.568 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 33.33 Mbit/s
95th percentile per-packet one-way delay: 137.304 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 179.283 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.58 Mbit/s
95th percentile per-packet one-way delay: 137.300 ms
Loss rate: 0.82%
Run 4: Report of Verus — Data Link

![Throughput Graph](Image)
![Per-packet one-way delay Graph](Image)

Legend:
- Flow 1 ingress (mean 33.08 Mbit/s)
- Flow 1 egress (mean 33.33 Mbit/s)
- Flow 2 ingress (mean 24.15 Mbit/s)
- Flow 2 egress (mean 24.15 Mbit/s)
- Flow 3 ingress (mean 36.86 Mbit/s)
- Flow 3 egress (mean 37.58 Mbit/s)
Run 5: Statistics of Verus

Start at: 2019-11-24 18:09:03
End at: 2019-11-24 18:09:33
Local clock offset: 0.199 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 56.68 Mbit/s
  95th percentile per-packet one-way delay: 191.996 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 22.94 Mbit/s
  95th percentile per-packet one-way delay: 190.376 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 29.22 Mbit/s
  95th percentile per-packet one-way delay: 205.302 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 47.12 Mbit/s
  95th percentile per-packet one-way delay: 171.990 ms
  Loss rate: 1.86%
Run 5: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Local clock offset: 0.242 ms
Remote clock offset: 0.443 ms

# Below is generated by plot.py at 2019-11-24 21:07:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 402.48 Mbit/s
  95th percentile per-packet one-way delay: 134.106 ms
  Loss rate: 1.31%
  -- Flow 1:
  Average throughput: 258.49 Mbit/s
  95th percentile per-packet one-way delay: 134.547 ms
  Loss rate: 0.61%
  -- Flow 2:
  Average throughput: 185.44 Mbit/s
  95th percentile per-packet one-way delay: 134.024 ms
  Loss rate: 2.27%
  -- Flow 3:
  Average throughput: 65.71 Mbit/s
  95th percentile per-packet one-way delay: 132.221 ms
  Loss rate: 4.07%
Run 1: Report of PCC-Vivace — Data Link

![Graph showing network throughput and packet delay over time for three flows with specified mean throughput rates.]

- Flow 1 ingress (mean 257.75 Mbit/s)
- Flow 1 egress (mean 258.49 Mbit/s)
- Flow 2 ingress (mean 187.20 Mbit/s)
- Flow 2 egress (mean 185.44 Mbit/s)
- Flow 3 ingress (mean 66.66 Mbit/s)
- Flow 3 egress (mean 65.71 Mbit/s)
Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 16:03:57
End at: 2019-11-24 16:04:27
Local clock offset: -0.105 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 21:07:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.31 Mbit/s
95th percentile per-packet one-way delay: 150.507 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 265.12 Mbit/s
95th percentile per-packet one-way delay: 156.411 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 178.35 Mbit/s
95th percentile per-packet one-way delay: 140.232 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 120.69 Mbit/s
95th percentile per-packet one-way delay: 136.077 ms
Loss rate: 4.40%
Run 2: Report of PCC-Vivace — Data Link

- **Flow 1**
  - Ingress: 264.47 Mbit/s (mean)
  - Egress: 265.12 Mbit/s (mean)

- **Flow 2**
  - Ingress: 179.38 Mbit/s (mean)
  - Egress: 178.35 Mbit/s (mean)

- **Flow 3**
  - Ingress: 122.82 Mbit/s (mean)
  - Egress: 120.69 Mbit/s (mean)

- **Flow 1**
  - 99th percentile delay: 156.41 ms

- **Flow 2**
  - 99th percentile delay: 140.23 ms

- **Flow 3**
  - 99th percentile delay: 136.08 ms
Run 3: Statistics of PCC-Vivace

End at: 2019-11-24 16:47:56
Local clock offset: -0.064 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-11-24 21:08:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 419.73 Mbit/s
  95th percentile per-packet one-way delay: 134.597 ms
  Loss rate: 1.32%
-- Flow 1:
  Average throughput: 273.35 Mbit/s
  95th percentile per-packet one-way delay: 134.128 ms
  Loss rate: 0.74%
-- Flow 2:
  Average throughput: 162.08 Mbit/s
  95th percentile per-packet one-way delay: 134.102 ms
  Loss rate: 1.61%
-- Flow 3:
  Average throughput: 120.56 Mbit/s
  95th percentile per-packet one-way delay: 165.385 ms
  Loss rate: 4.44%
Run 3: Report of PCC-Vivace — Data Link

### Throughput (Mbit/s)

- **Flow 1 ingress** (mean 272.93 Mbit/s)
- **Flow 1 egress** (mean 273.35 Mbit/s)
- **Flow 2 ingress** (mean 162.53 Mbit/s)
- **Flow 2 egress** (mean 162.08 Mbit/s)
- **Flow 3 ingress** (mean 122.77 Mbit/s)
- **Flow 3 egress** (mean 120.56 Mbit/s)

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

- **Flow 1** (95th percentile 134.13 ms)
- **Flow 2** (95th percentile 134.10 ms)
- **Flow 3** (95th percentile 165.38 ms)
Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 17:30:40
End at: 2019-11-24 17:31:10
Local clock offset: -0.159 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 21:08:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 407.32 Mbit/s
  95th percentile per-packet one-way delay: 150.612 ms
  Loss rate: 1.20%
-- Flow 1:
  Average throughput: 268.87 Mbit/s
  95th percentile per-packet one-way delay: 155.772 ms
  Loss rate: 0.77%
-- Flow 2:
  Average throughput: 176.89 Mbit/s
  95th percentile per-packet one-way delay: 137.031 ms
  Loss rate: 1.64%
-- Flow 3:
  Average throughput: 65.99 Mbit/s
  95th percentile per-packet one-way delay: 132.505 ms
  Loss rate: 4.13%
Run 4: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 268.54 Mbit/s)**
- **Flow 1 egress (mean 268.87 Mbit/s)**
- **Flow 2 ingress (mean 177.43 Mbit/s)**
- **Flow 2 egress (mean 176.89 Mbit/s)**
- **Flow 3 ingress (mean 66.99 Mbit/s)**
- **Flow 3 egress (mean 65.99 Mbit/s)**

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

- **Flow 1 (95th percentile 155.77 ms)**
- **Flow 2 (95th percentile 137.03 ms)**
- **Flow 3 (95th percentile 132.50 ms)**
Run 5: Statistics of PCC-Vivace

End at: 2019-11-24 18:14:00
Local clock offset: -0.067 ms
Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.08 Mbit/s
95th percentile per-packet one-way delay: 188.120 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 256.78 Mbit/s
95th percentile per-packet one-way delay: 293.782 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 182.78 Mbit/s
95th percentile per-packet one-way delay: 141.616 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 115.14 Mbit/s
95th percentile per-packet one-way delay: 139.409 ms
Loss rate: 4.70%
Run 5: Report of PCC-Vivace — Data Link

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

Legend:
- Flow 1 ingress (mean 261.23 Mbit/s)
- Flow 2 ingress (mean 183.96 Mbit/s)
- Flow 3 ingress (mean 117.55 Mbit/s)
- Flow 1 egress (mean 256.78 Mbit/s)
- Flow 2 egress (mean 182.78 Mbit/s)
- Flow 3 egress (mean 115.14 Mbit/s)

Legend for packet delay:
- Flow 1 (95th percentile 293.78 ms)
- Flow 2 (95th percentile 141.62 ms)
- Flow 3 (95th percentile 139.41 ms)
Run 1: Statistics of WebRTC media

End at: 2019-11-24 14:57:25
Local clock offset: -0.133 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 133.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 133.191 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 132.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 133.058 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link

![Graph showing throughput and flow ingress/egress delays over time.]

- Flow 1 ingress (mean 0.07 Mbit/s)
- Flow 1 egress (mean 0.07 Mbit/s)
- Flow 2 ingress (mean 0.06 Mbit/s)
- Flow 2 egress (mean 0.06 Mbit/s)
- Flow 3 ingress (mean 0.06 Mbit/s)
- Flow 3 egress (mean 0.06 Mbit/s)
Run 2: Statistics of WebRTC media

Start at: 2019-11-24 15:39:54
End at: 2019-11-24 15:40:24
Local clock offset: -0.078 ms
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 133.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.516 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.529 ms
Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Local clock offset: -0.116 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 132.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.006 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 132.981 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.988 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2019-11-24 17:06:37
End at: 2019-11-24 17:07:07
Local clock offset: -0.103 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 132.918 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 132.214 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 0.08 Mbit/s
  95th percentile per-packet one-way delay: 132.951 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.07 Mbit/s
  95th percentile per-packet one-way delay: 132.912 ms
  Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link

[Graph showing throughput over time with different flows and mean values labeled.

Graph showing one-way delay over time with different flows and 95th percentile values labeled.]
Run 5: Statistics of WebRTC media

End at: 2019-11-24 17:49:44
Local clock offset: -0.096 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 0.14 Mbit/s
    95th percentile per-packet one-way delay: 133.098 ms
    Loss rate: 0.00%
-- Flow 1:
    Average throughput: 0.05 Mbit/s
    95th percentile per-packet one-way delay: 133.132 ms
    Loss rate: 0.00%
-- Flow 2:
    Average throughput: 0.07 Mbit/s
    95th percentile per-packet one-way delay: 132.950 ms
    Loss rate: 0.00%
-- Flow 3:
    Average throughput: 0.05 Mbit/s
    95th percentile per-packet one-way delay: 133.032 ms
    Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

![Graph showing throughput and end-to-end delay over time for different flows (Flow 1, 2, and 3). The graphs plot throughput in Mbps against time in seconds, and end-to-end delay against time in milliseconds. The graphs include markers for 95th percentile values for each flow.]