Pantheon Report

Generated at 2018-02-03 05:22:19 (UTC).
Data path: Brazil Ethernet (remote) → AWS Brazil 1 Ethernet (local).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (fq), and other schemes with the default Linux qdisc (pfifo_fast).
NTP offsets were measured against gps.ntp.br and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/generalCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d56d38d4c4f0e0c6bf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0f3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a04d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aae82ea08e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a9066b7cf3ccf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccccf993
third_party/pcc @ 1afc9558a0d66d18b623c091a55f8c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cfff2
third_party/scream @ c3370fd7bd12765a79ae34e4016ad23f5965885
third_party/sourdough @ f1a14bfe749737437f61b1eaeeb30b267cde681
third_party/sprotut @ 6f2efe6e088d91066a9f023df375eee2665089ce
M src/examples/cellsim.cc
M src/examples/sprotut2.cc
M src/network/sprotutcc.cc
third_party/verus @ d4b447ea74c6c60a26114afa262952939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c458019212041784ce3
third_party/webtcc @ a488197ddd041ace68a42849b2540ad834825f42
test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>flow 1</td>
<td>flow 2</td>
<td>flow 3</td>
</tr>
<tr>
<td>TCP BBR</td>
<td>10</td>
<td>53.91</td>
<td>46.04</td>
<td>36.93</td>
</tr>
<tr>
<td>TCP Cubic</td>
<td>1</td>
<td>37.95</td>
<td>55.35</td>
<td>39.23</td>
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<td>N/A</td>
<td>N/A</td>
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<td>PCC</td>
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<td>48.14</td>
<td>31.32</td>
<td>9.33</td>
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<tr>
<td>QUIC Cubic</td>
<td>10</td>
<td>11.04</td>
<td>59.53</td>
<td>42.35</td>
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<td>1.46</td>
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<td>35.00</td>
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<td>38.10</td>
<td>31.86</td>
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<td>40.98</td>
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<td>Verus</td>
<td>10</td>
<td>56.46</td>
<td>34.14</td>
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<td>Copa</td>
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<td>29.08</td>
<td>33.69</td>
<td>25.63</td>
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<td>55.88</td>
<td>39.34</td>
<td>31.04</td>
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<td>Indigo-1-32</td>
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<td>40.31</td>
<td>46.51</td>
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<td>Vivace-latency</td>
<td>10</td>
<td>35.92</td>
<td>21.39</td>
<td>23.74</td>
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<td>Vivace-loss</td>
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<td>42.23</td>
<td>43.02</td>
<td>37.93</td>
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<td>Vivace-LTE</td>
<td>10</td>
<td>57.52</td>
<td>29.39</td>
<td>30.92</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-02-02 22:06:35
End at: 2018-02-02 22:07:05
Local clock offset: 0.22 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2018-02-03 05:00:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.28 Mbit/s
  95th percentile per-packet one-way delay: 35.672 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 56.35 Mbit/s
  95th percentile per-packet one-way delay: 35.215 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 43.89 Mbit/s
  95th percentile per-packet one-way delay: 35.552 ms
  Loss rate: 0.13%
-- Flow 3:
  Average throughput: 35.52 Mbit/s
  95th percentile per-packet one-way delay: 36.640 ms
  Loss rate: 0.44%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-02-02 22:26:58
End at: 2018-02-02 22:27:28
Local clock offset: 0.232 ms
Remote clock offset: -20.019 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 56.473 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 70.92 Mbit/s
95th percentile per-packet one-way delay: 55.082 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 57.052 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 57.374 ms
Loss rate: 0.55%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2018-02-02 22:47:14
End at: 2018-02-02 22:47:44
Local clock offset: 0.252 ms
Remote clock offset: -3.141 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 31.601 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 31.401 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 31.339 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 32.299 ms
Loss rate: 0.27%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-02-02 23:07:34
End at: 2018-02-02 23:08:04
Local clock offset: 0.3 ms
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 26.283 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 26.231 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 26.386 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 22.224 ms
Loss rate: 0.20%
Run 4: Report of TCP BBR — Data Link

The graphs above show the throughput and per-packet one-way delay for different flows. The throughput graph indicates the amount of data sent and received over time. The per-packet one-way delay graph shows the time it takes for each packet to travel from the sender to the receiver. The data points are color-coded to distinguish between different flows, and the legends provide further details on the throughput (in Megabits per second) and delay (in milliseconds) for each flow.
Run 5: Statistics of TCP BBR

Start at: 2018-02-02 23:27:58
End at: 2018-02-02 23:28:28
Local clock offset: 0.212 ms
Remote clock offset: 0.78 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 35.858 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 35.351 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 58.78 Mbit/s
95th percentile per-packet one-way delay: 35.971 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 36.687 ms
Loss rate: 0.32%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-02-02 23:48:25
End at: 2018-02-02 23:48:55
Local clock offset: 0.261 ms
Remote clock offset: 0.357 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 37.407 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 48.07 Mbit/s
95th percentile per-packet one-way delay: 37.169 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 37.278 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 34.42 Mbit/s
95th percentile per-packet one-way delay: 37.955 ms
Loss rate: 0.40%
Run 7: Statistics of TCP BBR

Start at: 2018-02-03 00:08:43
End at: 2018-02-03 00:09:13
Local clock offset: 0.202 ms
Remote clock offset: -19.392 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.56 Mbit/s
  95th percentile per-packet one-way delay: 47.394 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 37.82 Mbit/s
  95th percentile per-packet one-way delay: 37.174 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 65.48 Mbit/s
  95th percentile per-packet one-way delay: 47.439 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 45.89 Mbit/s
  95th percentile per-packet one-way delay: 47.865 ms
  Loss rate: 0.38%
Run 7: Report of TCP BBR — Data Link

![Throughput Chart]

![Delay Chart]

Legend:
- Flow 1 ingress (mean 37.85 Mbit/s)
- Flow 1 egress (mean 37.82 Mbit/s)
- Flow 2 ingress (mean 65.46 Mbit/s)
- Flow 2 egress (mean 65.48 Mbit/s)
- Flow 3 ingress (mean 45.99 Mbit/s)
- Flow 3 egress (mean 45.89 Mbit/s)

Legend:
- Flow 1 (95th percentile 37.17 ms)
- Flow 2 (95th percentile 47.44 ms)
- Flow 3 (95th percentile 47.87 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-02-03 00:29:01
End at: 2018-02-03 00:29:31
Local clock offset: 0.135 ms
Remote clock offset: 1.622 ms

# Below is generated by plot.py at 2018-02-03 05:00:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 28.433 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 28.169 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 28.661 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 29.782 ms
Loss rate: 0.17%
Run 8: Report of TCP BBR — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 9: Statistics of TCP BBR

Start at: 2018-02-03 00:49:30
End at: 2018-02-03 00:50:00
Local clock offset: 0.207 ms
Remote clock offset: 1.431 ms

# Below is generated by plot.py at 2018-02-03 05:01:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 18.097 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 17.070 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 51.84 Mbit/s
95th percentile per-packet one-way delay: 17.918 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 19.222 ms
Loss rate: 0.20%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-02-03 01:09:54
End at: 2018-02-03 01:10:24
Local clock offset: 0.16 ms
Remote clock offset: 1.139 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.28 Mbit/s
  95th percentile per-packet one-way delay: 33.824 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 45.43 Mbit/s
  95th percentile per-packet one-way delay: 33.502 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 58.65 Mbit/s
  95th percentile per-packet one-way delay: 33.474 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 38.71 Mbit/s
  95th percentile per-packet one-way delay: 34.636 ms
  Loss rate: 0.40%
Run 10: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 45.46 Mbps)
- Flow 1 egress (mean 45.43 Mbps)
- Flow 2 ingress (mean 58.62 Mbps)
- Flow 2 egress (mean 58.65 Mbps)
- Flow 3 ingress (mean 38.75 Mbps)
- Flow 3 egress (mean 38.71 Mbps)

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

- Flow 1 (95th percentile 33.50 ms)
- Flow 2 (95th percentile 33.47 ms)
- Flow 3 (95th percentile 34.64 ms)
Run 1: Statistics of TCP Cubic

Start at: 2018-02-02 22:07:43
End at: 2018-02-02 22:08:13
Local clock offset: 0.2 ms
Remote clock offset: 0.244 ms
Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-02-02 22:28:06
End at: 2018-02-02 22:28:36
Local clock offset: 0.243 ms
Remote clock offset: 0.256 ms
Run 2: Report of TCP Cubic — Data Link

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Run 3: Statistics of TCP Cubic

Start at: 2018-02-02 22:48:22
End at: 2018-02-02 22:48:52
Local clock offset: 0.267 ms
Remote clock offset: -7.632 ms
Run 3: Report of TCP Cubic — Data Link

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Run 4: Statistics of TCP Cubic

Start at: 2018-02-02 23:08:42
End at: 2018-02-02 23:09:12
Local clock offset: 0.281 ms
Remote clock offset: -7.965 ms
Run 4: Report of TCP Cubic — Data Link

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Run 5: Statistics of TCP Cubic

Start at: 2018-02-02 23:29:06
End at: 2018-02-02 23:29:36
Local clock offset: 0.213 ms
Remote clock offset: -4.288 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.74 Mbit/s
  95th percentile per-packet one-way delay: 37.047 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 37.95 Mbit/s
  95th percentile per-packet one-way delay: 35.723 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 55.35 Mbit/s
  95th percentile per-packet one-way delay: 36.983 ms
  Loss rate: 0.39%
-- Flow 3:
  Average throughput: 39.23 Mbit/s
  95th percentile per-packet one-way delay: 38.101 ms
  Loss rate: 1.51%
Run 5: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 37.98 Mbit/s)
- Flow 1 egress (mean 37.95 Mbit/s)
- Flow 2 ingress (mean 55.32 Mbit/s)
- Flow 2 egress (mean 55.35 Mbit/s)
- Flow 3 ingress (mean 39.36 Mbit/s)
- Flow 3 egress (mean 39.23 Mbit/s)

![Graph 2: Per-packet round-trip delay vs Time](image)

- Flow 1 (95th percentile 35.72 ms)
- Flow 2 (95th percentile 36.98 ms)
- Flow 3 (95th percentile 38.10 ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-02-02 23:49:33
End at: 2018-02-02 23:50:03
Local clock offset: 0.271 ms
Remote clock offset: -19.038 ms
Run 6: Report of TCP Cubic — Data Link

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Run 7: Statistics of TCP Cubic

Start at: 2018-02-03 00:09:51
End at: 2018-02-03 00:10:21
Local clock offset: 0.244 ms
Remote clock offset: -18.916 ms
Run 7: Report of TCP Cubic — Data Link

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Run 8: Statistics of TCP Cubic

Start at: 2018-02-03 00:30:09
End at: 2018-02-03 00:30:39
Local clock offset: 0.192 ms
Remote clock offset: 1.524 ms
Run 8: Report of TCP Cubic — Data Link

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Run 9: Statistics of TCP Cubic

Start at: 2018-02-03 00:50:38
End at: 2018-02-03 00:51:08
Local clock offset: 0.227 ms
Remote clock offset: 1.465 ms
Run 9: Report of TCP Cubic — Data Link

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Run 10: Statistics of TCP Cubic

Start at: 2018-02-03 01:11:02
End at: 2018-02-03 01:11:32
Local clock offset: 0.1 ms
Remote clock offset: 1.067 ms
Run 10: Report of TCP Cubic — Data Link

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Run 1: Statistics of LEDBAT

Start at: 2018-02-02 22:12:23
End at: 2018-02-02 22:12:53
Local clock offset: 0.185 ms
Remote clock offset: -19.948 ms
Run 1: Report of LEDBAT — Data Link

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Run 2: Statistics of LEDBAT

Start at: 2018-02-02 22:32:41
End at: 2018-02-02 22:33:11
Local clock offset: 0.185 ms
Remote clock offset: 0.296 ms
Run 2: Report of LEDBAT — Data Link

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Run 3: Statistics of LEDBAT

Start at: 2018-02-02 22:52:56
End at: 2018-02-02 22:53:26
Local clock offset: 0.297 ms
Remote clock offset: 0.233 ms
Run 3: Report of LEDBAT — Data Link

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Run 4: Statistics of LEDBAT

Start at: 2018-02-02 23:13:20
End at: 2018-02-02 23:13:50
Local clock offset: 0.302 ms
Remote clock offset: -4.113 ms
Run 4: Report of LEDBAT — Data Link

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Run 5: Statistics of LEDBAT

Start at: 2018-02-02 23:33:45
End at: 2018-02-02 23:34:15
Local clock offset: 0.276 ms
Remote clock offset: 0.757 ms
Run 5: Report of LEDBAT — Data Link

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Run 6: Statistics of LEDBAT

Start at: 2018-02-02 23:54:08
End at: 2018-02-02 23:54:38
Local clock offset: 0.244 ms
Remote clock offset: 1.04 ms
Run 6: Report of LEDBAT — Data Link

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Run 7: Statistics of LEDBAT

Start at: 2018-02-03 00:14:26
End at: 2018-02-03 00:14:56
Local clock offset: 0.209 ms
Remote clock offset: 1.316 ms
Run 7: Report of LEDBAT — Data Link

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Run 8: Statistics of LEDBAT

Start at: 2018-02-03 00:34:44
End at: 2018-02-03 00:35:14
Local clock offset: 0.193 ms
Remote clock offset: 1.655 ms
Run 8: Report of LEDBAT — Data Link

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Run 9: Statistics of LEDBAT

Start at: 2018-02-03 00:55:15
End at: 2018-02-03 00:55:45
Local clock offset: 0.202 ms
Remote clock offset: 1.271 ms
Run 9: Report of LEDBAT — Data Link

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Run 10: Statistics of LEDBAT

Start at: 2018-02-03 01:15:40
End at: 2018-02-03 01:16:10
Local clock offset: 0.098 ms
Remote clock offset: -0.537 ms
Run 10: Report of LEDBAT — Data Link

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Run 1: Statistics of PCC

Start at: 2018-02-02 22:13:31
End at: 2018-02-02 22:14:01
Local clock offset: 0.215 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.20 Mbit/s
  95th percentile per-packet one-way delay: 5.111 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 73.16 Mbit/s
  95th percentile per-packet one-way delay: 4.983 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 13.60 Mbit/s
  95th percentile per-packet one-way delay: 9.461 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 0.00 Mbit/s
  95th percentile per-packet one-way delay: 4.286 ms
  Loss rate: 0.00%
Run 1: Report of PCC — Data Link

![Graph 1: Throughput](image1)

![Graph 2: Packet Delay](image2)
Run 2: Statistics of PCC

Start at: 2018-02-02 22:33:48
End at: 2018-02-02 22:34:18
Local clock offset: 0.203 ms
Remote clock offset: 0.238 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 55.67 Mbit/s
95th percentile per-packet one-way delay: 15.086 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 14.667 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 76.47 Mbit/s
95th percentile per-packet one-way delay: 15.085 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 15.215 ms
Loss rate: 0.03%
Run 2: Report of PCC — Data Link

![Throughput Graph] (Typical X-axis: Time (s), Y-axis: Throughput (Mbps), Legend: Flow 1 ingress (mean 2.13 Mbit/s), Flow 1 egress (mean 2.13 Mbit/s), Flow 2 ingress (mean 76.43 Mbit/s), Flow 2 egress (mean 76.47 Mbit/s), Flow 3 ingress (mean 8.23 Mbit/s), Flow 3 egress (mean 8.23 Mbit/s))

![Latency Graph] (Typical X-axis: Time (s), Y-axis: Per-packet one way delay (ms), Legend: Flow 1 (95th percentile 14.67 ms), Flow 2 (95th percentile 15.09 ms), Flow 3 (95th percentile 15.21 ms))

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Run 3: Statistics of PCC

Start at: 2018-02-02 22:54:04
End at: 2018-02-02 22:54:34
Local clock offset: 0.298 ms
Remote clock offset: -19.941 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 32.237 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.91 Mbit/s
95th percentile per-packet one-way delay: 31.785 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 33.185 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 34.027 ms
Loss rate: 0.06%
Run 3: Report of PCC — Data Link

![Throughput Chart]

- Flow 1 ingress (mean 79.92 Mb/s)
- Flow 1 egress (mean 79.91 Mb/s)
- Flow 2 ingress (mean 13.04 Mb/s)
- Flow 2 egress (mean 13.04 Mb/s)
- Flow 3 ingress (mean 4.55 Mb/s)
- Flow 3 egress (mean 4.55 Mb/s)

![Latency Chart]

- Flow 1 (95th percentile 31.79 ms)
- Flow 2 (95th percentile 33.19 ms)
- Flow 3 (95th percentile 34.03 ms)
Run 4: Statistics of PCC

Start at: 2018-02-02 23:14:28
End at: 2018-02-02 23:14:58
Local clock offset: 0.292 ms
Remote clock offset: 0.443 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 74.43 Mbit/s
  95th percentile per-packet one-way delay: 5.789 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 69.27 Mbit/s
  95th percentile per-packet one-way delay: 5.688 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 2.74 Mbit/s
  95th percentile per-packet one-way delay: 6.301 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 10.13 Mbit/s
  95th percentile per-packet one-way delay: 7.312 ms
  Loss rate: 0.04%
Run 4: Report of PCC — Data Link

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

![Graph 2: Per-packet one-way delay (ms)](image2)
Run 5: Statistics of PCC

Start at: 2018-02-02 23:34:53
End at: 2018-02-02 23:35:23
Local clock offset: 0.225 ms
Remote clock offset: -2.728 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 28.542 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 28.286 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 28.666 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 29.365 ms
Loss rate: 0.06%
Run 5: Report of PCC — Data Link
Run 6: Statistics of PCC

Start at: 2018-02-02 23:55:15
End at: 2018-02-02 23:55:45
Local clock offset: 0.167 ms
Remote clock offset: 1.062 ms

# Below is generated by plot.py at 2018-02-03 05:01:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.25 Mbit/s
95th percentile per-packet one-way delay: 3.819 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 17.59 Mbit/s
95th percentile per-packet one-way delay: 3.850 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 31.02 Mbit/s
95th percentile per-packet one-way delay: 3.588 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 18.36 Mbit/s
95th percentile per-packet one-way delay: 4.361 ms
Loss rate: 0.05%
Run 6: Report of PCC — Data Link
Run 7: Statistics of PCC

Start at: 2018-02-03 00:15:34
End at: 2018-02-03 00:16:04
Local clock offset: 0.197 ms
Remote clock offset: 1.361 ms

# Below is generated by plot.py at 2018-02-03 05:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 28.448 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.41 Mbit/s
95th percentile per-packet one-way delay: 27.721 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 28.795 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 29.142 ms
Loss rate: 0.06%
Run 7: Report of PCC — Data Link

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

- Flow 1 ingress (mean 45.42 Mbit/s)
- Flow 1 egress (mean 45.41 Mbit/s)
- Flow 2 ingress (mean 35.20 Mbit/s)
- Flow 2 egress (mean 35.20 Mbit/s)
- Flow 3 ingress (mean 18.67 Mbit/s)
- Flow 3 egress (mean 10.68 Mbit/s)

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

- Flow 1 (95th percentile 27.72 ms)
- Flow 2 (95th percentile 28.80 ms)
- Flow 3 (95th percentile 29.14 ms)
Run 8: Statistics of PCC

Start at: 2018-02-03 00:35:52
End at: 2018-02-03 00:36:22
Local clock offset: 0.189 ms
Remote clock offset: 1.662 ms

# Below is generated by plot.py at 2018-02-03 05:02:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 15.520 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 15.547 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 15.574 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 6.807 ms
Loss rate: 0.08%
Run 9: Statistics of PCC

Start at: 2018-02-03 00:56:23
End at: 2018-02-03 00:56:53
Local clock offset: 0.202 ms
Remote clock offset: 1.316 ms

# Below is generated by plot.py at 2018-02-03 05:02:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 16.783 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 16.379 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 71.00 Mbit/s
95th percentile per-packet one-way delay: 16.770 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 18.68 Mbit/s
95th percentile per-packet one-way delay: 17.010 ms
Loss rate: 0.07%
Run 9: Report of PCC — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 5.62 Mbps)
- Flow 1 egress (mean 5.62 Mbps)
- Flow 2 ingress (mean 71.01 Mbps)
- Flow 2 egress (mean 71.00 Mbps)
- Flow 3 ingress (mean 18.67 Mbps)
- Flow 3 egress (mean 16.68 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 16.38 ms)
- Flow 2 (95th percentile 16.77 ms)
- Flow 3 (95th percentile 17.01 ms)
Run 10: Statistics of PCC

Start at: 2018-02-03 01:16:48
End at: 2018-02-03 01:17:18
Local clock offset: 0.186 ms
Remote clock offset: -19.237 ms

# Below is generated by plot.py at 2018-02-03 05:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.36 Mbit/s
95th percentile per-packet one-way delay: 34.194 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 34.170 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 34.615 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 27.968 ms
Loss rate: 0.06%
Run 10: Report of PCC — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-02 22:19:07
End at: 2018-02-02 22:19:37
Local clock offset: 0.225 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-02-03 05:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.18 Mbit/s
95th percentile per-packet one-way delay: 24.429 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 2.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.97 Mbit/s
95th percentile per-packet one-way delay: 24.400 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 24.469 ms
Loss rate: 0.22%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-02 22:39:25
End at: 2018-02-02 22:39:55
Local clock offset: 0.251 ms
Remote clock offset: 0.276 ms

# Below is generated by plot.py at 2018-02-03 05:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.20 Mbit/s
95th percentile per-packet one-way delay: 24.423 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 2.437 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.90 Mbit/s
95th percentile per-packet one-way delay: 24.388 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 24.489 ms
Loss rate: 0.24%
Run 2: Report of QUIC Cubic — Data Link

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

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

Start at: 2018-02-02 22:59:40
End at: 2018-02-02 23:00:10
Local clock offset: 0.22 ms
Remote clock offset: -0.973 ms

# Below is generated by plot.py at 2018-02-03 05:02:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.04 Mbit/s
  95th percentile per-packet one-way delay: 25.695 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 1.07 Mbit/s
  95th percentile per-packet one-way delay: 3.583 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 49.72 Mbit/s
  95th percentile per-packet one-way delay: 25.601 ms
  Loss rate: 0.13%
-- Flow 3:
  Average throughput: 48.69 Mbit/s
  95th percentile per-packet one-way delay: 25.879 ms
  Loss rate: 0.27%
Run 3: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 1.05 Mbit/s)
- Flow 1 egress (mean 1.07 Mbit/s)
- Flow 2 ingress (mean 49.77 Mbit/s)
- Flow 2 egress (mean 49.72 Mbit/s)
- Flow 3 ingress (mean 48.76 Mbit/s)
- Flow 3 egress (mean 48.69 Mbit/s)

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

- Flow 1 (95th percentile 3.50 ms)
- Flow 2 (95th percentile 25.60 ms)
- Flow 3 (95th percentile 25.88 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-02 23:20:04
End at: 2018-02-02 23:20:34
Local clock offset: 0.287 ms
Remote clock offset: 0.628 ms

# Below is generated by plot.py at 2018-02-03 05:02:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 59.30 Mbit/s
  95th percentile per-packet one-way delay: 24.449 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 1.11 Mbit/s
  95th percentile per-packet one-way delay: 2.562 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 66.92 Mbit/s
  95th percentile per-packet one-way delay: 24.425 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 44.89 Mbit/s
  95th percentile per-packet one-way delay: 24.488 ms
  Loss rate: 0.22%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-02 23:40:31
End at: 2018-02-02 23:41:01
Local clock offset: 0.214 ms
Remote clock offset: 0.908 ms

# Below is generated by plot.py at 2018-02-03 05:03:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 24.384 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 2.505 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.50 Mbit/s
95th percentile per-packet one-way delay: 24.352 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 46.25 Mbit/s
95th percentile per-packet one-way delay: 24.435 ms
Loss rate: 0.24%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-03 00:00:51
End at: 2018-02-03 00:01:21
Local clock offset: 0.244 ms
Remote clock offset: 1.101 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.87 Mbit/s
  95th percentile per-packet one-way delay: 35.180 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 56.48 Mbit/s
  95th percentile per-packet one-way delay: 35.065 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 40.00 Mbit/s
  95th percentile per-packet one-way delay: 35.230 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 29.91 Mbit/s
  95th percentile per-packet one-way delay: 35.246 ms
  Loss rate: 0.46%
Run 6: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 56.47 Mbit/s)
- Flow 1 egress (mean 56.48 Mbit/s)
- Flow 2 ingress (mean 40.00 Mbit/s)
- Flow 2 egress (mean 40.00 Mbit/s)
- Flow 3 ingress (mean 29.97 Mbit/s)
- Flow 3 egress (mean 29.92 Mbit/s)

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

- Flow 1 (95th percentile 35.06 ms)
- Flow 2 (95th percentile 35.23 ms)
- Flow 3 (95th percentile 35.25 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-03 00:21:10
End at: 2018-02-03 00:21:40
Local clock offset: 0.179 ms
Remote clock offset: 1.444 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 83.44 Mbit/s
  95th percentile per-packet one-way delay: 34.417 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 48.40 Mbit/s
  95th percentile per-packet one-way delay: 33.431 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 40.70 Mbit/s
  95th percentile per-packet one-way delay: 34.530 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 24.47 Mbit/s
  95th percentile per-packet one-way delay: 35.126 ms
  Loss rate: 0.52%
Run 7: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 48.41 Mbit/s)**
- **Flow 1 egress (mean 48.40 Mbit/s)**
- **Flow 2 ingress (mean 40.71 Mbit/s)**
- **Flow 2 egress (mean 40.70 Mbit/s)**
- **Flow 3 ingress (mean 24.50 Mbit/s)**
- **Flow 3 egress (mean 24.47 Mbit/s)**

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

- **Flow 1 (95th percentile 33.43 ms)**
- **Flow 2 (95th percentile 34.53 ms)**
- **Flow 3 (95th percentile 35.13 ms)**

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Run 8: Statistics of QUIC Cubic

Start at: 2018-02-03 00:41:30
End at: 2018-02-03 00:42:00
Local clock offset: 0.22 ms
Remote clock offset: -4.355 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 30.491 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 8.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 30.442 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 30.617 ms
Loss rate: 0.34%
Run 8: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 0.60 Mbit/s)
- Flow 1 egress (mean 0.62 Mbit/s)
- Flow 2 ingress (mean 68.28 Mbit/s)
- Flow 2 egress (mean 68.28 Mbit/s)
- Flow 3 ingress (mean 46.75 Mbit/s)
- Flow 3 egress (mean 46.62 Mbit/s)
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-03 01:02:01
End at: 2018-02-03 01:02:31
Local clock offset: 0.202 ms
Remote clock offset: -18.424 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 57.89 Mbit/s
  95th percentile per-packet one-way delay: 44.089 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 0.23 Mbit/s
  95th percentile per-packet one-way delay: 22.241 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 64.40 Mbit/s
  95th percentile per-packet one-way delay: 44.069 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 45.59 Mbit/s
  95th percentile per-packet one-way delay: 44.122 ms
  Loss rate: 0.24%
Run 9: Report of QUIC Cubic — Data Link

![Graph of Throughput vs Time](image1)

![Graph of Per-packet one-way delay vs Time](image2)
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-03 01:22:27
End at: 2018-02-03 01:22:57
Local clock offset: 0.145 ms
Remote clock offset: 1.012 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 55.36 Mbit/s
  95th percentile per-packet one-way delay: 24.464 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 2.634 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 59.94 Mbit/s
  95th percentile per-packet one-way delay: 24.431 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 45.96 Mbit/s
  95th percentile per-packet one-way delay: 24.565 ms
  Loss rate: 0.29%
Run 10: Report of QUIC Cubic — Data Link

[Graphs showing throughput and per-packet round-trip delay over time for different flows.]
Run 1: Statistics of SCReAM

Start at: 2018-02-02 22:18:03
End at: 2018-02-02 22:18:33
Local clock offset: 0.205 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.442 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link

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

- Throughput (Mbps):
  - Flow 1 ingress (mean 0.22 Mbps)
  - Flow 1 egress (mean 0.22 Mbps)
  - Flow 2 ingress (mean 0.22 Mbps)
  - Flow 2 egress (mean 0.22 Mbps)
  - Flow 3 ingress (mean 0.22 Mbps)
  - Flow 3 egress (mean 0.22 Mbps)

- Per-packet one-way delay (ms):
  - Flow 1 (95th percentile 2.44 ms)
  - Flow 2 (95th percentile 2.47 ms)
  - Flow 3 (95th percentile 2.45 ms)
Run 2: Statistics of SCReAM

Start at: 2018-02-02 22:38:21
End at: 2018-02-02 22:38:51
Local clock offset: 0.264 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 2.397 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.396 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.387 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.415 ms
  Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2018-02-02 22:58:36
End at: 2018-02-02 22:59:06
Local clock offset: 0.257 ms
Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.431 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.414 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.395 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-02-02 23:19:00
End at: 2018-02-02 23:19:30
Local clock offset: 0.236 ms
Remote clock offset: 0.617 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.347 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.353 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.467 ms
Loss rate: 0.00%
Run 5: Statistics of SCReAM

Start at: 2018-02-02 23:39:27
End at: 2018-02-02 23:39:57
Local clock offset: 0.21 ms
Remote clock offset: 0.837 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 2.425 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.429 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.394 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.460 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 0.22 Mb/s)
Flow 1 egress (mean 0.22 Mb/s)
Flow 2 ingress (mean 0.22 Mb/s)
Flow 2 egress (mean 0.22 Mb/s)
Flow 3 ingress (mean 0.22 Mb/s)
Flow 3 egress (mean 0.22 Mb/s)

Packet one-way delays (ms)

Time (s)

Flow 1 (95th percentile 2.43 ms)
Flow 2 (95th percentile 2.39 ms)
Flow 3 (95th percentile 2.46 ms)
Run 6: Statistics of SCReAM

Start at: 2018-02-02 23:59:47
End at: 2018-02-03 00:00:17
Local clock offset: 0.173 ms
Remote clock offset: 1.108 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 2.354 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.377 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.332 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.331 ms
  Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-02-03 00:20:06
End at: 2018-02-03 00:20:36
Local clock offset: 0.208 ms
Remote clock offset: -13.128 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 17.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.983 ms
Loss rate: 0.00%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-02-03 00:40:26
End at: 2018-02-03 00:40:56
Local clock offset: 0.145 ms
Remote clock offset: 1.715 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 2.344 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.351 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.332 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.366 ms
  Loss rate: 0.00%
Run 9: Statistics of SCReAM

Start at: 2018-02-03 01:00:57
End at: 2018-02-03 01:01:27
Local clock offset: 0.193 ms
Remote clock offset: 1.262 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.378 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.389 ms
Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link

![Graph showing throughput over time for Flows 1, 2, and 3.]

![Graph showing packet delay over time for Flows 1, 2, and 3.]

Flow 1 ingress (mean 0.22 Mbit/s), Flow 1 egress (mean 0.22 Mbit/s), Flow 2 ingress (mean 0.22 Mbit/s), Flow 2 egress (mean 0.22 Mbit/s), Flow 3 ingress (mean 0.22 Mbit/s), Flow 3 egress (mean 0.22 Mbit/s).

Flow 1 (95th percentile 2.38 ms), Flow 2 (95th percentile 2.38 ms), Flow 3 (95th percentile 2.39 ms).
Run 10: Statistics of SCReAM

Start at: 2018-02-03 01:21:23
End at: 2018-02-03 01:21:53
Local clock offset: 0.096 ms
Remote clock offset: 1.008 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 2.345 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.347 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.344 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 2.343 ms
  Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

![Graph of Throughput over Time](image)

![Graph of Packet Loss over Time](image)
Run 1: Statistics of WebRTC media

Start at: 2018-02-02 22:23:37
End at: 2018-02-02 22:24:07
Local clock offset: 0.191 ms
Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 3.102 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 3.078 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 3.127 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 3.139 ms
Loss rate: 0.19%
Run 1: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.43 Mbps)
- Flow 1 egress (mean 2.43 Mbps)
- Flow 2 ingress (mean 1.46 Mbps)
- Flow 2 egress (mean 1.46 Mbps)
- Flow 3 ingress (mean 0.63 Mbps)
- Flow 3 egress (mean 0.62 Mbps)

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

- Flow 1 (95th percentile 3.08 ms)
- Flow 2 (95th percentile 3.13 ms)
- Flow 3 (95th percentile 3.14 ms)
Run 2: Statistics of WebRTC media

Start at: 2018-02-02 22:43:54
End at: 2018-02-02 22:44:24
Local clock offset: 0.194 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 3.203 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 3.182 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 3.260 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 3.188 ms
Loss rate: 0.28%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2018-02-02 23:04:12
End at: 2018-02-02 23:04:42
Local clock offset: 0.276 ms
Remote clock offset: 0.293 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 3.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 3.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 3.444 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 3.044 ms
Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-02-02 23:24:36  
End at: 2018-02-02 23:25:06  
Local clock offset: 0.284 ms  
Remote clock offset: 0.655 ms  

# Below is generated by plot.py at 2018-02-03 05:04:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.45 Mbit/s  
95th percentile per-packet one-way delay: 3.349 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 3.327 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 3.302 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 3.511 ms  
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-02-02 23:45:02
End at: 2018-02-02 23:45:32
Local clock offset: 0.262 ms
Remote clock offset: 0.976 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.42 Mbit/s
95th percentile per-packet one-way delay: 3.317 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 3.356 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 3.284 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 3.251 ms
Loss rate: 0.28%
Run 5: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 2.35 Mbps)
  - Flow 1 egress (mean 2.35 Mbps)
  - Flow 2 ingress (mean 1.43 Mbps)
  - Flow 2 egress (mean 1.44 Mbps)
  - Flow 3 ingress (mean 0.66 Mbps)
  - Flow 3 egress (mean 0.66 Mbps)

- **Packet round-trip time (ms):**
  - Flow 1 (95th percentile 3.36 ms)
  - Flow 2 (95th percentile 3.28 ms)
  - Flow 3 (95th percentile 3.25 ms)
Run 6: Statistics of WebRTC media

Start at: 2018-02-03 00:05:22
End at: 2018-02-03 00:05:52
Local clock offset: 0.218 ms
Remote clock offset: -19.414 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 23.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 23.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 23.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 23.682 ms
Loss rate: 0.01%
Run 6: Report of WebRTC media — Data Link

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

**Key:**
- Flow 1 ingress (mean 2.36 Mbit/s)
- Flow 1 egress (mean 2.36 Mbit/s)
- Flow 2 ingress (mean 1.48 Mbit/s)
- Flow 2 egress (mean 1.48 Mbit/s)
- Flow 3 ingress (mean 0.47 Mbit/s)
- Flow 3 egress (mean 0.47 Mbit/s)

![Graph 2: Delay Over Time](image2.png)

**Key:**
- Flow 1 (95th percentile 23.73 ms)
- Flow 2 (95th percentile 23.84 ms)
- Flow 3 (95th percentile 23.68 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-02-03 00:25:42
End at: 2018-02-03 00:26:12
Local clock offset: 0.181 ms
Remote clock offset: 1.47 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.39 Mbit/s
  95th percentile per-packet one-way delay: 3.395 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 2.36 Mbit/s
  95th percentile per-packet one-way delay: 3.406 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 1.42 Mbit/s
  95th percentile per-packet one-way delay: 3.320 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 3.552 ms
  Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.36 Mbit/s)
- Flow 1 egress (mean 2.36 Mbit/s)
- Flow 2 ingress (mean 1.42 Mbit/s)
- Flow 2 egress (mean 1.42 Mbit/s)
- Flow 3 ingress (mean 0.64 Mbit/s)
- Flow 3 egress (mean 0.64 Mbit/s)

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

- Flow 1 (95th percentile 3.41 ms)
- Flow 2 (95th percentile 3.32 ms)
- Flow 3 (95th percentile 3.55 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-02-03 00:46:09
End at: 2018-02-03 00:46:39
Local clock offset: 0.136 ms
Remote clock offset: -18.119 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 22.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 22.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 22.834 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 23.406 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.19 Mbps)
- Flow 1 egress (mean 2.19 Mbps)
- Flow 2 ingress (mean 1.47 Mbps)
- Flow 2 egress (mean 1.47 Mbps)
- Flow 3 ingress (mean 0.64 Mbps)
- Flow 3 egress (mean 0.64 Mbps)

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

- Flow 1 (95th percentile 22.74 ms)
- Flow 2 (95th percentile 22.83 ms)
- Flow 3 (95th percentile 23.41 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-02-03 01:06:32
End at: 2018-02-03 01:07:02
Local clock offset: 0.118 ms
Remote clock offset: 1.149 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 3.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 3.307 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 3.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 3.476 ms
Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.38 Mbit/s)
- Flow 1 egress (mean 2.38 Mbit/s)
- Flow 2 ingress (mean 1.47 Mbit/s)
- Flow 2 egress (mean 1.47 Mbit/s)
- Flow 3 ingress (mean 0.63 Mbit/s)
- Flow 3 egress (mean 0.63 Mbit/s)

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

- Flow 1 95th percentile 3.31 ms
- Flow 2 95th percentile 3.23 ms
- Flow 3 95th percentile 3.48 ms
Run 10: Statistics of WebRTC media

Start at: 2018-02-03 01:27:00
End at: 2018-02-03 01:27:30
Local clock offset: 0.092 ms
Remote clock offset: 0.423 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 3.770 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 3.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 3.704 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 3.604 ms
Loss rate: 0.05%
Run 10: Report of WebRTC media — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 2.28 Mbit/s)  Flow 1 egress (mean 2.28 Mbit/s)
Flow 2 ingress (mean 1.51 Mbit/s)  Flow 2 egress (mean 1.51 Mbit/s)
Flow 3 ingress (mean 0.64 Mbit/s)  Flow 3 egress (mean 0.64 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 3.84 ms)  Flow 2 (95th percentile 3.70 ms)  Flow 3 (95th percentile 3.60 ms)
Run 1: Statistics of Sprout

Start at: 2018-02-02 22:20:14
End at: 2018-02-02 22:20:44
Local clock offset: 0.215 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2018-02-03 05:04:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.43 Mbit/s
95th percentile per-packet one-way delay: 19.082 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 16.285 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 33.19 Mbit/s
95th percentile per-packet one-way delay: 19.063 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 21.976 ms
Loss rate: 0.35%
Run 1: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 44.69 Mbps)
Flow 1 egress (mean 44.69 Mbps)
Flow 2 ingress (mean 33.19 Mbps)
Flow 2 egress (mean 33.19 Mbps)
Flow 3 ingress (mean 29.43 Mbps)
Flow 3 egress (mean 29.32 Mbps)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 16.29 ms)
Flow 2 (95th percentile 19.06 ms)
Flow 3 (95th percentile 21.98 ms)
Run 2: Statistics of Sprout

Start at: 2018-02-02 22:40:32
End at: 2018-02-02 22:41:02
Local clock offset: 0.295 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2018-02-03 05:04:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.59 Mbit/s
95th percentile per-packet one-way delay: 20.676 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 19.560 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 36.92 Mbit/s
95th percentile per-packet one-way delay: 20.807 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 22.788 ms
Loss rate: 0.30%
Run 2: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 42.30 Mbit/s)
- Flow 1 egress (mean 42.28 Mbit/s)
- Flow 2 ingress (mean 36.97 Mbit/s)
- Flow 2 egress (mean 36.92 Mbit/s)
- Flow 3 ingress (mean 29.67 Mbit/s)
- Flow 3 egress (mean 29.66 Mbit/s)

![Graph showing packet round trip time for different flows.]

- Flow 1 (95th percentile 19.56 ms)
- Flow 2 (95th percentile 20.81 ms)
- Flow 3 (95th percentile 22.79 ms)
Run 3: Statistics of Sprout

Start at: 2018-02-02 23:00:47
End at: 2018-02-02 23:01:17
Local clock offset: 0.238 ms
Remote clock offset: -19.903 ms

# Below is generated by plot.py at 2018-02-03 05:04:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 72.15 Mbit/s
  95th percentile per-packet one-way delay: 34.461 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 46.89 Mbit/s
  95th percentile per-packet one-way delay: 34.153 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 25.84 Mbit/s
  95th percentile per-packet one-way delay: 34.692 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 24.55 Mbit/s
  95th percentile per-packet one-way delay: 35.171 ms
  Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

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

- Flow 1 Ingress (mean 46.91 Mbit/s)
- Flow 1 Egress (mean 46.89 Mbit/s)
- Flow 2 Ingress (mean 25.83 Mbit/s)
- Flow 2 Egress (mean 25.84 Mbit/s)
- Flow 3 Ingress (mean 24.54 Mbit/s)
- Flow 3 Egress (mean 24.55 Mbit/s)

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

- Flow 1 (95th percentile 34.15 ms)
- Flow 2 (95th percentile 34.69 ms)
- Flow 3 (95th percentile 35.17 ms)
Run 4: Statistics of Sprout

Start at: 2018-02-02 23:21:11
End at: 2018-02-02 23:21:41
Local clock offset: 0.308 ms
Remote clock offset: 0.657 ms

# Below is generated by plot.py at 2018-02-03 05:05:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 19.223 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 19.368 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 18.795 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 19.514 ms
Loss rate: 0.10%
Run 4: Report of Sprout — Data Link

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

- **Flow 1 Ingress**: (mean 38.56 Mbps)
- **Flow 1 Egress**: (mean 38.54 Mbps)
- **Flow 2 Ingress**: (mean 40.61 Mbps)
- **Flow 2 Egress**: (mean 40.58 Mbps)
- **Flow 3 Ingress**: (mean 35.62 Mbps)
- **Flow 3 Egress**: (mean 35.53 Mbps)

![Graph 2: Packet One Way Delay (ms)](image2)

- **Flow 1**: (95th percentile 19.37 ms)
- **Flow 2**: (95th percentile 18.80 ms)
- **Flow 3**: (95th percentile 19.51 ms)
Run 5: Statistics of Sprout

Start at: 2018-02-02 23:41:38
End at: 2018-02-02 23:42:08
Local clock offset: 0.27 ms
Remote clock offset: -3.871 ms

# Below is generated by plot.py at 2018-02-03 05:05:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.77 Mbit/s
95th percentile per-packet one-way delay: 19.056 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 18.053 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 19.178 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 20.611 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

---

**Throughput (Mbit/s):**

- **Flow 1 Ingress (mean 28.74 Mbit/s)**
- **Flow 1 Egress (mean 28.73 Mbit/s)**
- **Flow 2 Ingress (mean 47.26 Mbit/s)**
- **Flow 2 Egress (mean 47.26 Mbit/s)**
- **Flow 3 Ingress (mean 23.24 Mbit/s)**
- **Flow 3 Egress (mean 23.20 Mbit/s)**

---

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

- **Flow 1 (95th percentile 18.05 ms)**
- **Flow 2 (95th percentile 19.18 ms)**
- **Flow 3 (95th percentile 20.61 ms)**
Run 6: Statistics of Sprout

Start at: 2018-02-03 00:01:59
End at: 2018-02-03 00:02:29
Local clock offset: 0.174 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-02-03 05:05:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 20.667 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 20.440 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 20.156 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 22.137 ms
Loss rate: 0.21%
Run 6: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 42.06 Mbit/s)
- Flow 1 egress (mean 42.02 Mbit/s)
- Flow 2 ingress (mean 31.89 Mbit/s)
- Flow 2 egress (mean 31.87 Mbit/s)
- Flow 3 ingress (mean 38.19 Mbit/s)
- Flow 3 egress (mean 30.16 Mbit/s)
Run 7: Statistics of Sprout

Start at: 2018-02-03 00:22:18
End at: 2018-02-03 00:22:48
Local clock offset: 0.177 ms
Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2018-02-03 05:05:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.95 Mbit/s
95th percentile per-packet one-way delay: 17.717 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 17.245 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 18.293 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.00 Mbit/s
95th percentile per-packet one-way delay: 16.559 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link

---

**Throughput (Mbit/s) vs. Time (s):**
- Flow 1 ingress (mean 32.58 Mbit/s)
- Flow 1 egress (mean 32.57 Mbit/s)
- Flow 2 ingress (mean 44.32 Mbit/s)
- Flow 2 egress (mean 44.29 Mbit/s)
- Flow 3 ingress (mean 15.00 Mbit/s)
- Flow 3 egress (mean 15.00 Mbit/s)

---

**Per-packet one-way delay (ms) vs. Time (s):**
- Flow 1 (95th percentile 17.25 ms)
- Flow 2 (95th percentile 18.29 ms)
- Flow 3 (95th percentile 16.56 ms)
Run 8: Statistics of Sprout

Start at: 2018-02-03 00:42:38
End at: 2018-02-03 00:43:08
Local clock offset: 0.222 ms
Remote clock offset: 1.64 ms

# Below is generated by plot.py at 2018-02-03 05:05:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 16.033 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 14.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 18.312 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 44.32 Mbit/s
95th percentile per-packet one-way delay: 16.725 ms
Loss rate: 0.22%
Run 8: Report of Sprout — Data Link

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

![Graph 2: Per-packet end-to-end delay (ms)](image2)
Run 9: Statistics of Sprout

Start at: 2018-02-03 01:03:07
End at: 2018-02-03 01:03:37
Local clock offset: 0.201 ms
Remote clock offset: 1.219 ms

# Below is generated by plot.py at 2018-02-03 05:05:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.91 Mbit/s
  95th percentile per-packet one-way delay: 20.442 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 43.03 Mbit/s
  95th percentile per-packet one-way delay: 19.431 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 38.36 Mbit/s
  95th percentile per-packet one-way delay: 20.071 ms
  Loss rate: 0.07%
-- Flow 3:
  Average throughput: 28.43 Mbit/s
  95th percentile per-packet one-way delay: 23.426 ms
  Loss rate: 0.23%
Run 10: Statistics of Sprout

Start at: 2018-02-03 01:23:34
End at: 2018-02-03 01:24:04
Local clock offset: 0.132 ms
Remote clock offset: 0.946 ms

# Below is generated by plot.py at 2018-02-03 05:05:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.51 Mbit/s
95th percentile per-packet one-way delay: 21.991 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 20.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 21.467 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 24.650 ms
Loss rate: 0.33%
Run 10: Report of Sprout — Data Link

![Graphs showing throughput and packet transmission delay for flows 1, 2, and 3 over time.]

Flow 1 ingress (mean 44.96 Mbit/s)  
Flow 1 egress (mean 44.96 Mbit/s)  
Flow 2 ingress (mean 36.88 Mbit/s)  
Flow 2 egress (mean 36.85 Mbit/s)  
Flow 3 ingress (mean 30.54 Mbit/s)  
Flow 3 egress (mean 30.49 Mbit/s)  

Flow 1 (95th percentile 20.07 ms)  
Flow 2 (95th percentile 21.47 ms)  
Flow 3 (95th percentile 24.65 ms)
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-02 22:10:02
End at: 2018-02-02 22:10:32
Local clock offset: 0.141 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-02-03 05:07:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.46 Mbit/s
  95th percentile per-packet one-way delay: 31.057 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 55.60 Mbit/s
  95th percentile per-packet one-way delay: 30.816 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 41.09 Mbit/s
  95th percentile per-packet one-way delay: 31.042 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 31.87 Mbit/s
  95th percentile per-packet one-way delay: 31.147 ms
  Loss rate: 0.29%
Run 1: Report of TaoVA-100x — Data Link

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

**Throughput (Mbps)**

- Flow 1 ingress (mean 55.59 Mbps)
- Flow 1 egress (mean 55.60 Mbps)
- Flow 2 ingress (mean 41.12 Mbps)
- Flow 2 egress (mean 41.09 Mbps)
- Flow 3 ingress (mean 31.88 Mbps)
- Flow 3 egress (mean 31.87 Mbps)

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

- Flow 1 (95th percentile 30.82 ms)
- Flow 2 (95th percentile 31.04 ms)
- Flow 3 (95th percentile 31.15 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-02 22:30:20
End at: 2018-02-02 22:30:50
Local clock offset: 0.238 ms
Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2018-02-03 05:07:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.13 Mbit/s
95th percentile per-packet one-way delay: 31.105 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.49 Mbit/s
95th percentile per-packet one-way delay: 31.114 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.07 Mbit/s
95th percentile per-packet one-way delay: 31.179 ms
Loss rate: 0.29%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-02 22:50:37
End at: 2018-02-02 22:51:07
Local clock offset: 0.258 ms
Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2018-02-03 05:07:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.22 Mbit/s
  95th percentile per-packet one-way delay: 31.081 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 57.68 Mbit/s
  95th percentile per-packet one-way delay: 30.954 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 36.01 Mbit/s
  95th percentile per-packet one-way delay: 31.075 ms
  Loss rate: 0.13%
-- Flow 3:
  Average throughput: 32.03 Mbit/s
  95th percentile per-packet one-way delay: 31.181 ms
  Loss rate: 0.42%
Run 3: Report of TaoVA-100x — Data Link

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

- **Throughput (Mbps)**:
  - Flow 1 ingress (mean 57.66 Mbps)
  - Flow 1 egress (mean 57.68 Mbps)
  - Flow 2 ingress (mean 36.04 Mbps)
  - Flow 2 egress (mean 36.01 Mbps)
  - Flow 3 ingress (mean 32.07 Mbps)
  - Flow 3 egress (mean 32.03 Mbps)

- **Per-packet delay (ms)**:
  - Flow 1 (95th percentile 30.95 ms)
  - Flow 2 (95th percentile 31.07 ms)
  - Flow 3 (95th percentile 31.18 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-02 23:10:59
End at: 2018-02-02 23:11:29
Local clock offset: 0.283 ms
Remote clock offset: -3.622 ms

# Below is generated by plot.py at 2018-02-03 05:07:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.98 Mbit/s
  95th percentile per-packet one-way delay: 35.209 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 57.21 Mbit/s
  95th percentile per-packet one-way delay: 35.067 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 37.88 Mbit/s
  95th percentile per-packet one-way delay: 35.223 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 31.98 Mbit/s
  95th percentile per-packet one-way delay: 35.279 ms
  Loss rate: 0.30%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-02 23:31:24
End at: 2018-02-02 23:31:54
Local clock offset: 0.275 ms
Remote clock offset: 0.782 ms

# Below is generated by plot.py at 2018-02-03 05:07:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.11 Mbit/s
  95th percentile per-packet one-way delay: 31.131 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 56.44 Mbit/s
  95th percentile per-packet one-way delay: 30.923 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 36.11 Mbit/s
  95th percentile per-packet one-way delay: 31.157 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 32.12 Mbit/s
  95th percentile per-packet one-way delay: 31.205 ms
  Loss rate: 0.29%
Run 5: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 56.47 Mbit/s)
- Flow 1 egress (mean 56.44 Mbit/s)
- Flow 2 ingress (mean 36.15 Mbit/s)
- Flow 2 egress (mean 36.11 Mbit/s)
- Flow 3 ingress (mean 32.14 Mbit/s)
- Flow 3 egress (mean 32.12 Mbit/s)

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

- Flow 1 (95th percentile 30.92 ms)
- Flow 2 (95th percentile 31.16 ms)
- Flow 3 (95th percentile 31.20 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-02-02 23:51:49
End at: 2018-02-02 23:52:19
Local clock offset: 0.183 ms
Remote clock offset: 1.08 ms

# Below is generated by plot.py at 2018-02-03 05:07:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.35 Mbit/s
  95th percentile per-packet one-way delay: 30.955 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 38.98 Mbit/s
  95th percentile per-packet one-way delay: 30.705 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 41.84 Mbit/s
  95th percentile per-packet one-way delay: 30.906 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 31.75 Mbit/s
  95th percentile per-packet one-way delay: 31.065 ms
  Loss rate: 0.29%
Run 6: Report of TaoVA-100x — Data Link

```

```

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

- **Flow 1 Ingress** (mean 39.01 Mbps)
- **Flow 1 Egress** (mean 38.98 Mbps)
- **Flow 2 Ingress** (mean 41.87 Mbps)
- **Flow 2 Egress** (mean 41.84 Mbps)
- **Flow 3 Ingress** (mean 31.78 Mbps)
- **Flow 3 Egress** (mean 31.75 Mbps)

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

- **Flow 1** (95th percentile 30.70 ms)
- **Flow 2** (95th percentile 30.91 ms)
- **Flow 3** (95th percentile 31.07 ms)

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Run 7: Statistics of TaoVA-100x

Start at: 2018-02-03 00:12:07
End at: 2018-02-03 00:12:37
Local clock offset: 0.143 ms
Remote clock offset: 1.275 ms

# Below is generated by plot.py at 2018-02-03 05:07:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 75.14 Mbit/s
  95th percentile per-packet one-way delay: 31.055 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 39.88 Mbit/s
  95th percentile per-packet one-way delay: 30.747 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 37.31 Mbit/s
  95th percentile per-packet one-way delay: 31.051 ms
  Loss rate: 0.19%
-- Flow 3:
  Average throughput: 31.52 Mbit/s
  95th percentile per-packet one-way delay: 31.177 ms
  Loss rate: 0.40%
Run 7: Report of TaoVA-100x — Data Link

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

Key:
- Flow 1 ingress (mean 39.89 Mbit/s)
- Flow 1 egress (mean 39.88 Mbit/s)
- Flow 2 ingress (mean 37.37 Mbit/s)
- Flow 2 egress (mean 37.31 Mbit/s)
- Flow 3 ingress (mean 31.60 Mbit/s)
- Flow 3 egress (mean 31.52 Mbit/s)

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

Key:
- Flow 1 (95th percentile 30.75 ms)
- Flow 2 (95th percentile 31.05 ms)
- Flow 3 (95th percentile 31.18 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-03 00:32:24
End at: 2018-02-03 00:32:54
Local clock offset: 0.192 ms
Remote clock offset: 1.605 ms

# Below is generated by plot.py at 2018-02-03 05:08:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 31.105 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 57.07 Mbit/s
95th percentile per-packet one-way delay: 29.921 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.10 Mbit/s
95th percentile per-packet one-way delay: 31.164 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 31.232 ms
Loss rate: 0.29%
Run 8: Report of TaoVA-100x — Data Link

![Graph showing data link performance metrics over time.](image1)

![Graph showing per-packet one-way delay metrics.](image2)
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-03 00:52:54
End at: 2018-02-03 00:53:24
Local clock offset: 0.202 ms
Remote clock offset: 1.402 ms

# Below is generated by plot.py at 2018-02-03 05:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.85 Mbit/s
95th percentile per-packet one-way delay: 31.066 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.21 Mbit/s
95th percentile per-packet one-way delay: 30.692 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 36.47 Mbit/s
95th percentile per-packet one-way delay: 31.063 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 31.201 ms
Loss rate: 0.30%
Run 9: Report of TaoVA-100x — Data Link

**Throughput**

![Throughput Graph](image1)

**Latency**

![Latency Graph](image2)
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-03 01:13:19
End at: 2018-02-03 01:13:49
Local clock offset: 0.165 ms
Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 31.230 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 30.172 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 31.253 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 31.320 ms
Loss rate: 0.29%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-02-02 22:24:41
End at: 2018-02-02 22:25:11
Local clock offset: 0.137 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.47 Mbit/s
95th percentile per-packet one-way delay: 4.701 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 25.09 Mbit/s
95th percentile per-packet one-way delay: 11.275 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 4.032 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 51.54 Mbit/s
95th percentile per-packet one-way delay: 4.167 ms
Loss rate: 0.04%
Run 1: Report of TCP Vegas — Data Link

![Graph showing network performance metrics for different flows. The upper graph displays throughput in Mbps over time, while the lower graph shows per-packet one-way delay in ms.](image-url)
Run 2: Statistics of TCP Vegas

Start at: 2018-02-02 22:44:59
End at: 2018-02-02 22:45:29
Local clock offset: 0.179 ms
Remote clock offset: -5.738 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 40.06 Mbit/s
  95th percentile per-packet one-way delay: 14.748 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 10.62 Mbit/s
  95th percentile per-packet one-way delay: 9.871 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 29.52 Mbit/s
  95th percentile per-packet one-way delay: 9.822 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 29.51 Mbit/s
  95th percentile per-packet one-way delay: 18.813 ms
  Loss rate: 0.02%
Run 2: Report of TCP Vegas — Data Link

![Graph showing TCP Vegas data link performance metrics.](image-url)

**Throughput (Mbps)**
- Flow 1 ingress (mean 10.63 Mbps)
- Flow 1 egress (mean 10.62 Mbps)
- Flow 2 ingress (mean 29.52 Mbps)
- Flow 2 egress (mean 29.52 Mbps)
- Flow 3 ingress (mean 29.48 Mbps)
- Flow 3 egress (mean 29.51 Mbps)

**Per-packet one-way delay (ms)**
- Flow 1 (95th percentile 9.87 ms)
- Flow 2 (95th percentile 9.82 ms)
- Flow 3 (95th percentile 18.81 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-02-02 23:05:16
End at: 2018-02-02 23:05:46
Local clock offset: 0.217 ms
Remote clock offset: -19.926 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 29.327 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 28.518 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 31.689 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 24.335 ms
Loss rate: 0.09%
Run 3: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 49.08 Mbit/s)
- Flow 1 egress (mean 49.08 Mbit/s)
- Flow 2 ingress (mean 42.25 Mbit/s)
- Flow 2 egress (mean 42.26 Mbit/s)
- Flow 3 ingress (mean 48.71 Mbit/s)
- Flow 3 egress (mean 48.69 Mbit/s)

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

- Flow 1 (95th percentile 28.52 ms)
- Flow 2 (95th percentile 31.69 ms)
- Flow 3 (95th percentile 24.34 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-02-02 23:25:40  
End at: 2018-02-02 23:26:10  
Local clock offset: 0.281 ms  
Remote clock offset: 0.753 ms

# Below is generated by plot.py at 2018-02-03 05:09:37  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.51 Mbit/s
  95th percentile per-packet one-way delay: 9.839 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 81.09 Mbit/s
  95th percentile per-packet one-way delay: 7.794 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 8.10 Mbit/s
  95th percentile per-packet one-way delay: 4.988 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 30.21 Mbit/s
  95th percentile per-packet one-way delay: 16.893 ms
  Loss rate: 0.01%
Run 4: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbit/s)]

- Flow 1 ingress (mean 81.10 Mbit/s)
- Flow 1 egress (mean 81.09 Mbit/s)
- Flow 2 ingress (mean 8.11 Mbit/s)
- Flow 2 egress (mean 8.10 Mbit/s)
- Flow 3 ingress (mean 30.21 Mbit/s)
- Flow 3 egress (mean 30.21 Mbit/s)

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

- Flow 1 (95th percentile 7.79 ms)
- Flow 2 (95th percentile 4.99 ms)
- Flow 3 (95th percentile 16.89 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-02-02 23:46:07
End at: 2018-02-02 23:46:37
Local clock offset: 0.22 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 16.076 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 13.672 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 6.406 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 16.503 ms
Loss rate: 0.01%
Run 5: Report of TCP Vegas — Data Link

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

Throughput (Mbit/s) vs. Time (s)

- Flow 1 ingress (mean 48.36 Mbit/s)
- Flow 1 egress (mean 48.36 Mbit/s)
- Flow 2 ingress (mean 41.09 Mbit/s)
- Flow 2 egress (mean 41.09 Mbit/s)
- Flow 3 ingress (mean 64.18 Mbit/s)
- Flow 3 egress (mean 64.32 Mbit/s)

Per-packet one-way delay (ms) vs. Time (s)

- Flow 1 (95th percentile 13.67 ms)
- Flow 2 (95th percentile 6.41 ms)
- Flow 3 (95th percentile 16.50 ms)
Run 6: Statistics of TCP Vegas

Start at: 2018-02-03 00:06:26
End at: 2018-02-03 00:06:56
Local clock offset: 0.216 ms
Remote clock offset: 1.093 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 69.28 Mbit/s
  95th percentile per-packet one-way delay: 6.331 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 12.67 Mbit/s
  95th percentile per-packet one-way delay: 14.213 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 79.14 Mbit/s
  95th percentile per-packet one-way delay: 5.449 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 11.81 Mbit/s
  95th percentile per-packet one-way delay: 4.361 ms
  Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-02-03 00:26:46
End at: 2018-02-03 00:27:16
Local clock offset: 0.204 ms
Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2018-02-03 05:09:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 67.38 Mbit/s
  95th percentile per-packet one-way delay: 7.127 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 11.20 Mbit/s
  95th percentile per-packet one-way delay: 10.210 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 57.32 Mbit/s
  95th percentile per-packet one-way delay: 6.023 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 54.41 Mbit/s
  95th percentile per-packet one-way delay: 4.309 ms
  Loss rate: 0.05%
Run 7: Report of TCP Vegas — Data Link

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

- **Throughput** (Mbps):
  - Flow 1 ingress: mean 11.19 Mbps
  - Flow 1 egress: mean 11.20 Mbps
  - Flow 2 ingress: mean 57.32 Mbps
  - Flow 2 egress: mean 57.32 Mbps
  - Flow 3 ingress: mean 54.41 Mbps
  - Flow 3 egress: mean 54.41 Mbps

- **Packet One-Way Delay** (ms):
  - Flow 1 (95th percentile 10.21 ms)
  - Flow 2 (95th percentile 6.02 ms)
  - Flow 3 (95th percentile 4.31 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-02-03 00:47:13
End at: 2018-02-03 00:47:43
Local clock offset: 0.208 ms
Remote clock offset: -18.927 ms

# Below is generated by plot.py at 2018-02-03 05:09:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 43.922 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.18 Mbit/s
95th percentile per-packet one-way delay: 40.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 45.902 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 27.693 ms
Loss rate: 0.13%
Run 8: Report of TCP Vegas — Data Link

[Graph showing throughput and packet loss over time]
Run 9: Statistics of TCP Vegas

Start at: 2018-02-03 01:07:36
End at: 2018-02-03 01:08:06
Local clock offset: 0.184 ms
Remote clock offset: -19.42 ms

# Below is generated by plot.py at 2018-02-03 05:10:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 26.509 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.35 Mbit/s
95th percentile per-packet one-way delay: 33.525 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 25.099 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 25.206 ms
Loss rate: 0.03%
Run 9: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 45.35 Mbit/s)
- Flow 1 egress (mean 45.35 Mbit/s)
- Flow 2 ingress (mean 45.97 Mbit/s)
- Flow 2 egress (mean 45.96 Mbit/s)
- Flow 3 ingress (mean 64.28 Mbit/s)
- Flow 3 egress (mean 64.29 Mbit/s)
Run 10: Statistics of TCP Vegas

Start at: 2018-02-03 01:28:04
End at: 2018-02-03 01:28:34
Local clock offset: 0.172 ms
Remote clock offset: -19.5 ms

# Below is generated by plot.py at 2018-02-03 05:10:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.17 Mbit/s
95th percentile per-packet one-way delay: 24.296 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 21.54 Mbit/s
95th percentile per-packet one-way delay: 24.547 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 24.233 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 45.80 Mbit/s
95th percentile per-packet one-way delay: 24.321 ms
Loss rate: 0.05%
Run 1: Statistics of Verus

End at: 2018-02-02 22:22:58
Local clock offset: 0.199 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2018-02-03 05:10:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.73 Mbit/s
  95th percentile per-packet one-way delay: 36.021 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 52.77 Mbit/s
  95th percentile per-packet one-way delay: 34.461 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 35.63 Mbit/s
  95th percentile per-packet one-way delay: 36.535 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 27.96 Mbit/s
  95th percentile per-packet one-way delay: 36.626 ms
  Loss rate: 0.56%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-02-02 22:42:45
End at: 2018-02-02 22:43:15
Local clock offset: 0.265 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-02-03 05:10:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.93 Mbit/s
  95th percentile per-packet one-way delay: 34.717 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 57.21 Mbit/s
  95th percentile per-packet one-way delay: 33.028 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 28.37 Mbit/s
  95th percentile per-packet one-way delay: 35.496 ms
  Loss rate: 0.20%
-- Flow 3:
  Average throughput: 35.89 Mbit/s
  95th percentile per-packet one-way delay: 36.250 ms
  Loss rate: 0.31%
Run 2: Report of Verus — Data Link

![Graph of Throughput (Mb/s) over time for different flows.](image1)

- **Flow 1 ingress (mean 57.24 Mb/s)**
- **Flow 1 egress (mean 57.21 Mb/s)**
- **Flow 2 ingress (mean 28.40 Mb/s)**
- **Flow 2 egress (mean 28.37 Mb/s)**
- **Flow 3 ingress (mean 35.85 Mb/s)**
- **Flow 3 egress (mean 35.89 Mb/s)**

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

- **Flow 1 (95th percentile 33.03 ms)**
- **Flow 2 (95th percentile 35.50 ms)**
- **Flow 3 (95th percentile 36.25 ms)**
Run 3: Statistics of Verus

Start at: 2018-02-02 23:03:03
End at: 2018-02-02 23:03:33
Local clock offset: 0.293 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2018-02-03 05:10:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 35.259 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 33.985 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 35.775 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 36.565 ms
Loss rate: 0.09%
Run 3: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 51.82 Mbit/s)**
- **Flow 1 egress (mean 51.81 Mbit/s)**
- **Flow 2 ingress (mean 34.70 Mbit/s)**
- **Flow 2 egress (mean 34.66 Mbit/s)**
- **Flow 3 ingress (mean 24.63 Mbit/s)**
- **Flow 3 egress (mean 24.71 Mbit/s)**

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

- **Flow 1 (95th percentile 33.98 ms)**
- **Flow 2 (95th percentile 35.77 ms)**
- **Flow 3 (95th percentile 36.56 ms)**

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Run 4: Statistics of Verus

Start at: 2018-02-02 23:23:26
End at: 2018-02-02 23:23:56
Local clock offset: 0.282 ms
Remote clock offset: 0.632 ms

# Below is generated by plot.py at 2018-02-03 05:10:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.33 Mbit/s
95th percentile per-packet one-way delay: 36.624 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 55.09 Mbit/s
95th percentile per-packet one-way delay: 35.029 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 35.08 Mbit/s
95th percentile per-packet one-way delay: 36.684 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 32.76 Mbit/s
95th percentile per-packet one-way delay: 36.767 ms
Loss rate: 0.44%
Run 5: Statistics of Verus

Start at: 2018-02-02 23:43:53
End at: 2018-02-02 23:44:23
Local clock offset: 0.266 ms
Remote clock offset: 0.894 ms

# Below is generated by plot.py at 2018-02-03 05:10:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.92 Mbit/s
95th percentile per-packet one-way delay: 36.240 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 34.590 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 36.690 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 36.704 ms
Loss rate: 0.32%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

Start at: 2018-02-03 00:04:12
End at: 2018-02-03 00:04:42
Local clock offset: 0.236 ms
Remote clock offset: 1.143 ms

# Below is generated by plot.py at 2018-02-03 05:11:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 36.009 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.06 Mbit/s
95th percentile per-packet one-way delay: 34.939 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 45.14 Mbit/s
95th percentile per-packet one-way delay: 35.728 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 38.347 ms
Loss rate: 0.35%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-02-03 00:24:32
End at: 2018-02-03 00:25:02
Local clock offset: 0.118 ms
Remote clock offset: -19.083 ms

# Below is generated by plot.py at 2018-02-03 05:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 54.855 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 52.036 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 55.678 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 57.151 ms
Loss rate: 0.22%
Run 7: Report of Verus — Data Link

![Graph showing network performance over time]

- **Throughput (Mbit/s)**
- **Time (s)**
- **Flow 1 ingress (mean 66.30 Mbit/s)**
- **Flow 1 egress (mean 66.28 Mbit/s)**
- **Flow 2 ingress (mean 29.67 Mbit/s)**
- **Flow 2 egress (mean 29.64 Mbit/s)**
- **Flow 3 ingress (mean 32.14 Mbit/s)**
- **Flow 3 egress (mean 32.08 Mbit/s)**

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

- **Per packet one-way delay (ms)**
- **Time (s)**
- **Flow 1 (95th percentile 52.04 ms)**
- **Flow 2 (95th percentile 55.68 ms)**
- **Flow 3 (95th percentile 57.15 ms)**
Run 8: Statistics of Verus

Start at: 2018-02-03 00:44:54
End at: 2018-02-03 00:45:24
Local clock offset: 0.143 ms
Remote clock offset: -2.433 ms

# Below is generated by plot.py at 2018-02-03 05:11:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 39.119 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 65.22 Mbit/s
95th percentile per-packet one-way delay: 37.662 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 39.729 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 40.502 ms
Loss rate: 0.36%
Run 8: Report of Verus — Data Link

![Graph of throughput and packet one-way delay](image-url)
Run 9: Statistics of Verus

Start at: 2018-02-03 01:05:23
End at: 2018-02-03 01:05:53
Local clock offset: 0.19 ms
Remote clock offset: -5.821 ms

# Below is generated by plot.py at 2018-02-03 05:11:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.33 Mbit/s
  95th percentile per-packet one-way delay: 43.071 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 52.18 Mbit/s
  95th percentile per-packet one-way delay: 41.599 ms
  Loss rate: 0.17%
-- Flow 2:
  Average throughput: 34.99 Mbit/s
  95th percentile per-packet one-way delay: 43.358 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 29.86 Mbit/s
  95th percentile per-packet one-way delay: 43.687 ms
  Loss rate: 0.47%
Run 9: Report of Verus — Data Link

[Graph showing throughput over time for different flows, with labels for each flow's ingress and egress throughput.

Graph showing per packet one way delay over time for different flows, with labels for each flow's 95th percentile delay.]
Run 10: Statistics of Verus

Start at: 2018-02-03 01:25:50
End at: 2018-02-03 01:26:20
Local clock offset: 0.144 ms
Remote clock offset: 0.917 ms

# Below is generated by plot.py at 2018-02-03 05:11:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 89.96 Mbit/s
  95th percentile per-packet one-way delay: 35.210 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 53.03 Mbit/s
  95th percentile per-packet one-way delay: 34.398 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 38.32 Mbit/s
  95th percentile per-packet one-way delay: 35.088 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 34.48 Mbit/s
  95th percentile per-packet one-way delay: 36.415 ms
  Loss rate: 0.44%
Run 10: Report of Verus — Data Link

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

- Flow 1 ingress (mean 53.02 Mb/s)
- Flow 1 egress (mean 53.03 Mb/s)
- Flow 2 ingress (mean 38.36 Mb/s)
- Flow 2 egress (mean 38.32 Mb/s)
- Flow 3 ingress (mean 34.53 Mb/s)
- Flow 3 egress (mean 34.48 Mb/s)

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

- Flow 1 (95th percentile 34.40 ms)
- Flow 2 (95th percentile 35.09 ms)
- Flow 3 (95th percentile 36.41 ms)
Run 1: Statistics of Copa

Start at: 2018-02-02 22:21:20
End at: 2018-02-02 22:21:50
Local clock offset: 0.226 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-02-03 05:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.11 Mbit/s
95th percentile per-packet one-way delay: 2.499 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 2.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 0.03%
Run 1: Report of Copa — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 3.10 Mbit/s)
Flow 1 egress (mean 3.10 Mbit/s)
Flow 2 ingress (mean 56.42 Mbit/s)
Flow 2 egress (mean 56.41 Mbit/s)
Flow 3 ingress (mean 13.37 Mbit/s)
Flow 3 egress (mean 13.37 Mbit/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 2.74 ms)
Flow 2 (95th percentile 2.47 ms)
Flow 3 (95th percentile 2.54 ms)
Run 2: Statistics of Copa

Start at: 2018-02-02 22:41:38
End at: 2018-02-02 22:42:08
Local clock offset: 0.26 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-02-03 05:11:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 38.74 Mbit/s
  95th percentile per-packet one-way delay: 2.953 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 17.07 Mbit/s
  95th percentile per-packet one-way delay: 2.903 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 10.02 Mbit/s
  95th percentile per-packet one-way delay: 2.908 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 45.27 Mbit/s
  95th percentile per-packet one-way delay: 3.025 ms
  Loss rate: 0.05%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Start at: 2018-02-02 23:01:53
End at: 2018-02-02 23:02:23
Local clock offset: 0.325 ms
Remote clock offset: -11.459 ms

# Below is generated by plot.py at 2018-02-03 05:13:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.63 Mbit/s
95th percentile per-packet one-way delay: 14.579 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 48.03 Mbit/s
95th percentile per-packet one-way delay: 14.453 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 14.634 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 14.743 ms
Loss rate: 0.05%
Run 3: Report of Copa — Data Link

Throughput (Mbit/s) vs Time (s)

- Flow 1 Ingress (mean 48.06 Mbit/s)
- Flow 1 Egress (mean 48.03 Mbit/s)
- Flow 2 Ingress (mean 29.52 Mbit/s)
- Flow 2 Egress (mean 29.51 Mbit/s)
- Flow 3 Ingress (mean 33.06 Mbit/s)
- Flow 3 Egress (mean 33.08 Mbit/s)

Per-packet one-way delay (ms)

- Flow 1 (95th percentile 14.45 ms)
- Flow 2 (95th percentile 14.63 ms)
- Flow 3 (95th percentile 14.74 ms)
Run 4: Statistics of Copa

Start at: 2018-02-02 23:22:17
End at: 2018-02-02 23:22:47
Local clock offset: 0.26 ms
Remote clock offset: -3.928 ms

# Below is generated by plot.py at 2018-02-03 05:13:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 7.099 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 7.074 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 7.124 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 7.630 ms
Loss rate: 0.02%
Run 4: Report of Copa — Data Link

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

- Flow 1 ingress (mean 51.98 Mbit/s)
- Flow 1 egress (mean 51.98 Mbit/s)
- Flow 2 ingress (mean 9.94 Mbit/s)
- Flow 2 egress (mean 9.94 Mbit/s)
- Flow 3 ingress (mean 12.57 Mbit/s)
- Flow 3 egress (mean 12.57 Mbit/s)

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

- Flow 1 (95th percentile 7.07 ms)
- Flow 2 (95th percentile 7.12 ms)
- Flow 3 (95th percentile 7.63 ms)
Run 5: Statistics of Copa

Start at: 2018-02-02 23:42:44
End at: 2018-02-02 23:43:14
Local clock offset: 0.281 ms
Remote clock offset: 0.939 ms

# Below is generated by plot.py at 2018-02-03 05:13:08
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 66.00 Mbit/s
  95th percentile per-packet one-way delay: 2.610 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 34.83 Mbit/s
  95th percentile per-packet one-way delay: 2.561 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 44.74 Mbit/s
  95th percentile per-packet one-way delay: 2.643 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 4.17 Mbit/s
  95th percentile per-packet one-way delay: 3.280 ms
  Loss rate: 0.00%
Run 5: Report of Copa — Data Link

[Graph showing network performance metrics over time, including throughput and packet round-trip time.]
Run 6: Statistics of Copa

Start at: 2018-02-03 00:03:05
End at: 2018-02-03 00:03:35
Local clock offset: 0.254 ms
Remote clock offset: -4.07 ms

# Below is generated by plot.py at 2018-02-03 05:13:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 7.964 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: 7.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 7.993 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 49.28 Mbit/s
95th percentile per-packet one-way delay: 8.043 ms
Loss rate: 0.06%
Run 6: Report of Copa — Data Link

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

![Graph 2: Per-packet one-way delay (ms) over Time (s)]
Run 7: Statistics of Copa

Start at: 2018-02-03 00:23:24
End at: 2018-02-03 00:23:54
Local clock offset: 0.194 ms
Remote clock offset: 1.501 ms

# Below is generated by plot.py at 2018-02-03 05:13:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.93 Mbit/s
95th percentile per-packet one-way delay: 2.681 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 2.531 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 2.621 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 2.876 ms
Loss rate: 0.05%
Run 7: Report of Copa — Data Link

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

- Flow 1 ingress (mean 3.25 Mbit/s)
- Flow 1 egress (mean 3.25 Mbit/s)
- Flow 2 ingress (mean 44.69 Mbit/s)
- Flow 2 egress (mean 44.69 Mbit/s)
- Flow 3 ingress (mean 41.96 Mbit/s)
- Flow 3 egress (mean 41.97 Mbit/s)

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

- Flow 1 (95th percentile 2.53 ms)
- Flow 2 (95th percentile 2.62 ms)
- Flow 3 (95th percentile 2.88 ms)
Run 8: Statistics of Copa

Start at: 2018-02-03 00:43:44
End at: 2018-02-03 00:44:14
Local clock offset: 0.198 ms
Remote clock offset: -18.87 ms

# Below is generated by plot.py at 2018-02-03 05:13:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 23.137 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 23.091 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 23.176 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 23.715 ms
Loss rate: 0.02%
Run 8: Report of Copa — Data Link

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

- **Throughput**:
  - Flow 1 ingress (mean 47.28 Mbit/s)
  - Flow 1 egress (mean 47.29 Mbit/s)
  - Flow 2 ingress (mean 47.00 Mbit/s)
  - Flow 2 egress (mean 47.00 Mbit/s)
  - Flow 3 ingress (mean 6.07 Mbit/s)
  - Flow 3 egress (mean 6.07 Mbit/s)

- **Per-packet one-way delay**:
  - Flow 1 (95th percentile 23.09 ms)
  - Flow 2 (95th percentile 23.18 ms)
  - Flow 3 (95th percentile 23.71 ms)
Run 9: Statistics of Copa

Start at: 2018-02-03 01:04:13
End at: 2018-02-03 01:04:43
Local clock offset: 0.138 ms
Remote clock offset: 1.2 ms

# Below is generated by plot.py at 2018-02-03 05:13:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 68.35 Mbit/s
  95th percentile per-packet one-way delay: 2.896 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 28.47 Mbit/s
  95th percentile per-packet one-way delay: 2.762 ms
  Loss rate: 0.02%
-- Flow 2:
  Average throughput: 43.09 Mbit/s
  95th percentile per-packet one-way delay: 2.876 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 33.83 Mbit/s
  95th percentile per-packet one-way delay: 3.194 ms
  Loss rate: 0.05%
Run 9: Report of Copa — Data Link

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

- Flow 1 ingress (mean 28.47 Mbps)
- Flow 1 egress (mean 28.47 Mbps)
- Flow 2 ingress (mean 43.09 Mbps)
- Flow 2 egress (mean 43.09 Mbps)
- Flow 3 ingress (mean 33.83 Mbps)
- Flow 3 egress (mean 33.83 Mbps)

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

- Flow 1 (95th percentile 2.76 ms)
- Flow 2 (95th percentile 2.88 ms)
- Flow 3 (95th percentile 3.19 ms)
Run 10: Statistics of Copa

Start at: 2018-02-03 01:24:40
End at: 2018-02-03 01:25:10
Local clock offset: 0.138 ms
Remote clock offset: 0.942 ms

# Below is generated by plot.py at 2018-02-03 05:13:52
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 2.930 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 46.09 Mbit/s
95th percentile per-packet one-way delay: 2.778 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.41 Mbit/s
95th percentile per-packet one-way delay: 2.991 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 3.285 ms
Loss rate: 0.06%
Run 10: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 46.09 Mbit/s)**
- **Flow 1 egress (mean 46.09 Mbit/s)**
- **Flow 2 ingress (mean 41.40 Mbit/s)**
- **Flow 2 egress (mean 41.41 Mbit/s)**
- **Flow 3 ingress (mean 16.70 Mbit/s)**
- **Flow 3 egress (mean 16.70 Mbit/s)**
Run 1: Statistics of FillP

Start at: 2018-02-02 22:16:54
End at: 2018-02-02 22:17:24
Local clock offset: 0.21 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-02-03 05:14:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 24.968 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 24.148 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 25.112 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 25.861 ms
Loss rate: 4.74%
Run 1: Report of FillP — Data Link

Graph 1: Throughput (Mb/s) vs Time (s)

- Flow 1 ingress (mean 55.79 Mb/s)
- Flow 1 egress (mean 55.79 Mb/s)
- Flow 2 ingress (mean 39.60 Mb/s)
- Flow 2 egress (mean 39.50 Mb/s)
- Flow 3 ingress (mean 31.41 Mb/s)
- Flow 3 egress (mean 31.05 Mb/s)

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

- Flow 1 (95th percentile 24.15 ms)
- Flow 2 (95th percentile 25.11 ms)
- Flow 3 (95th percentile 25.86 ms)
Run 2: Statistics of FillP

Start at: 2018-02-02 22:37:11
End at: 2018-02-02 22:37:41
Local clock offset: 0.261 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-02-03 05:15:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.27 Mbit/s
  95th percentile per-packet one-way delay: 25.015 ms
  Loss rate: 1.68%
-- Flow 1:
  Average throughput: 55.88 Mbit/s
  95th percentile per-packet one-way delay: 24.176 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 39.21 Mbit/s
  95th percentile per-packet one-way delay: 25.176 ms
  Loss rate: 2.70%
-- Flow 3:
  Average throughput: 31.17 Mbit/s
  95th percentile per-packet one-way delay: 25.928 ms
  Loss rate: 7.05%
Run 2: Report of FillP — Data Link

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

*Legend for Graph 1:*
- Flow 1 Ingress (mean 55.87 Mbit/s)
- Flow 1 Egress (mean 55.88 Mbit/s)
- Flow 2 Ingress (mean 39.31 Mbit/s)
- Flow 2 Egress (mean 39.21 Mbit/s)
- Flow 3 Ingress (mean 31.89 Mbit/s)
- Flow 3 Egress (mean 31.17 Mbit/s)

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

*Legend for Graph 2:*
- Flow 1 (95th percentile 24.18 ms)
- Flow 2 (95th percentile 25.18 ms)
- Flow 3 (95th percentile 25.93 ms)
Run 3: Statistics of FillP

Start at: 2018-02-02 22:57:27
End at: 2018-02-02 22:57:57
Local clock offset: 0.282 ms
Remote clock offset: -20.274 ms

# Below is generated by plot.py at 2018-02-03 05:15:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 45.399 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 44.468 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 45.643 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 46.326 ms
Loss rate: 0.39%
Run 3: Report of FillP — Data Link

![Graph of Throughput vs Time](image1)

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

- **Flow 1 ingress (mean 56.43 Mbit/s)**
- **Flow 1 egress (mean 56.43 Mbit/s)**
- **Flow 2 ingress (mean 38.46 Mbit/s)**
- **Flow 2 egress (mean 38.46 Mbit/s)**
- **Flow 3 ingress (mean 30.89 Mbit/s)**
- **Flow 3 egress (mean 30.83 Mbit/s)**
Run 4: Statistics of FillP

Start at: 2018-02-02 23:17:51
End at: 2018-02-02 23:18:21
Local clock offset: 0.234 ms
Remote clock offset: -19.954 ms

# Below is generated by plot.py at 2018-02-03 05:15:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 45.552 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 44.712 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 39.03 Mbit/s
95th percentile per-packet one-way delay: 45.720 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 46.435 ms
Loss rate: 5.56%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2018-02-02 23:38:17
End at: 2018-02-02 23:38:47
Local clock offset: 0.263 ms
Remote clock offset: 0.885 ms

# Below is generated by plot.py at 2018-02-03 05:15:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 24.879 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 24.058 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 39.86 Mbit/s
95th percentile per-packet one-way delay: 24.998 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 25.801 ms
Loss rate: 5.89%
Run 5: Report of FillP — Data Link

![Graph depicting network performance metrics over time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 55.73 Mbps)
  - Flow 1 egress (mean 55.74 Mbps)
  - Flow 2 ingress (mean 39.86 Mbps)
  - Flow 2 egress (mean 39.86 Mbps)
  - Flow 3 ingress (mean 31.36 Mbps)
  - Flow 3 egress (mean 30.75 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 24.06 ms)
  - Flow 2 (95th percentile 25.00 ms)
  - Flow 3 (95th percentile 25.80 ms)
Run 6: Statistics of FillP

Start at: 2018-02-02 23:58:37
End at: 2018-02-02 23:59:07
Local clock offset: 0.186 ms
Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2018-02-03 05:16:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 24.907 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 24.090 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 39.84 Mbit/s
95th percentile per-packet one-way delay: 25.103 ms
Loss rate: 3.21%
-- Flow 3:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 25.846 ms
Loss rate: 6.64%
Run 6: Report of FillP — Data Link

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

- Flow 1 ingress (mean 55.63 Mbps)
- Flow 1 egress (mean 55.63 Mbps)
- Flow 2 ingress (mean 40.07 Mbps)
- Flow 2 egress (mean 39.84 Mbps)
- Flow 3 ingress (mean 31.34 Mbps)
- Flow 3 egress (mean 30.06 Mbps)

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

- Flow 1 (95th percentile 24.09 ms)
- Flow 2 (95th percentile 25.10 ms)
- Flow 3 (95th percentile 25.85 ms)
Run 7: Statistics of FillP

Start at: 2018-02-03 00:18:56
End at: 2018-02-03 00:19:26
Local clock offset: 0.194 ms
Remote clock offset: 1.322 ms

# Below is generated by plot.py at 2018-02-03 05:16:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.30 Mbit/s
  95th percentile per-packet one-way delay: 25.097 ms
  Loss rate: 3.53%
-- Flow 1:
  Average throughput: 56.17 Mbit/s
  95th percentile per-packet one-way delay: 24.218 ms
  Loss rate: 0.14%
-- Flow 2:
  Average throughput: 38.79 Mbit/s
  95th percentile per-packet one-way delay: 25.317 ms
  Loss rate: 5.57%
-- Flow 3:
  Average throughput: 31.33 Mbit/s
  95th percentile per-packet one-way delay: 25.957 ms
  Loss rate: 14.71%
Run 7: Report of FillP — Data Link

![Graph showing data link throughput and per packet end-to-end delay](image)

- **Throughput (Mb/s):**
  - Flow 1 Ingress (mean 56.16 Mb/s)
  - Flow 1 Egress (mean 56.17 Mb/s)
  - Flow 2 Ingress (mean 38.99 Mb/s)
  - Flow 2 Egress (mean 38.79 Mb/s)
  - Flow 3 Ingress (mean 33.17 Mb/s)
  - Flow 3 Egress (mean 31.33 Mb/s)

- **Per Packet End-to-End Delay (ms):**
  - Flow 1 (95th percentile 24.22 ms)
  - Flow 2 (95th percentile 25.32 ms)
  - Flow 3 (95th percentile 25.96 ms)
Run 8: Statistics of FillP

Start at: 2018-02-03 00:39:17
End at: 2018-02-03 00:39:47
Local clock offset: 0.185 ms
Remote clock offset: 1.72 ms

# Below is generated by plot.py at 2018-02-03 05:16:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.26 Mbit/s
  95th percentile per-packet one-way delay: 24.965 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 55.92 Mbit/s
  95th percentile per-packet one-way delay: 24.082 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 39.46 Mbit/s
  95th percentile per-packet one-way delay: 25.144 ms
  Loss rate: 1.22%
-- Flow 3:
  Average throughput: 30.58 Mbit/s
  95th percentile per-packet one-way delay: 25.891 ms
  Loss rate: 1.61%
Run 8: Report of FillP — Data Link

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

![Graph 2: Per-packet round-trip time vs Time](image2)

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Run 9: Statistics of FillP

Start at: 2018-02-03 00:59:47
End at: 2018-02-03 01:00:17
Local clock offset: 0.231 ms
Remote clock offset: 1.265 ms

# Below is generated by plot.py at 2018-02-03 05:17:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.34 Mbit/s
95th percentile per-packet one-way delay: 25.068 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 24.328 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 39.77 Mbit/s
95th percentile per-packet one-way delay: 25.225 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 25.905 ms
Loss rate: 1.04%
Run 10: Statistics of FillP

Start at: 2018-02-03 01:20:14
End at: 2018-02-03 01:20:44
Local clock offset: 0.111 ms
Remote clock offset: 1.033 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.28 Mbit/s
  95th percentile per-packet one-way delay: 24.911 ms
  Loss rate: 1.69%
-- Flow 1:
  Average throughput: 55.58 Mbit/s
  95th percentile per-packet one-way delay: 24.183 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 39.44 Mbit/s
  95th percentile per-packet one-way delay: 25.124 ms
  Loss rate: 2.70%
-- Flow 3:
  Average throughput: 31.68 Mbit/s
  95th percentile per-packet one-way delay: 25.729 ms
  Loss rate: 6.99%
Run 10: Report of FillP — Data Link

Throughput (Mbit/s) vs Time (s)
- Flow 1 ingress (mean 55.55 Mbit/s)
- Flow 1 egress (mean 55.58 Mbit/s)
- Flow 2 ingress (mean 39.35 Mbit/s)
- Flow 2 egress (mean 39.44 Mbit/s)
- Flow 3 ingress (mean 32.39 Mbit/s)
- Flow 3 egress (mean 31.68 Mbit/s)

Per-packet one-way delay (ms) vs Time (s)
- Flow 1 (95th percentile 24.18 ms)
- Flow 2 (95th percentile 25.12 ms)
- Flow 3 (95th percentile 25.73 ms)
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-02 22:11:13
End at: 2018-02-02 22:11:43
Local clock offset: 0.141 ms
Remote clock offset: -20.109 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 29.899 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 29.145 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 30.118 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 30.112 ms
Loss rate: 0.12%
Run 1: Report of Indigo-1-32 — Data Link
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-02 22:31:31
End at: 2018-02-02 22:32:01
Local clock offset: 0.175 ms
Remote clock offset: 0.301 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.36 Mbit/s
95th percentile per-packet one-way delay: 9.760 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 9.369 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 24.04 Mbit/s
95th percentile per-packet one-way delay: 10.310 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 63.98 Mbit/s
95th percentile per-packet one-way delay: 10.413 ms
Loss rate: 0.12%
Run 2: Report of Indigo-1-32 — Data Link

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

![Graph 2: Per-packet one way delay (ms)](image2)
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-02 22:51:49
End at: 2018-02-02 22:52:19
Local clock offset: 0.232 ms
Remote clock offset: 0.236 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.16 Mbit/s
95th percentile per-packet one-way delay: 9.671 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 8.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.84 Mbit/s
95th percentile per-packet one-way delay: 9.466 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 10.520 ms
Loss rate: 0.07%
Run 3: Report of Indigo-1-32 — Data Link

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

Flow 1 (95th percentile 8.09 ms)  Flow 2 (95th percentile 9.47 ms)  Flow 3 (95th percentile 10.52 ms)
Run 4: Statistics of Indigo-1-32

Start at: 2018-02-02 23:12:10
End at: 2018-02-02 23:12:40
Local clock offset: 0.212 ms
Remote clock offset: 0.446 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.13 Mbit/s
  95th percentile per-packet one-way delay: 10.939 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 45.81 Mbit/s
  95th percentile per-packet one-way delay: 10.137 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 52.90 Mbit/s
  95th percentile per-packet one-way delay: 11.067 ms
  Loss rate: 0.05%
-- Flow 3:
  Average throughput: 49.44 Mbit/s
  95th percentile per-packet one-way delay: 11.468 ms
  Loss rate: 0.13%
Run 4: Report of Indigo-1-32 — Data Link
Run 5: Statistics of Indigo-1-32

Start at: 2018-02-02 23:32:35
End at: 2018-02-02 23:33:05
Local clock offset: 0.177 ms
Remote clock offset: -4.279 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 14.283 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 13.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 14.560 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 14.931 ms
Loss rate: 0.10%
Run 5: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 47.79 Mbit/s)
- Flow 1 egress (mean 47.79 Mbit/s)
- Flow 2 ingress (mean 45.44 Mbit/s)
- Flow 2 egress (mean 45.44 Mbit/s)
- Flow 3 ingress (mean 56.47 Mbit/s)
- Flow 3 egress (mean 56.48 Mbit/s)

Flow 1 (95th percentile 13.63 ms)
Flow 2 (95th percentile 14.56 ms)
Flow 3 (95th percentile 14.93 ms)
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-02 23:53:00
End at: 2018-02-02 23:53:30
Local clock offset: 0.251 ms
Remote clock offset: 1.0 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 69.85 Mbit/s
  95th percentile per-packet one-way delay: 11.495 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 7.24 Mbit/s
  95th percentile per-packet one-way delay: 4.689 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 69.26 Mbit/s
  95th percentile per-packet one-way delay: 11.355 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 50.98 Mbit/s
  95th percentile per-packet one-way delay: 14.486 ms
  Loss rate: 0.10%
Run 6: Report of Indigo-1-32 — Data Link

![Throughput Graph](image1)

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![Ping Delay Graph](image2)
Run 7: Statistics of Indigo-1-32

Start at: 2018-02-03 00:13:17
End at: 2018-02-03 00:13:47
Local clock offset: 0.156 ms
Remote clock offset: 1.299 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 10.083 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 22.10 Mbit/s
95th percentile per-packet one-way delay: 14.159 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 66.18 Mbit/s
95th percentile per-packet one-way delay: 9.694 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 51.68 Mbit/s
95th percentile per-packet one-way delay: 9.806 ms
Loss rate: 0.12%
Run 8: Statistics of Indigo-1-32

Start at: 2018-02-03 00:33:35
End at: 2018-02-03 00:34:05
Local clock offset: 0.19 ms
Remote clock offset: -5.507 ms

# Below is generated by plot.py at 2018-02-03 05:18:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 17.872 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 17.083 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 18.015 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 18.571 ms
Loss rate: 0.10%
Run 8: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 51.74 Mbit/s)
- Flow 1 egress (mean 51.74 Mbit/s)
- Flow 2 ingress (mean 35.04 Mbit/s)
- Flow 2 egress (mean 35.05 Mbit/s)
- Flow 3 ingress (mean 43.25 Mbit/s)
- Flow 3 egress (mean 43.24 Mbit/s)

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

- Flow 1 (95th percentile 17.08 ms)
- Flow 2 (95th percentile 18.02 ms)
- Flow 3 (95th percentile 18.57 ms)
Run 9: Statistics of Indigo-1-32

Start at: 2018-02-03 00:54:06
End at: 2018-02-03 00:54:36
Local clock offset: 0.144 ms
Remote clock offset: 1.305 ms

# Below is generated by plot.py at 2018-02-03 05:18:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 9.439 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 9.257 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 9.605 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 9.543 ms
Loss rate: 0.11%
Run 9: Report of Indigo-1-32 — Data Link
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-03 01:14:30
End at: 2018-02-03 01:15:00
Local clock offset: 0.19 ms
Remote clock offset: 1.079 ms

# Below is generated by plot.py at 2018-02-03 05:19:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.31 Mbit/s
  95th percentile per-packet one-way delay: 9.704 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 51.13 Mbit/s
  95th percentile per-packet one-way delay: 9.422 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 31.12 Mbit/s
  95th percentile per-packet one-way delay: 10.481 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 77.85 Mbit/s
  95th percentile per-packet one-way delay: 8.645 ms
  Loss rate: 0.11%
Run 10: Report of Indigo-1-32 — Data Link
Run 1: Statistics of Vivace-latency

Start at: 2018-02-02 22:14:37
End at: 2018-02-02 22:15:07
Local clock offset: 0.227 ms
Remote clock offset: 0.18 ms

# Below is generated by plot.py at 2018-02-03 05:19:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 43.10 Mbit/s
95th percentile per-packet one-way delay: 3.846 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 2.782 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.13 Mbit/s
95th percentile per-packet one-way delay: 4.014 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 3.692 ms
Loss rate: 0.08%
Run 1: Report of Vivace-latency — Data Link
Run 2: Statistics of Vivace-latency

Start at: 2018-02-02 22:34:54
End at: 2018-02-02 22:35:24
Local clock offset: 0.27 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-02-03 05:19:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.32 Mbit/s
95th percentile per-packet one-way delay: 5.057 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 3.757 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 36.60 Mbit/s
95th percentile per-packet one-way delay: 4.898 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 24.59 Mbit/s
95th percentile per-packet one-way delay: 8.095 ms
Loss rate: 0.07%
Run 2: Report of Vivace-latency — Data Link
Run 3: Statistics of Vivace-latency

Start at: 2018-02-02 22:55:11
End at: 2018-02-02 22:55:41
Local clock offset: 0.296 ms
Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-02-03 05:19:10
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 80.61 Mbit/s
    95th percentile per-packet one-way delay: 4.180 ms
    Loss rate: 0.01%
-- Flow 1:
    Average throughput: 76.76 Mbit/s
    95th percentile per-packet one-way delay: 4.173 ms
    Loss rate: 0.01%
-- Flow 2:
    Average throughput: 3.95 Mbit/s
    95th percentile per-packet one-way delay: 4.426 ms
    Loss rate: 0.07%
-- Flow 3:
    Average throughput: 3.72 Mbit/s
    95th percentile per-packet one-way delay: 3.887 ms
    Loss rate: 0.06%
Run 3: Report of Vivace-latency — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 76.76 Mbit/s)
Flow 1 egress (mean 76.76 Mbit/s)
Flow 2 ingress (mean 3.95 Mbit/s)
Flow 2 egress (mean 3.95 Mbit/s)
Flow 3 ingress (mean 3.72 Mbit/s)
Flow 3 egress (mean 3.72 Mbit/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 4.17 ms)
Flow 2 (95th percentile 4.43 ms)
Flow 3 (95th percentile 3.89 ms)
Run 4: Statistics of Vivace-latency

Start at: 2018-02-02 23:15:34
End at: 2018-02-02 23:16:04
Local clock offset: 0.281 ms
Remote clock offset: -5.907 ms

# Below is generated by plot.py at 2018-02-03 05:19:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 27.070 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 26.586 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 26.894 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 27.353 ms
Loss rate: 0.34%
Run 4: Report of Vivace-latency — Data Link

[Graph showing throughput and packet delay over time for different flows with mean values provided]
Run 5: Statistics of Vivace-latency

Start at: 2018-02-02 23:35:59
End at: 2018-02-02 23:36:29
Local clock offset: 0.297 ms
Remote clock offset: -19.206 ms

# Below is generated by plot.py at 2018-02-03 05:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 28.176 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 68.22 Mbit/s
95th percentile per-packet one-way delay: 25.920 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 28.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 40.591 ms
Loss rate: 0.09%
Run 5: Report of Vivace-latency — Data Link
Run 6: Statistics of Vivace-latency

Start at: 2018-02-02 23:56:21
End at: 2018-02-02 23:56:51
Local clock offset: 0.246 ms
Remote clock offset: -1.597 ms

# Below is generated by plot.py at 2018-02-03 05:19:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 32.97 Mbit/s
  95th percentile per-packet one-way delay: 8.054 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 22.87 Mbit/s
  95th percentile per-packet one-way delay: 8.031 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 2.52 Mbit/s
  95th percentile per-packet one-way delay: 5.657 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 25.57 Mbit/s
  95th percentile per-packet one-way delay: 8.349 ms
  Loss rate: 0.03%
Run 6: Report of Vivace-latency — Data Link

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

- Flow 1 ingress (mean 22.87 Mbit/s)
- Flow 1 egress (mean 22.87 Mbit/s)
- Flow 2 ingress (mean 2.52 Mbit/s)
- Flow 2 egress (mean 2.52 Mbit/s)
- Flow 3 ingress (mean 25.57 Mbit/s)
- Flow 3 egress (mean 25.57 Mbit/s)
Run 7: Statistics of Vivace-latency

Start at: 2018-02-03 00:16:41
End at: 2018-02-03 00:17:11
Local clock offset: 0.219 ms
Remote clock offset: -2.137 ms

# Below is generated by plot.py at 2018-02-03 05:19:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 17.578 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 6.032 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 6.054 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 17.752 ms
Loss rate: 0.40%
Run 7: Report of Vivace-latency — Data Link

![Graph 1: Throughput vs Time]

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

Legend:
- Flow 1 ingress (mean 1.86 Mbit/s)
- Flow 1 egress (mean 1.86 Mbit/s)
- Flow 2 ingress (mean 3.42 Mbit/s)
- Flow 2 egress (mean 3.42 Mbit/s)
- Flow 3 ingress (mean 49.16 Mbit/s)
- Flow 3 egress (mean 40.98 Mbit/s)

Legend:
- Flow 1 (95th percentile 6.03 ms)
- Flow 2 (95th percentile 6.05 ms)
- Flow 3 (95th percentile 17.75 ms)
Run 8: Statistics of Vivace-latency

Start at: 2018-02-03 00:36:59
End at: 2018-02-03 00:37:29
Local clock offset: 0.172 ms
Remote clock offset: 1.295 ms

# Below is generated by plot.py at 2018-02-03 05:19:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 70.40 Mbit/s
  95th percentile per-packet one-way delay: 29.651 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 39.74 Mbit/s
  95th percentile per-packet one-way delay: 14.155 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 27.67 Mbit/s
  95th percentile per-packet one-way delay: 29.926 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 37.29 Mbit/s
  95th percentile per-packet one-way delay: 30.191 ms
  Loss rate: 0.04%
Run 8: Report of Vivace-latency — Data Link
Run 9: Statistics of Vivace-latency

Start at: 2018-02-03 00:57:29
End at: 2018-02-03 00:57:59
Local clock offset: 0.205 ms
Remote clock offset: 1.32 ms

# Below is generated by plot.py at 2018-02-03 05:19:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 15.374 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 51.38 Mbit/s
95th percentile per-packet one-way delay: 15.274 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.53 Mbit/s
95th percentile per-packet one-way delay: 16.243 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 18.542 ms
Loss rate: 0.01%
Run 9: Report of Vivace-latency — Data Link

![Graph 1: Throughput vs Time (per flow)]

- Flow 1 ingress (mean 51.37 Mbit/s)
- Flow 1 egress (mean 51.38 Mbit/s)
- Flow 2 ingress (mean 40.53 Mbit/s)
- Flow 2 egress (mean 40.53 Mbit/s)
- Flow 3 ingress (mean 9.16 Mbit/s)
- Flow 3 egress (mean 9.17 Mbit/s)

![Graph 2: Packet Delay vs Time (per flow)]

- Flow 1 (95th percentile 15.27 ms)
- Flow 2 (95th percentile 16.24 ms)
- Flow 3 (95th percentile 18.54 ms)
Run 10: Statistics of Vivace-latency

Start at: 2018-02-03 01:17:55
End at: 2018-02-03 01:18:25
Local clock offset: 0.184 ms
Remote clock offset: -19.58 ms

# Below is generated by plot.py at 2018-02-03 05:19:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.57 Mbit/s
95th percentile per-packet one-way delay: 25.467 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 24.828 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 26.331 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 26.364 ms
Loss rate: 0.07%
Run 10: Report of Vivace-latency — Data Link
Run 1: Statistics of Vivace-loss

Start at: 2018-02-02 22:08:51
End at: 2018-02-02 22:09:21
Local clock offset: 0.149 ms
Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2018-02-03 05:20:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 35.437 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 34.762 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 35.485 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 35.589 ms
Loss rate: 7.49%
Run 1: Report of Vivace-loss — Data Link
Run 2: Statistics of Vivace-loss

Start at: 2018-02-02 22:29:13
End at: 2018-02-02 22:29:43
Local clock offset: 0.253 ms
Remote clock offset: 0.317 ms
Run 2: Report of Vivace-loss — Data Link

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Run 3: Statistics of Vivace-loss

Start at: 2018-02-02 22:49:29
End at: 2018-02-02 22:49:59
Local clock offset: 0.242 ms
Remote clock offset: 0.243 ms
Run 3: Report of Vivace-loss — Data Link

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Run 4: Statistics of Vivace-loss

Start at: 2018-02-02 23:09:49
End at: 2018-02-02 23:10:19
Local clock offset: 0.312 ms
Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2018-02-03 05:20:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.23 Mbit/s
95th percentile per-packet one-way delay: 26.004 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 25.510 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 7.83 Mbit/s
95th percentile per-packet one-way delay: 26.179 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 26.735 ms
Loss rate: 0.21%
Run 4: Report of Vivace-loss — Data Link
Run 5: Statistics of Vivace-loss

Start at: 2018-02-02 23:30:14
End at: 2018-02-02 23:30:44
Local clock offset: 0.218 ms
Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2018-02-03 05:20:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 25.491 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 79.59 Mbit/s
95th percentile per-packet one-way delay: 25.191 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 25.551 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 40.27 Mbit/s
95th percentile per-packet one-way delay: 25.803 ms
Loss rate: 0.28%
Run 5: Report of Vivace-loss — Data Link

![Graph showing throughput and packet loss over time]

- Flow 1 ingress (mean 79.58 Mbit/s)
- Flow 1 egress (mean 79.59 Mbit/s)
- Flow 2 ingress (mean 2.97 Mbit/s)
- Flow 2 egress (mean 2.97 Mbit/s)
- Flow 3 ingress (mean 40.27 Mbit/s)
- Flow 3 egress (mean 40.27 Mbit/s)

![Graph showing packet loss over time]

- Flow 1 (95th percentile 25.19 ms)
- Flow 2 (95th percentile 25.55 ms)
- Flow 3 (95th percentile 25.80 ms)
Run 6: Statistics of Vivace-loss

Start at: 2018-02-02 23:50:40
End at: 2018-02-02 23:51:10
Local clock offset: 0.203 ms
Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2018-02-03 05:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 34.688 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 59.64 Mbit/s
95th percentile per-packet one-way delay: 32.773 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 44.44 Mbit/s
95th percentile per-packet one-way delay: 35.117 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 27.14 Mbit/s
95th percentile per-packet one-way delay: 35.621 ms
Loss rate: 0.97%
Run 6: Report of Vivace-loss — Data Link

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

![Graph of Packet Loss vs Time](image2.png)
Run 7: Statistics of Vivace-loss

Start at: 2018-02-03 00:10:58
End at: 2018-02-03 00:11:28
Local clock offset: 0.133 ms
Remote clock offset: 1.297 ms

# Below is generated by plot.py at 2018-02-03 05:20:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.13 Mbit/s
95th percentile per-packet one-way delay: 25.141 ms
Loss rate: 5.77%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 24.910 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 69.98 Mbit/s
95th percentile per-packet one-way delay: 25.071 ms
Loss rate: 3.50%
-- Flow 3:
Average throughput: 43.93 Mbit/s
95th percentile per-packet one-way delay: 25.410 ms
Loss rate: 13.11%
Run 7: Report of Vivace-loss — Data Link
Run 8: Statistics of Vivace-loss

Start at: 2018-02-03 00:31:16
End at: 2018-02-03 00:31:46
Local clock offset: 0.104 ms
Remote clock offset: -18.971 ms

# Below is generated by plot.py at 2018-02-03 05:20:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 62.70 Mbit/s
  95th percentile per-packet one-way delay: 45.911 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 2.70 Mbit/s
  95th percentile per-packet one-way delay: 46.928 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 67.81 Mbit/s
  95th percentile per-packet one-way delay: 45.581 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 45.61 Mbit/s
  95th percentile per-packet one-way delay: 46.993 ms
  Loss rate: 0.26%
Run 8: Report of Vivace-loss — Data Link
Run 9: Statistics of Vivace-loss

Start at: 2018-02-03 00:51:46
End at: 2018-02-03 00:52:16
Local clock offset: 0.147 ms
Remote clock offset: -18.312 ms

# Below is generated by plot.py at 2018-02-03 05:20:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 44.769 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 44.471 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 44.710 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 44.868 ms
Loss rate: 0.32%
Run 9: Report of Vivace-loss — Data Link
Run 10: Statistics of Vivace-loss

Start at: 2018-02-03 01:12:09  
End at: 2018-02-03 01:12:39  
Local clock offset: 0.145 ms  
Remote clock offset: 1.103 ms

# Below is generated by plot.py at 2018-02-03 05:21:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.32 Mbit/s
  95th percentile per-packet one-way delay: 35.203 ms
  Loss rate: 1.70%
-- Flow 1:
  Average throughput: 56.86 Mbit/s
  95th percentile per-packet one-way delay: 34.427 ms
  Loss rate: 1.44%
-- Flow 2:
  Average throughput: 41.62 Mbit/s
  95th percentile per-packet one-way delay: 35.433 ms
  Loss rate: 2.63%
-- Flow 3:
  Average throughput: 29.99 Mbit/s
  95th percentile per-packet one-way delay: 35.403 ms
  Loss rate: 0.57%
Run 10: Report of Vivace-loss — Data Link

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

[Graph 2: Per packet one way delay (ms) vs Time (s)]
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-02 22:15:44
End at: 2018-02-02 22:16:14
Local clock offset: 0.216 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2018-02-03 05:21:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 31.564 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 61.28 Mbit/s
95th percentile per-packet one-way delay: 29.892 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 32.273 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 26.89 Mbit/s
95th percentile per-packet one-way delay: 34.762 ms
Loss rate: 0.22%
Run 1: Report of Vivace-LTE — Data Link

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

- Flow 1 ingress (mean 61.31 Mbit/s)
- Flow 1 egress (mean 61.28 Mbit/s)
- Flow 2 ingress (mean 35.21 Mbit/s)
- Flow 2 egress (mean 35.19 Mbit/s)
- Flow 3 ingress (mean 26.91 Mbit/s)
- Flow 3 egress (mean 26.89 Mbit/s)

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

- Flow 1 (95th percentile 29.89 ms)
- Flow 2 (95th percentile 32.27 ms)
- Flow 3 (95th percentile 34.76 ms)
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-02 22:36:01
End at: 2018-02-02 22:36:31
Local clock offset: 0.226 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2018-02-03 05:21:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 31.539 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 28.630 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 32.337 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 33.175 ms
Loss rate: 0.15%
Run 2: Report of Vivace-LTE — Data Link

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

- **Flow 1** (ingress: mean 58.81 Mbit/s, egress: mean 58.81 Mbit/s)
- **Flow 2** (ingress: mean 39.27 Mbit/s, egress: mean 39.27 Mbit/s)
- **Flow 3** (ingress: mean 24.23 Mbit/s, egress: mean 24.23 Mbit/s)

- **Packet Delay**:
  - Flow 1 (95th percentile 28.63 ms)
  - Flow 2 (95th percentile 32.34 ms)
  - Flow 3 (95th percentile 33.17 ms)
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-02 22:56:21
End at: 2018-02-02 22:56:51
Local clock offset: 0.314 ms
Remote clock offset: 0.241 ms

# Below is generated by plot.py at 2018-02-03 05:21:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 14.637 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 8.851 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 11.701 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 14.705 ms
Loss rate: 0.05%
Run 3: Report of Vivace-LTE — Data Link

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Throughput (Mbps/s)

Time (s)

- Flow 1 ingress (mean 7.75 Mbit/s)
- Flow 2 ingress (mean 2.13 Mbit/s)
- Flow 3 ingress (mean 76.27 Mbit/s)
- Flow 1 egress (mean 7.75 Mbit/s)
- Flow 2 egress (mean 2.13 Mbit/s)
- Flow 3 egress (mean 76.26 Mbit/s)

---

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 8.85 ms)
- Flow 2 (95th percentile 11.70 ms)
- Flow 3 (95th percentile 14.71 ms)
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-02 23:16:41
End at: 2018-02-02 23:17:11
Local clock offset: 0.298 ms
Remote clock offset: 0.578 ms

# Below is generated by plot.py at 2018-02-03 05:21:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 22.160 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.31 Mbit/s
95th percentile per-packet one-way delay: 21.997 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 22.469 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 24.76 Mbit/s
95th percentile per-packet one-way delay: 22.540 ms
Loss rate: 0.06%
Run 4: Report of Vivace-LTE — Data Link
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-02 23:37:08
End at: 2018-02-02 23:37:38
Local clock offset: 0.219 ms
Remote clock offset: 0.864 ms

# Below is generated by plot.py at 2018-02-03 05:22:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 28.541 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 62.97 Mbit/s
95th percentile per-packet one-way delay: 27.578 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 29.044 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 29.931 ms
Loss rate: 0.40%
Run 5: Report of Vivace-LTE — Data Link
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-02 23:57:27
End at: 2018-02-02 23:57:57
Local clock offset: 0.2 ms
Remote clock offset: 1.089 ms

# Below is generated by plot.py at 2018-02-03 05:22:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 32.176 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 61.91 Mbit/s
95th percentile per-packet one-way delay: 30.363 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 34.26 Mbit/s
95th percentile per-packet one-way delay: 32.556 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 26.51 Mbit/s
95th percentile per-packet one-way delay: 32.906 ms
Loss rate: 0.07%
Run 6: Report of Vivace-LTE — Data Link
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-03 00:17:46
End at: 2018-02-03 00:18:16
Local clock offset: 0.196 ms
Remote clock offset: 1.381 ms

# Below is generated by plot.py at 2018-02-03 05:22:08
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 93.58 Mbit/s
   95th percentile per-packet one-way delay: 31.821 ms
   Loss rate: 0.14%
-- Flow 1:
   Average throughput: 61.57 Mbit/s
   95th percentile per-packet one-way delay: 28.825 ms
   Loss rate: 0.07%
-- Flow 2:
   Average throughput: 33.61 Mbit/s
   95th percentile per-packet one-way delay: 32.335 ms
   Loss rate: 0.19%
-- Flow 3:
   Average throughput: 29.46 Mbit/s
   95th percentile per-packet one-way delay: 34.349 ms
   Loss rate: 0.45%
Run 7: Report of Vivace-LTE — Data Link

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

Legend:
- Flow 1 ingress (mean 61.57 Mbit/s)
- Flow 1 egress (mean 61.57 Mbit/s)
- Flow 2 ingress (mean 33.65 Mbit/s)
- Flow 2 egress (mean 33.61 Mbit/s)
- Flow 3 ingress (mean 29.55 Mbit/s)
- Flow 3 egress (mean 29.46 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 28.32 ms)
- Flow 2 (95th percentile 32.34 ms)
- Flow 3 (95th percentile 34.35 ms)
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-03 00:38:07
End at: 2018-02-03 00:38:37
Local clock offset: 0.218 ms
Remote clock offset: 1.225 ms

# Below is generated by plot.py at 2018-02-03 05:22:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 34.431 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 32.524 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 31.18 Mbit/s
95th percentile per-packet one-way delay: 35.077 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 28.56 Mbit/s
95th percentile per-packet one-way delay: 35.428 ms
Loss rate: 0.45%
Run 8: Report of Vivace-LTE — Data Link

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

- Flow 1 ingress (mean 63.59 Mbit/s)
- Flow 1 egress (mean 63.56 Mbit/s)
- Flow 2 ingress (mean 31.22 Mbit/s)
- Flow 2 egress (mean 31.18 Mbit/s)
- Flow 3 ingress (mean 28.67 Mbit/s)
- Flow 3 egress (mean 28.56 Mbit/s)
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-03 00:58:38
End at: 2018-02-03 00:59:08
Local clock offset: 0.192 ms
Remote clock offset: 1.234 ms

# Below is generated by plot.py at 2018-02-03 05:22:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.90 Mbit/s
95th percentile per-packet one-way delay: 28.785 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 61.47 Mbit/s
95th percentile per-packet one-way delay: 27.589 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: 29.068 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 25.88 Mbit/s
95th percentile per-packet one-way delay: 29.932 ms
Loss rate: 0.21%
Run 9: Report of Vivace-LTE — Data Link
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-03 01:19:04
End at: 2018-02-03 01:19:34
Local clock offset: 0.09 ms
Remote clock offset: 1.052 ms

# Below is generated by plot.py at 2018-02-03 05:22:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 32.523 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 60.53 Mbit/s
95th percentile per-packet one-way delay: 30.899 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 36.44 Mbit/s
95th percentile per-packet one-way delay: 32.836 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 28.02 Mbit/s
95th percentile per-packet one-way delay: 34.633 ms
Loss rate: 0.12%
Run 10: Report of Vivace-LTE — Data Link