Pantheon Report

Generated at 2018-04-11 01:54:52 (UTC).
Data path: India Ethernet (remote) → AWS India 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 nets.org.sg and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ eb420b5be9ba2fcd22cf68b9ff5a2000462fc59
third_party/calibrated_koho @ 3cb73e0d1c0322cd9e44eae37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eaa3238475c4cd8c1a43d28df7b0f6f4ca2
third_party/indigo @ a9b2060439e4da2e8987e893e3e6a7d7c0a9b9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230d7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d56d386d4fd0e0ecbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7724f22202e8a044d8360fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aa88e808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libuptp @ b3465b949e2826f2b179eaa4b4a9065e6bb7cf3c
third_party/pantheon-tunnel @ f1b053193c2861da659ba9013db2674cc5cf993
third_party/pcc @ 1af958fba0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc97f3cffe2
third_party/scream @ c3370f7bd17265a79abe34e016ead23f596b85
third_party/sourdough @ f1a14bffe749734737f61b1eaeeeb30b267cede681
third_party/sprout @ 6f2e6e6e088d91066a9f203df375eae2665089ce
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutcomm.cc
third_party/verus @ 4d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822e8e5d0031620f4bebf38aeadc5581
test from India Ethernet to AWS India 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>
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<td>flow 2</td>
<td>flow 3</td>
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<td>57.81</td>
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<td>41.05</td>
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<td>FillP</td>
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<td>44.08</td>
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<td>44.70</td>
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<td>Vivace-latency</td>
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<td>59.08</td>
<td>31.53</td>
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<td>Vivace-loss</td>
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<td>38.71</td>
<td>29.15</td>
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<td>Vivace-LTE</td>
<td>10</td>
<td>56.59</td>
<td>38.95</td>
<td>26.41</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-04-10 18:08:35
End at: 2018-04-10 18:09:05
Local clock offset: -1.854 ms
Remote clock offset: -1.189 ms

# Below is generated by plot.py at 2018-04-11 01:26:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.66 Mbit/s
95th percentile per-packet one-way delay: 38.862 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.91 Mbit/s
95th percentile per-packet one-way delay: 37.973 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 38.60 Mbit/s
95th percentile per-packet one-way delay: 40.691 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 35.498 ms
Loss rate: 0.48%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-04-10 18:31:26
End at: 2018-04-10 18:31:56
Local clock offset: -2.844 ms
Remote clock offset: 6.777 ms

# Below is generated by plot.py at 2018-04-11 01:26:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 38.849 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 35.652 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 39.530 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 46.245 ms
Loss rate: 0.47%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2018-04-10 18:53:31
End at: 2018-04-10 18:54:01
Local clock offset: -0.197 ms
Remote clock offset: 6.796 ms

# Below is generated by plot.py at 2018-04-11 01:26:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.08 Mbit/s
  95th percentile per-packet one-way delay: 38.806 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 58.96 Mbit/s
  95th percentile per-packet one-way delay: 35.930 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 40.71 Mbit/s
  95th percentile per-packet one-way delay: 39.234 ms
  Loss rate: 0.20%
-- Flow 3:
  Average throughput: 33.24 Mbit/s
  95th percentile per-packet one-way delay: 45.574 ms
  Loss rate: 0.47%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-04-10 19:15:40
End at: 2018-04-10 19:16:10
Local clock offset: 1.481 ms
Remote clock offset: 3.931 ms

# Below is generated by plot.py at 2018-04-11 01:26:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 47.276 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 46.983 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 34.890 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 57.604 ms
Loss rate: 0.43%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2018-04-10 19:37:22
End at: 2018-04-10 19:37:52
Local clock offset: 1.549 ms
Remote clock offset: -1.452 ms

# Below is generated by plot.py at 2018-04-11 01:26:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.95 Mbit/s
  95th percentile per-packet one-way delay: 49.564 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 58.93 Mbit/s
  95th percentile per-packet one-way delay: 49.167 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 48.41 Mbit/s
  95th percentile per-packet one-way delay: 37.719 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 17.54 Mbit/s
  95th percentile per-packet one-way delay: 60.210 ms
  Loss rate: 0.43%
Run 5: Report of TCP BBR — Data Link
Run 6: Statistics of TCP BBR

Start at: 2018-04-10 19:59:14
End at: 2018-04-10 19:59:44
Local clock offset: 0.869 ms
Remote clock offset: -4.001 ms

# Below is generated by plot.py at 2018-04-11 01:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 40.072 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 37.472 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 41.016 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 47.118 ms
Loss rate: 0.50%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-04-10 20:21:00
End at: 2018-04-10 20:21:30
Local clock offset: 0.958 ms
Remote clock offset: -7.434 ms

# Below is generated by plot.py at 2018-04-11 01:26:12
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 97.05 Mbit/s
    95th percentile per-packet one-way delay: 50.531 ms
    Loss rate: 0.18%
-- Flow 1:
    Average throughput: 58.37 Mbit/s
    95th percentile per-packet one-way delay: 50.062 ms
    Loss rate: 0.11%
-- Flow 2:
    Average throughput: 48.43 Mbit/s
    95th percentile per-packet one-way delay: 36.671 ms
    Loss rate: 0.25%
-- Flow 3:
    Average throughput: 19.52 Mbit/s
    95th percentile per-packet one-way delay: 59.160 ms
    Loss rate: 0.46%
Run 7: Report of TCP BBR — Data Link

![Graph of throughput and delay over time for different flows with mean values provided.]
Run 8: Statistics of TCP BBR

Start at: 2018-04-10 20:42:45
End at: 2018-04-10 20:43:15
Local clock offset: 1.004 ms
Remote clock offset: -5.176 ms

# Below is generated by plot.py at 2018-04-11 01:26:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.74 Mbit/s
95th percentile per-packet one-way delay: 45.692 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 60.21 Mbit/s
95th percentile per-packet one-way delay: 45.195 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 45.794 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 35.88 Mbit/s
95th percentile per-packet one-way delay: 46.721 ms
Loss rate: 0.59%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-04-10 21:03:58
End at: 2018-04-10 21:04:28
Local clock offset: 0.664 ms
Remote clock offset: -3.173 ms

# Below is generated by plot.py at 2018-04-11 01:27:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 44.404 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 56.00 Mbit/s
95th percentile per-packet one-way delay: 43.742 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.26 Mbit/s
95th percentile per-packet one-way delay: 46.123 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 37.619 ms
Loss rate: 0.50%
Run 9: Report of TCP BBR — Data Link

[Graphs showing throughput and per-packet one way delay over time for different flows with specified means and percentiles]
Run 10: Statistics of TCP BBR

Start at: 2018-04-10 21:25:08
End at: 2018-04-10 21:25:38
Local clock offset: 0.086 ms
Remote clock offset: 2.708 ms

# Below is generated by plot.py at 2018-04-11 01:27:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.92 Mbit/s
  95th percentile per-packet one-way delay: 49.484 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 58.78 Mbit/s
  95th percentile per-packet one-way delay: 49.102 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 48.38 Mbit/s
  95th percentile per-packet one-way delay: 37.440 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 17.96 Mbit/s
  95th percentile per-packet one-way delay: 59.994 ms
  Loss rate: 0.43%
Run 10: Report of TCP BBR — Data Link

[Graphs showing throughput and per-packet one-way delay over time]
Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 18:15:56
End at: 2018-04-10 18:16:26
Local clock offset: -1.602 ms
Remote clock offset: 1.251 ms

# Below is generated by plot.py at 2018-04-11 01:27:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.14 Mbit/s
  95th percentile per-packet one-way delay: 58.585 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 56.92 Mbit/s
  95th percentile per-packet one-way delay: 58.531 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 48.54 Mbit/s
  95th percentile per-packet one-way delay: 35.915 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 23.98 Mbit/s
  95th percentile per-packet one-way delay: 58.910 ms
  Loss rate: 0.70%
Run 1: Report of TCP Cubic — Data Link

![Graph of TCP Cubic data link performance with throughput and per-packet one-way delay over time for different flows.](image-url)

Legend:
- Flow 1 ingress (mean 56.89 Mbit/s)
- Flow 1 egress (mean 56.92 Mbit/s)
- Flow 2 ingress (mean 48.57 Mbit/s)
- Flow 2 egress (mean 48.54 Mbit/s)
- Flow 3 ingress (mean 23.98 Mbit/s)
- Flow 3 egress (mean 23.96 Mbit/s)
Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 18:38:37
End at: 2018-04-10 18:39:07
Local clock offset: -3.265 ms
Remote clock offset: 8.58 ms

# Below is generated by plot.py at 2018-04-11 01:27:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 45.900 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 45.836 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.52 Mbit/s
95th percentile per-packet one-way delay: 45.913 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 45.955 ms
Loss rate: 0.58%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 19:00:41
End at: 2018-04-10 19:01:11
Local clock offset: 0.554 ms
Remote clock offset: 5.508 ms

# Below is generated by plot.py at 2018-04-11 01:27:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 59.081 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 55.58 Mbit/s
95th percentile per-packet one-way delay: 59.009 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 59.256 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 48.25 Mbit/s
95th percentile per-packet one-way delay: 36.461 ms
Loss rate: 0.51%
Run 3: Report of TCP Cubic — Data Link
Run 4: Statistics of TCP Cubic

End at: 2018-04-10 19:23:23
Local clock offset: 1.264 ms
Remote clock offset: 2.787 ms

# Below is generated by plot.py at 2018-04-11 01:27:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.10 Mbit/s
  95th percentile per-packet one-way delay: 49.091 ms
  Loss rate: 0.21%
-- Flow 1:
  Average throughput: 59.48 Mbit/s
  95th percentile per-packet one-way delay: 49.041 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 40.48 Mbit/s
  95th percentile per-packet one-way delay: 49.131 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 32.23 Mbit/s
  95th percentile per-packet one-way delay: 49.123 ms
  Loss rate: 0.62%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 19:44:28
End at: 2018-04-10 19:44:58
Local clock offset: 1.322 ms
Remote clock offset: -2.541 ms

# Below is generated by plot.py at 2018-04-11 01:27:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 60.277 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.88 Mbit/s
95th percentile per-packet one-way delay: 60.216 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.53 Mbit/s
95th percentile per-packet one-way delay: 37.585 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 60.520 ms
Loss rate: 0.69%
Run 5: Report of TCP Cubic — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one way delay (ms)
Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 20:06:29
End at: 2018-04-10 20:06:59
Local clock offset: 0.805 ms
Remote clock offset: -5.487 ms

# Below is generated by plot.py at 2018-04-11 01:27:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 58.867 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 58.824 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 58.968 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 48.28 Mbit/s
95th percentile per-packet one-way delay: 36.074 ms
Loss rate: 0.50%
Run 6: Report of TCP Cubic — Data Link

![Graph showing network performance](image)

- Flow 1 ingress (mean 56.92 Mbit/s)
- Flow 1 egress (mean 56.97 Mbit/s)
- Flow 2 ingress (mean 36.35 Mbit/s)
- Flow 2 egress (mean 36.37 Mbit/s)
- Flow 3 ingress (mean 48.33 Mbit/s)
- Flow 3 egress (mean 48.28 Mbit/s)

![Graph showing round-trip time](image)

- Flow 1 (95th percentile 58.82 ms)
- Flow 2 (95th percentile 58.97 ms)
- Flow 3 (95th percentile 36.07 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 20:27:59
End at: 2018-04-10 20:28:29
Local clock offset: 0.738 ms
Remote clock offset: -7.481 ms

# Below is generated by plot.py at 2018-04-11 01:29:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 58.482 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.90 Mbit/s
95th percentile per-packet one-way delay: 58.422 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 35.841 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 58.780 ms
Loss rate: 0.71%
Run 7: Report of TCP Cubic — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 56.87 Mbps)
- Flow 1 egress (mean 56.90 Mbps)
- Flow 2 ingress (mean 48.59 Mbps)
- Flow 2 egress (mean 48.55 Mbps)
- Flow 3 ingress (mean 23.96 Mbps)
- Flow 3 egress (mean 23.98 Mbps)

**Packet Loss (ms)**
- Flow 1 (95th percentile 58.42 ms)
- Flow 2 (95th percentile 35.84 ms)
- Flow 3 (95th percentile 58.78 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 20:49:45
End at: 2018-04-10 20:50:15
Local clock offset: 1.272 ms
Remote clock offset: -4.115 ms

# Below is generated by plot.py at 2018-04-11 01:29:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 49.211 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.49 Mbit/s
95th percentile per-packet one-way delay: 49.058 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 49.234 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 49.326 ms
Loss rate: 0.62%
Run 8: Report of TCP Cubic — Data Link

![Graphs showing throughput and packet loss](image-url)
Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 21:10:58
End at: 2018-04-10 21:11:28
Local clock offset: 0.012 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-04-11 01:29:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.02 Mbit/s
  95th percentile per-packet one-way delay: 48.402 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 59.42 Mbit/s
  95th percentile per-packet one-way delay: 48.375 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 40.47 Mbit/s
  95th percentile per-packet one-way delay: 48.357 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 32.20 Mbit/s
  95th percentile per-packet one-way delay: 48.478 ms
  Loss rate: 0.61%
Run 9: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 21:32:10
End at: 2018-04-10 21:32:40
Local clock offset: -0.332 ms
Remote clock offset: 4.2 ms

# Below is generated by plot.py at 2018-04-11 01:29:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.16 Mbit/s
95th percentile per-packet one-way delay: 59.677 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 59.626 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 36.936 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 59.817 ms
Loss rate: 0.77%
Run 10: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 56.92 Mbit/s)**
- **Flow 1 egress (mean 56.95 Mbit/s)**
- **Flow 2 ingress (mean 48.54 Mbit/s)**
- **Flow 2 egress (mean 48.51 Mbit/s)**
- **Flow 3 ingress (mean 24.02 Mbit/s)**
- **Flow 3 egress (mean 24.02 Mbit/s)**

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

- **Flow 1 (95th percentile 59.63 ms)**
- **Flow 2 (95th percentile 36.94 ms)**
- **Flow 3 (95th percentile 59.82 ms)**
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 18:13:34
End at: 2018-04-10 18:14:04
Local clock offset: -1.573 ms
Remote clock offset: -0.731 ms

# Below is generated by plot.py at 2018-04-11 01:29:10
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.86 Mbit/s
  95th percentile per-packet one-way delay: 46.947 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 56.86 Mbit/s
  95th percentile per-packet one-way delay: 46.810 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 39.00 Mbit/s
  95th percentile per-packet one-way delay: 47.050 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 30.30 Mbit/s
  95th percentile per-packet one-way delay: 46.988 ms
  Loss rate: 0.62%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 18:36:13
End at: 2018-04-10 18:36:43
Local clock offset: -2.157 ms
Remote clock offset: 8.338 ms

# Below is generated by plot.py at 2018-04-11 01:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 56.615 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 62.30 Mbit/s
95th percentile per-packet one-way delay: 34.504 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 37.11 Mbit/s
95th percentile per-packet one-way delay: 56.815 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 20.20 Mbit/s
95th percentile per-packet one-way delay: 57.157 ms
Loss rate: 1.29%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-04-10 18:58:23
End at: 2018-04-10 18:58:53
Local clock offset: 0.155 ms
Remote clock offset: 4.874 ms

# Below is generated by plot.py at 2018-04-11 01:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 45.410 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 56.67 Mbit/s
95th percentile per-packet one-way delay: 45.391 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 45.354 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 45.476 ms
Loss rate: 0.95%
Run 3: Report of LEDBAT — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 36.66 Mbit/s)
Flow 1 egress (mean 56.67 Mbit/s)
Flow 2 ingress (mean 39.16 Mbit/s)
Flow 2 egress (mean 39.15 Mbit/s)
Flow 3 ingress (mean 30.59 Mbit/s)
Flow 3 egress (mean 30.49 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 45.39 ms)
Flow 2 (95th percentile 45.35 ms)
Flow 3 (95th percentile 45.48 ms)
Run 4: Statistics of LEDBAT

Start at: 2018-04-10 19:20:33
End at: 2018-04-10 19:21:03
Local clock offset: -0.52 ms
Remote clock offset: 3.002 ms

# Below is generated by plot.py at 2018-04-11 01:29:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.04 Mbit/s
  95th percentile per-packet one-way delay: 58.067 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 51.41 Mbit/s
  95th percentile per-packet one-way delay: 58.033 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 31.24 Mbit/s
  95th percentile per-packet one-way delay: 58.211 ms
  Loss rate: 0.38%
-- Flow 3:
  Average throughput: 44.86 Mbit/s
  95th percentile per-packet one-way delay: 36.050 ms
  Loss rate: 0.53%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-04-10 19:42:09
End at: 2018-04-10 19:42:39
Local clock offset: 1.183 ms
Remote clock offset: -3.013 ms

# Below is generated by plot.py at 2018-04-11 01:30:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.65 Mbit/s
95th percentile per-packet one-way delay: 48.807 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 48.733 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 48.874 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.72 Mbit/s
95th percentile per-packet one-way delay: 48.884 ms
Loss rate: 0.64%
Run 5: Report of LEDBAT — Data Link

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

![Graph 2: Per-packet one-way delay vs Time](image2)
Run 6: Statistics of LEDBAT

Start at: 2018-04-10 20:04:04
End at: 2018-04-10 20:04:34
Local clock offset: 0.736 ms
Remote clock offset: -5.485 ms

# Below is generated by plot.py at 2018-04-11 01:30:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.95 Mbit/s
95th percentile per-packet one-way delay: 58.160 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.04 Mbit/s
95th percentile per-packet one-way delay: 58.121 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 33.11 Mbit/s
95th percentile per-packet one-way delay: 58.259 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 44.97 Mbit/s
95th percentile per-packet one-way delay: 35.978 ms
Loss rate: 0.53%
Run 6: Report of LEDBAT — Data Link

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- **Throughput (Mbps)**
  - Flow 1 ingress (mean 56.01 Mbps)
  - Flow 1 egress (mean 56.04 Mbps)
  - Flow 2 ingress (mean 33.10 Mbps)
  - Flow 2 egress (mean 33.11 Mbps)
  - Flow 3 ingress (mean 45.08 Mbps)
  - Flow 3 egress (mean 44.97 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 58.12 ms)
  - Flow 2 (95th percentile 58.26 ms)
  - Flow 3 (95th percentile 35.98 ms)
Run 7: Statistics of LEDBAT

Start at: 2018-04-10 20:25:42
End at: 2018-04-10 20:26:12
Local clock offset: 1.546 ms
Remote clock offset: -7.362 ms

# Below is generated by plot.py at 2018-04-11 01:30:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 47.255 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.96 Mbit/s
95th percentile per-packet one-way delay: 47.178 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 47.313 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 47.306 ms
Loss rate: 0.64%
Run 7: Report of LEDBAT — Data Link

![Graph of Throughput and Per-packet round-trip time](image-url)
Run 8: Statistics of LEDBAT

Start at: 2018-04-10 20:47:28
End at: 2018-04-10 20:47:58
Local clock offset: 0.854 ms
Remote clock offset: -3.387 ms

# Below is generated by plot.py at 2018-04-11 01:30:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.26 Mbit/s
  95th percentile per-packet one-way delay: 57.978 ms
  Loss rate: 0.21%
-- Flow 1:
  Average throughput: 55.16 Mbit/s
  95th percentile per-packet one-way delay: 57.913 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 46.98 Mbit/s
  95th percentile per-packet one-way delay: 35.847 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 20.68 Mbit/s
  95th percentile per-packet one-way delay: 58.310 ms
  Loss rate: 0.86%
Run 8: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 55.12 Mbps)**
- **Flow 1 egress (mean 55.16 Mbps)**
- **Flow 2 ingress (mean 47.01 Mbps)**
- **Flow 2 egress (mean 46.98 Mbps)**
- **Flow 3 ingress (mean 20.71 Mbps)**
- **Flow 3 egress (mean 20.68 Mbps)**

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

- **Flow 1 (95th percentile 57.91 ms)**
- **Flow 2 (95th percentile 35.85 ms)**
- **Flow 3 (95th percentile 58.31 ms)**
Run 9: Statistics of LEDBAT

Start at: 2018-04-10 21:08:41
End at: 2018-04-10 21:09:11
Local clock offset: 0.015 ms
Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2018-04-11 01:30:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.00 Mbit/s
  95th percentile per-packet one-way delay: 57.511 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 55.24 Mbit/s
  95th percentile per-packet one-way delay: 57.191 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 46.86 Mbit/s
  95th percentile per-packet one-way delay: 35.526 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 19.94 Mbit/s
  95th percentile per-packet one-way delay: 58.190 ms
  Loss rate: 0.85%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-04-10 21:29:53
End at: 2018-04-10 21:30:23
Local clock offset: 0.026 ms
Remote clock offset: 4.588 ms

# Below is generated by plot.py at 2018-04-11 01:30:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 74.406 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 57.91 Mbit/s
95th percentile per-packet one-way delay: 74.551 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 75.953 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 35.943 ms
Loss rate: 0.55%
Run 10: Report of LEDBAT — Data Link
Run 1: Statistics of PCC

Start at: 2018-04-10 18:12:23
End at: 2018-04-10 18:12:53
Local clock offset: -1.485 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-04-11 01:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 33.935 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 33.901 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 37.012 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 35.88 Mbit/s
95th percentile per-packet one-way delay: 16.421 ms
Loss rate: 0.31%
Run 1: Report of PCC — Data Link

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

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

Start at: 2018-04-10 18:35:04
End at: 2018-04-10 18:35:34
Local clock offset: -2.887 ms
Remote clock offset: 6.983 ms

# Below is generated by plot.py at 2018-04-11 01:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 45.565 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 56.53 Mbit/s
95th percentile per-packet one-way delay: 44.746 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 45.621 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 29.61 Mbit/s
95th percentile per-packet one-way delay: 46.807 ms
Loss rate: 0.25%
Run 2: Report of PCC — Data Link

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

- **Flow 1 ingress (mean 56.53 Mbit/s)**
- **Flow 1 egress (mean 56.53 Mbit/s)**
- **Flow 2 ingress (mean 38.34 Mbit/s)**
- **Flow 2 egress (mean 38.31 Mbit/s)**
- **Flow 3 ingress (mean 29.58 Mbit/s)**
- **Flow 3 egress (mean 29.61 Mbit/s)**

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

- **Flow 1 (95th percentile 44.75 ms)**
- **Flow 2 (95th percentile 45.62 ms)**
- **Flow 3 (95th percentile 46.81 ms)**
Run 3: Statistics of PCC

Start at: 2018-04-10 18:57:12
End at: 2018-04-10 18:57:42
Local clock offset: 0.892 ms
Remote clock offset: 5.404 ms

# Below is generated by plot.py at 2018-04-11 01:32:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 34.436 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 34.807 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 42.66 Mbit/s
95th percentile per-packet one-way delay: 34.057 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 36.570 ms
Loss rate: 0.27%
Run 3: Report of PCC — Data Link

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

Start at: 2018-04-10 19:19:21
End at: 2018-04-10 19:19:51
Local clock offset: 0.048 ms
Remote clock offset: 2.035 ms

# Below is generated by plot.py at 2018-04-11 01:32:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.05 Mbit/s
95th percentile per-packet one-way delay: 47.854 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 46.624 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 47.861 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 49.077 ms
Loss rate: 0.26%
Run 4: Report of PCC — Data Link
Run 5: Statistics of PCC

Start at: 2018-04-10 19:41:00
End at: 2018-04-10 19:41:30
Local clock offset: 1.789 ms
Remote clock offset: -2.409 ms

# Below is generated by plot.py at 2018-04-11 01:32:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.12 Mbit/s
  95th percentile per-packet one-way delay: 48.688 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 58.74 Mbit/s
  95th percentile per-packet one-way delay: 47.640 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 35.36 Mbit/s
  95th percentile per-packet one-way delay: 48.609 ms
  Loss rate: 0.28%
-- Flow 3:
  Average throughput: 30.03 Mbit/s
  95th percentile per-packet one-way delay: 49.914 ms
  Loss rate: 0.25%
Run 5: Report of PCC — Data Link
Run 6: Statistics of PCC

Start at: 2018-04-10 20:02:55
End at: 2018-04-10 20:03:25
Local clock offset: 0.712 ms
Remote clock offset: -4.916 ms

# Below is generated by plot.py at 2018-04-11 01:32:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.54 Mbit/s
95th percentile per-packet one-way delay: 46.385 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 45.362 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 46.405 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 47.441 ms
Loss rate: 0.57%
Run 6: Report of PCC — Data Link
Run 7: Statistics of PCC

Start at: 2018-04-10 20:24:33
End at: 2018-04-10 20:25:03
Local clock offset: 0.558 ms
Remote clock offset: -7.277 ms

# Below is generated by plot.py at 2018-04-11 01:32:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 45.392 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 43.904 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 45.456 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 46.803 ms
Loss rate: 0.28%
Run 7: Report of PCC — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, with specific details provided for mean ingress and egress rates for each flow.]
Run 8: Statistics of PCC

Start at: 2018-04-10 20:46:19
End at: 2018-04-10 20:46:49
Local clock offset: 1.06 ms
Remote clock offset: -3.497 ms

# Below is generated by plot.py at 2018-04-11 01:32:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.05 Mbit/s
  95th percentile per-packet one-way delay: 39.122 ms
  Loss rate: 0.14%
  -- Flow 1:
  Average throughput: 61.35 Mbit/s
  95th percentile per-packet one-way delay: 39.460 ms
  Loss rate: 0.11%
  -- Flow 2:
  Average throughput: 44.71 Mbit/s
  95th percentile per-packet one-way delay: 17.247 ms
  Loss rate: 0.15%
  -- Flow 3:
  Average throughput: 9.08 Mbit/s
  95th percentile per-packet one-way delay: 41.330 ms
  Loss rate: 0.67%
Run 8: Report of PCC — Data Link

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**Throughput (Mbps)**

![Graph of throughput over time for different flows, showing varying peaks and trends.]

Legend:
- Flow 1 ingress (mean 61.35 Mbps)
- Flow 1 egress (mean 61.35 Mbps)
- Flow 2 ingress (mean 44.72 Mbps)
- Flow 2 egress (mean 44.71 Mbps)
- Flow 3 ingress (mean 9.10 Mbps)
- Flow 3 egress (mean 9.08 Mbps)

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

![Graph of packet delay over time for different flows, showing consistent delay patterns.]

Legend:
- Flow 1 (95th percentile 39.46 ms)
- Flow 2 (95th percentile 17.25 ms)
- Flow 3 (95th percentile 41.33 ms)

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Run 9: Statistics of PCC

Start at: 2018-04-10 21:07:32
End at: 2018-04-10 21:08:02
Local clock offset: 0.295 ms
Remote clock offset: -0.575 ms

# Below is generated by plot.py at 2018-04-11 01:32:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.54 Mbit/s
95th percentile per-packet one-way delay: 42.338 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 66.83 Mbit/s
95th percentile per-packet one-way delay: 41.872 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 21.36 Mbit/s
95th percentile per-packet one-way delay: 44.381 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 35.04 Mbit/s
95th percentile per-packet one-way delay: 21.479 ms
Loss rate: 0.32%
Run 9: Report of PCC — Data Link
Run 10: Statistics of PCC

Start at: 2018-04-10 21:28:45
End at: 2018-04-10 21:29:15
Local clock offset: -0.195 ms
Remote clock offset: 3.432 ms

# Below is generated by plot.py at 2018-04-11 01:32:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 47.404 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 59.60 Mbit/s
95th percentile per-packet one-way delay: 46.042 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 47.516 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 48.633 ms
Loss rate: 0.26%
Run 10: Report of PCC — Data Link

![Throughput Graph](image1)

![Packet Delay Graph](image2)
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 18:17:14
End at: 2018-04-10 18:17:44
Local clock offset: ~1.75 ms
Remote clock offset: 3.131 ms

# Below is generated by plot.py at 2018-04-11 01:33:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 88.14 Mbit/s
  95th percentile per-packet one-way delay: 54.646 ms
  Loss rate: 0.21%
-- Flow 1:
  Average throughput: 55.56 Mbit/s
  95th percentile per-packet one-way delay: 33.232 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 37.40 Mbit/s
  95th percentile per-packet one-way delay: 54.761 ms
  Loss rate: 0.22%
-- Flow 3:
  Average throughput: 23.54 Mbit/s
  95th percentile per-packet one-way delay: 55.051 ms
  Loss rate: 0.71%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 18:39:48
End at: 2018-04-10 18:40:18
Local clock offset: -3.202 ms
Remote clock offset: 9.794 ms

# Below is generated by plot.py at 2018-04-11 01:33:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 53.542 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 53.498 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.43 Mbit/s
95th percentile per-packet one-way delay: 32.168 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 0.65%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 19:01:59
End at: 2018-04-10 19:02:29
Local clock offset: 0.889 ms
Remote clock offset: 4.79 ms

# Below is generated by plot.py at 2018-04-11 01:33:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 54.619 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 55.94 Mbit/s
95th percentile per-packet one-way delay: 54.570 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 33.316 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 23.32 Mbit/s
95th percentile per-packet one-way delay: 54.915 ms
Loss rate: 0.72%
Run 3: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 55.91 Mbps)
  - Flow 1 egress (mean 55.94 Mbps)
  - Flow 2 ingress (mean 48.41 Mbps)
  - Flow 2 egress (mean 48.41 Mbps)
  - Flow 3 ingress (mean 23.31 Mbps)
  - Flow 3 egress (mean 23.32 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 54.57 ms)
  - Flow 2 (95th percentile 33.32 ms)
  - Flow 3 (95th percentile 54.91 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 19:24:04
End at: 2018-04-10 19:24:34
Local clock offset: 0.801 ms
Remote clock offset: 1.711 ms

# Below is generated by plot.py at 2018-04-11 01:33:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.83 Mbit/s
95th percentile per-packet one-way delay: 47.093 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.29 Mbit/s
95th percentile per-packet one-way delay: 47.019 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 41.02 Mbit/s
95th percentile per-packet one-way delay: 47.057 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 47.214 ms
Loss rate: 0.63%
Run 4: Report of QUIC Cubic — Data Link

[Graphs showing throughput and per-packet one-way delay for different flows with mean Throughput (Mbps) and 95th percentile delay in ms.]
Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 19:45:49
End at: 2018-04-10 19:46:19
Local clock offset: 1.335 ms
Remote clock offset: -1.762 ms

# Below is generated by plot.py at 2018-04-11 01:33:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.50 Mbit/s
95th percentile per-packet one-way delay: 44.917 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 43.896 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 45.167 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 27.63 Mbit/s
95th percentile per-packet one-way delay: 45.585 ms
Loss rate: 0.76%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 20:07:41
End at: 2018-04-10 20:08:11
Local clock offset: 1.522 ms
Remote clock offset: -6.324 ms

# Below is generated by plot.py at 2018-04-11 01:33:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.69 Mbit/s
95th percentile per-packet one-way delay: 47.046 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 57.49 Mbit/s
95th percentile per-packet one-way delay: 47.002 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 46.990 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.31 Mbit/s
95th percentile per-packet one-way delay: 47.133 ms
Loss rate: 0.61%
Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 20:29:13
End at: 2018-04-10 20:29:43
Local clock offset: 0.453 ms
Remote clock offset: -7.464 ms

# Below is generated by plot.py at 2018-04-11 01:33:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.86 Mbit/s
  95th percentile per-packet one-way delay: 45.067 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 57.20 Mbit/s
  95th percentile per-packet one-way delay: 44.926 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 41.22 Mbit/s
  95th percentile per-packet one-way delay: 45.113 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 31.19 Mbit/s
  95th percentile per-packet one-way delay: 45.216 ms
  Loss rate: 0.62%
Run 7: Report of QUIC Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 57.18 Mbit/s)
- Flow 1 egress (mean 57.20 Mbit/s)
- Flow 2 ingress (mean 41.23 Mbit/s)
- Flow 2 egress (mean 41.22 Mbit/s)
- Flow 3 ingress (mean 31.25 Mbit/s)
- Flow 3 egress (mean 31.19 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 44.93 ms)
- Flow 2 (95th percentile 45.11 ms)
- Flow 3 (95th percentile 45.22 ms)
Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 20:50:56
End at: 2018-04-10 20:51:26
Local clock offset: 1.082 ms
Remote clock offset: -4.173 ms

# Below is generated by plot.py at 2018-04-11 01:33:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 57.697 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 57.674 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.74 Mbit/s
95th percentile per-packet one-way delay: 57.807 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 46.91 Mbit/s
95th percentile per-packet one-way delay: 36.288 ms
Loss rate: 0.50%
Run 8: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 48.61 Mbit/s)
- Flow 1 egress (mean 48.63 Mbit/s)
- Flow 2 ingress (mean 36.74 Mbit/s)
- Flow 2 egress (mean 36.74 Mbit/s)
- Flow 3 ingress (mean 46.98 Mbit/s)
- Flow 3 egress (mean 46.91 Mbit/s)

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

- Flow 1 (95th percentile 57.67 ms)
- Flow 2 (95th percentile 57.81 ms)
- Flow 3 (95th percentile 36.29 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 21:12:08
End at: 2018-04-10 21:12:38
Local clock offset: 0.284 ms
Remote clock offset: 1.118 ms

# Below is generated by plot.py at 2018-04-11 01:35:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 46.038 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 53.31 Mbit/s
95th percentile per-packet one-way delay: 45.985 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 45.986 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.23 Mbit/s
95th percentile per-packet one-way delay: 46.155 ms
Loss rate: 0.62%
Run 9: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 53.30 Mbps)
  - Flow 1 egress (mean 53.31 Mbps)
  - Flow 2 ingress (mean 41.02 Mbps)
  - Flow 2 egress (mean 41.01 Mbps)
  - Flow 3 ingress (mean 31.30 Mbps)
  - Flow 3 egress (mean 31.23 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 45.98 ms)
  - Flow 2 (95th percentile 45.99 ms)
  - Flow 3 (95th percentile 46.16 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 21:33:20
End at: 2018-04-10 21:33:50
Local clock offset: 0.341 ms
Remote clock offset: 4.639 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.22 Mbit/s
95th percentile per-packet one-way delay: 57.315 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 48.16 Mbit/s
95th percentile per-packet one-way delay: 57.292 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 37.05 Mbit/s
95th percentile per-packet one-way delay: 57.427 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 46.90 Mbit/s
95th percentile per-packet one-way delay: 35.912 ms
Loss rate: 0.49%
Run 10: Report of QUIC Cubic — Data Link

[Graphs showing throughput and per-packet end-to-end delay over time for different flows, with annotations for each flow's throughput and delay values.]
Run 1: Statistics of SCReAM

Start at: 2018-04-10 18:14:50
End at: 2018-04-10 18:15:20
Local clock offset: -1.305 ms
Remote clock offset: 0.484 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 12.442 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 12.420 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 12.476 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 12.451 ms
  Loss rate: 0.35%
Run 1: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)

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

- Flow 1 (95th percentile 12.42 ms)
- Flow 2 (95th percentile 12.48 ms)
- Flow 3 (95th percentile 12.45 ms)
Run 2: Statistics of SCReAM

Start at: 2018-04-10 18:37:32
End at: 2018-04-10 18:38:02
Local clock offset: -2.538 ms
Remote clock offset: 8.379 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 11.251 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.245 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 11.252 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 11.251 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)
Run 3: Statistics of SCReAM

Start at: 2018-04-10 18:59:36
End at: 2018-04-10 19:00:06
Local clock offset: 0.16 ms
Remote clock offset: 5.963 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 9.495 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.507 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 9.476 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 9.442 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph of Throughput vs Time for different flows]

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)

![Graph of Per-packet one-way delay vs Time for different flows]

- Flow 1 (95th percentile 9.51 ms)
- Flow 2 (95th percentile 9.48 ms)
- Flow 3 (95th percentile 9.44 ms)
Run 4: Statistics of SCReAM

Start at: 2018-04-10 19:21:47
End at: 2018-04-10 19:22:17
Local clock offset: 1.218 ms
Remote clock offset: 3.857 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  95th percentile per-packet one-way delay: 13.461 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 13.490 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 13.393 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 13.306 ms
  Loss rate: 0.35%
Run 4: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)

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

- Flow 1 (95th percentile 13.49 ms)
- Flow 2 (95th percentile 13.39 ms)
- Flow 3 (95th percentile 13.31 ms)
Run 5: Statistics of SCReAM

Start at: 2018-04-10 19:43:22
End at: 2018-04-10 19:43:52
Local clock offset: 1.611 ms
Remote clock offset: -2.555 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.42 Mbit/s
  95th percentile per-packet one-way delay: 14.223 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 14.230 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 14.197 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 14.204 ms
  Loss rate: 0.35%
Run 5: Report of SCReAM — Data Link

![Graph of throughput and delay over time for different flows.]
Run 6: Statistics of SCReAM

Start at: 2018-04-10 20:05:23
End at: 2018-04-10 20:05:53
Local clock offset: 1.464 ms
Remote clock offset: -5.973 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 13.664 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.670 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 13.657 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.645 ms
Loss rate: 0.35%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-04-10 20:26:54
End at: 2018-04-10 20:27:24
Local clock offset: 0.711 ms
Remote clock offset: -8.488 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 13.068 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 13.069 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 13.065 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 13.064 ms
  Loss rate: 0.35%
Run 7: Report of SCReAM — Data Link
Run 8: Statistics of SCReAM

Start at: 2018-04-10 20:48:40
End at: 2018-04-10 20:49:10
Local clock offset: 1.255 ms
Remote clock offset: -3.42 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 13.137 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 13.146 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 13.132 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 13.124 ms
Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link
Run 9: Statistics of SCReAM

Start at: 2018-04-10 21:09:52
End at: 2018-04-10 21:10:23
Local clock offset: 0.641 ms
Remote clock offset: -0.758 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 14.232 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 14.223 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 14.230 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 14.242 ms
  Loss rate: 0.35%
Run 9: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbit/s)
- Flow 1 egress (mean 0.21 Mbit/s)
- Flow 2 ingress (mean 0.21 Mbit/s)
- Flow 2 egress (mean 0.21 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)
Run 10: Statistics of SCReAM

Start at: 2018-04-10 21:31:05
End at: 2018-04-10 21:31:35
Local clock offset: 0.052 ms
Remote clock offset: 3.958 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 13.596 ms
  Loss rate: 0.06%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 13.581 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 13.609 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 13.593 ms
  Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Packet loss rate (%)

Time (s)

Flow 1 (95th percentile 13.58 ms)  Flow 2 (95th percentile 13.61 ms)  Flow 3 (95th percentile 13.59 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 18:26:28
End at: 2018-04-10 18:26:58
Local clock offset: -1.687 ms
Remote clock offset: 6.436 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 13.040 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.906 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 12.900 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.193 ms
Loss rate: 0.15%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-04-10 18:48:30
End at: 2018-04-10 18:49:00
Local clock offset: -0.81 ms
Remote clock offset: 9.632 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 12.299 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 12.300 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 12.139 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 12.386 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link

![Graph of WebRTC media data](image)

![Graph of packet round-trip delay](image)
Run 3: Statistics of WebRTC media

Start at: 2018-04-10 19:10:42
End at: 2018-04-10 19:11:12
Local clock offset: 0.703 ms
Remote clock offset: 3.764 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 12.151 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 12.149 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 12.142 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 12.151 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)
- Flow 2 ingress (mean 0.06 Mbit/s)
- Flow 2 egress (mean 0.06 Mbit/s)
- Flow 3 ingress (mean 0.06 Mbit/s)
- Flow 3 egress (mean 0.06 Mbit/s)

![Graph showing time vs. throughput and delay](image-url)
Run 4: Statistics of WebRTC media

Start at: 2018-04-10 19:32:30
End at: 2018-04-10 19:33:00
Local clock offset: 1.424 ms
Remote clock offset: -1.13 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 15.995 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 15.978 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 16.092 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 15.946 ms
Loss rate: 0.08%
Run 5: Statistics of WebRTC media

Start at: 2018-04-10 19:54:24
End at: 2018-04-10 19:54:54
Local clock offset: 1.365 ms
Remote clock offset: -2.92 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 14.774 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 14.651 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.858 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.818 ms
Loss rate: 0.12%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

Start at: 2018-04-10 20:16:12
End at: 2018-04-10 20:16:42
Local clock offset: 1.373 ms
Remote clock offset: -6.759 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 15.471 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 15.029 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 16.374 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.153 ms
Loss rate: 0.08%
Run 6: Report of WebRTC media — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 0.07 Mbit/s)
Flow 1 egress (mean 0.07 Mbit/s)
Flow 2 ingress (mean 0.06 Mbit/s)
Flow 2 egress (mean 0.06 Mbit/s)
Flow 3 ingress (mean 0.05 Mbit/s)
Flow 3 egress (mean 0.05 Mbit/s)

Packet loss rate (percent)

Flow 1 (95th percentile 15.03 ms)
Flow 2 (95th percentile 16.37 ms)
Flow 3 (95th percentile 14.15 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-04-10 20:37:55
End at: 2018-04-10 20:38:25
Local clock offset: 0.885 ms
Remote clock offset: -4.916 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 14.365 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.076 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 14.258 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 14.486 ms
Loss rate: 0.08%
Run 7: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 0.06 Mbit/s)
  - Flow 1 egress (mean 0.06 Mbit/s)
  - Flow 2 ingress (mean 0.06 Mbit/s)
  - Flow 2 egress (mean 0.06 Mbit/s)
  - Flow 3 ingress (mean 0.05 Mbit/s)
  - Flow 3 egress (mean 0.05 Mbit/s)

- **Packet round-trip delay (ms):**
  - Flow 1 (95th percentile 14.08 ms)
  - Flow 2 (95th percentile 14.26 ms)
  - Flow 3 (95th percentile 14.49 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-04-10 20:59:13
End at: 2018-04-10 20:59:43
Local clock offset: 0.559 ms
Remote clock offset: -2.888 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 14.211 ms
  Loss rate: 0.02%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 14.279 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 14.039 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 14.366 ms
  Loss rate: 0.05%
Run 8: Report of WebRTC media — Data Link

![Graph 1: Throughput (Mbps)]

![Graph 2: Per packet one way delay (ms)]
Run 9: Statistics of WebRTC media

Start at: 2018-04-10 21:20:24
End at: 2018-04-10 21:20:54
Local clock offset: 0.685 ms
Remote clock offset: 2.418 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.17 Mbit/s
  95th percentile per-packet one-way delay: 15.215 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 15.212 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 15.542 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 14.887 ms
  Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 0.06 Mbit/s)
Flow 1 egress (mean 0.06 Mbit/s)
Flow 2 ingress (mean 0.06 Mbit/s)
Flow 2 egress (mean 0.06 Mbit/s)
Flow 3 ingress (mean 0.05 Mbit/s)
Flow 3 egress (mean 0.05 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 15.21 ms)
Flow 2 (95th percentile 15.54 ms)
Flow 3 (95th percentile 14.89 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-04-10 21:41:35
End at: 2018-04-10 21:42:05
Local clock offset: -0.072 ms
Remote clock offset: 3.282 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 13.172 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 13.238 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 13.215 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 13.028 ms
Loss rate: 0.19%
Run 10: Report of WebRTC media — Data Link

![Graph showing throughput and packet one-way delay.]
Run 1: Statistics of Sprout

Start at: 2018-04-10 18:25:19
End at: 2018-04-10 18:25:49
Local clock offset: -1.904 ms
Remote clock offset: 5.383 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.26 Mbit/s
  95th percentile per-packet one-way delay: 21.226 ms
  Loss rate: 0.16%
-- Flow 1:
  Average throughput: 24.29 Mbit/s
  95th percentile per-packet one-way delay: 21.012 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 24.15 Mbit/s
  95th percentile per-packet one-way delay: 21.476 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 24.02 Mbit/s
  95th percentile per-packet one-way delay: 21.328 ms
  Loss rate: 0.41%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-04-10 18:47:21
End at: 2018-04-10 18:47:51
Local clock offset: -1.572 ms
Remote clock offset: 9.158 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 19.980 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 20.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.35 Mbit/s
95th percentile per-packet one-way delay: 19.645 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 20.619 ms
Loss rate: 0.41%
Run 2: Report of Sprout — Data Link

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

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

Start at: 2018-04-10 19:09:34
End at: 2018-04-10 19:10:04
Local clock offset: 1.566 ms
Remote clock offset: 4.028 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.89 Mbit/s
95th percentile per-packet one-way delay: 20.166 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 20.483 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 23.63 Mbit/s
95th percentile per-packet one-way delay: 20.286 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 22.25 Mbit/s
95th percentile per-packet one-way delay: 18.959 ms
Loss rate: 0.86%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-04-10 19:31:23
End at: 2018-04-10 19:31:53
Local clock offset: 1.711 ms
Remote clock offset: -0.759 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 22.418 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.46 Mbit/s
95th percentile per-packet one-way delay: 22.362 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 22.614 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: 22.262 ms
Loss rate: 0.42%
Run 4: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 24.47 Mbps/s)
- Flow 1 egress (mean 24.46 Mbps/s)
- Flow 2 ingress (mean 24.18 Mbps/s)
- Flow 2 egress (mean 24.18 Mbps/s)
- Flow 3 ingress (mean 23.92 Mbps/s)
- Flow 3 egress (mean 23.91 Mbps/s)

![Graph 2: Per-packet one-way delays (ms)](image2.png)

- Flow 1 (95th percentile 22.36 ms)
- Flow 2 (95th percentile 22.61 ms)
- Flow 3 (95th percentile 22.26 ms)
Run 5: Statistics of Sprout

Start at: 2018-04-10 19:53:17
End at: 2018-04-10 19:53:47
Local clock offset: 1.073 ms
Remote clock offset: -3.544 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 22.078 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 22.004 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 21.957 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 22.626 ms
Loss rate: 0.40%
Run 5: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 24.48 Mbit/s)
Flow 1 egress (mean 24.47 Mbit/s)
Flow 2 ingress (mean 24.39 Mbit/s)
Flow 2 egress (mean 24.38 Mbit/s)
Flow 3 ingress (mean 23.91 Mbit/s)
Flow 3 egress (mean 23.90 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 22.00 ms)
Flow 2 (95th percentile 21.96 ms)
Flow 3 (95th percentile 22.63 ms)
Run 6: Statistics of Sprout

Start at: 2018-04-10 20:15:04
End at: 2018-04-10 20:15:34
Local clock offset: 0.861 ms
Remote clock offset: -6.474 ms

# Below is generated by plot.py at 2018-04-11 01:35:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 40.572 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 47.738 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 24.18 Mbit/s
95th percentile per-packet one-way delay: 20.000 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.05 Mbit/s
95th percentile per-packet one-way delay: 21.459 ms
Loss rate: 0.42%
Run 6: Report of Sprout — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, with annotations for mean ingress and egress speeds.]
Run 7: Statistics of Sprout

Start at: 2018-04-10 20:36:47
End at: 2018-04-10 20:37:17
Local clock offset: 1.304 ms
Remote clock offset: -5.399 ms

# Below is generated by plot.py at 2018-04-11 01:35:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.67 Mbit/s
  95th percentile per-packet one-way delay: 21.836 ms
  Loss rate: 0.17%
-- Flow 1:
  Average throughput: 24.60 Mbit/s
  95th percentile per-packet one-way delay: 21.971 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 24.18 Mbit/s
  95th percentile per-packet one-way delay: 21.326 ms
  Loss rate: 0.15%
-- Flow 3:
  Average throughput: 24.22 Mbit/s
  95th percentile per-packet one-way delay: 22.387 ms
  Loss rate: 0.42%
Run 7: Report of Sprout — Data Link

![Graphs showing throughput and per-packet one-way delay for different flows.]
Run 8: Statistics of Sprout

Start at: 2018-04-10 20:58:06
End at: 2018-04-10 20:58:36
Local clock offset: 0.946 ms
Remote clock offset: -3.439 ms

# Below is generated by plot.py at 2018-04-11 01:35:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.77 Mbit/s
95th percentile per-packet one-way delay: 24.131 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 22.675 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 23.85 Mbit/s
95th percentile per-packet one-way delay: 23.923 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 23.70 Mbit/s
95th percentile per-packet one-way delay: 25.344 ms
Loss rate: 0.42%
Run 8: Report of Sprout — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 24.10 Mbit/s)
- Flow 1 egress (mean 24.09 Mbit/s)
- Flow 2 ingress (mean 23.86 Mbit/s)
- Flow 2 egress (mean 23.85 Mbit/s)
- Flow 3 ingress (mean 23.72 Mbit/s)
- Flow 3 egress (mean 23.70 Mbit/s)

![Graph 2: Packet Delay vs Time]

- Flow 1 (95th percentile 22.68 ms)
- Flow 2 (95th percentile 23.92 ms)
- Flow 3 (95th percentile 25.34 ms)
Run 9: Statistics of Sprout

Start at: 2018-04-10 21:19:17
End at: 2018-04-10 21:19:47
Local clock offset: 0.823 ms
Remote clock offset: 1.881 ms

# Below is generated by plot.py at 2018-04-11 01:35:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.85 Mbit/s
95th percentile per-packet one-way delay: 22.808 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 22.526 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 22.869 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 24.15 Mbit/s
95th percentile per-packet one-way delay: 23.908 ms
Loss rate: 0.19%
Run 9: Report of Sprout — Data Link

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

- **Flow 1** ingress (mean 24.64 MB/s) - Flow 1 egress (mean 24.64 MB/s)
- **Flow 2** ingress (mean 24.44 MB/s) - Flow 2 egress (mean 24.44 MB/s)
- **Flow 3** ingress (mean 24.16 MB/s) - Flow 3 egress (mean 24.15 MB/s)

![Graph of packet delay distribution for different flows.](image)

- Flow 1 (95th percentile 22.53 ms)
- Flow 2 (95th percentile 22.67 ms)
- Flow 3 (95th percentile 23.91 ms)
Run 10: Statistics of Sprout

Start at: 2018-04-10 21:40:27  
End at: 2018-04-10 21:40:57  
Local clock offset: 0.254 ms  
Remote clock offset: 3.051 ms

# Below is generated by plot.py at 2018-04-11 01:35:30  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 48.57 Mbit/s  
95th percentile per-packet one-way delay: 21.585 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 24.49 Mbit/s  
95th percentile per-packet one-way delay: 21.483 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 24.23 Mbit/s  
95th percentile per-packet one-way delay: 21.399 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 24.17 Mbit/s  
95th percentile per-packet one-way delay: 22.255 ms  
Loss rate: 0.41%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 18:23:53
End at: 2018-04-10 18:24:23
Local clock offset: -2.065 ms
Remote clock offset: 5.098 ms

# Below is generated by plot.py at 2018-04-11 01:37:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.22 Mbit/s
  95th percentile per-packet one-way delay: 40.621 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 56.43 Mbit/s
  95th percentile per-packet one-way delay: 40.363 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 39.52 Mbit/s
  95th percentile per-packet one-way delay: 40.701 ms
  Loss rate: 0.21%
-- Flow 3:
  Average throughput: 31.69 Mbit/s
  95th percentile per-packet one-way delay: 40.742 ms
  Loss rate: 0.53%
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 18:45:56
End at: 2018-04-10 18:46:26
Local clock offset: -1.6 ms
Remote clock offset: 10.655 ms

# Below is generated by plot.py at 2018-04-11 01:37:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.94 Mbit/s
95th percentile per-packet one-way delay: 48.008 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.59 Mbit/s
95th percentile per-packet one-way delay: 47.785 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 29.850 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 48.808 ms
Loss rate: 0.61%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 19:08:11
End at: 2018-04-10 19:08:41
Local clock offset: 1.404 ms
Remote clock offset: 4.092 ms

# Below is generated by plot.py at 2018-04-11 01:37:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.76 Mbit/s
95th percentile per-packet one-way delay: 50.295 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 33.249 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 51.515 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 52.250 ms
Loss rate: 0.67%
Run 3: Report of TaoVA-100x — Data Link

![Graph 1](image1)

- **Flow 1 ingress (mean 62.62 Mbit/s)**
- **Flow 1 egress (mean 62.62 Mbit/s)**
- **Flow 2 ingress (mean 36.12 Mbit/s)**
- **Flow 2 egress (mean 36.14 Mbit/s)**
- **Flow 3 ingress (mean 24.47 Mbit/s)**
- **Flow 3 egress (mean 24.42 Mbit/s)**

![Graph 2](image2)

- **Flow 1 (95th percentile 31.25 ms)**
- **Flow 2 (95th percentile 51.52 ms)**
- **Flow 3 (95th percentile 52.25 ms)**

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Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 19:30:07
End at: 2018-04-10 19:30:37
Local clock offset: 1.152 ms
Remote clock offset: -0.525 ms

# Below is generated by plot.py at 2018-04-11 01:37:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.47 Mbit/s
  95th percentile per-packet one-way delay: 42.856 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 57.60 Mbit/s
  95th percentile per-packet one-way delay: 42.519 ms
  Loss rate: 0.09%
-- Flow 2:
  Average throughput: 39.98 Mbit/s
  95th percentile per-packet one-way delay: 42.877 ms
  Loss rate: 0.22%
-- Flow 3:
  Average throughput: 31.13 Mbit/s
  95th percentile per-packet one-way delay: 43.062 ms
  Loss rate: 0.55%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 19:51:59
End at: 2018-04-10 19:52:29
Local clock offset: 1.622 ms
Remote clock offset: -2.766 ms

# Below is generated by plot.py at 2018-04-11 01:38:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 50.293 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 55.04 Mbit/s
95th percentile per-packet one-way delay: 49.701 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 35.89 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 33.170 ms
Loss rate: 0.46%
Run 5: Report of TaoVA-100x — Data Link

![Graph 1: Throughput vs Time]

- Flow 1 ingress (mean 55.00 Mbit/s)
- Flow 1 egress (mean 55.04 Mbit/s)
- Flow 2 ingress (mean 35.92 Mbit/s)
- Flow 2 egress (mean 35.89 Mbit/s)
- Flow 3 ingress (mean 46.96 Mbit/s)
- Flow 3 egress (mean 46.92 Mbit/s)

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

- Flow 1 (95th percentile 49.70 ms)
- Flow 2 (95th percentile 51.67 ms)
- Flow 3 (95th percentile 33.17 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 20:13:45
End at: 2018-04-10 20:14:15
Local clock offset: 1.259 ms
Remote clock offset: -5.926 ms

# Below is generated by plot.py at 2018-04-11 01:38:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.42 Mbit/s
  95th percentile per-packet one-way delay: 49.454 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 55.14 Mbit/s
  95th percentile per-packet one-way delay: 49.065 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 35.88 Mbit/s
  95th percentile per-packet one-way delay: 50.506 ms
  Loss rate: 0.21%
-- Flow 3:
  Average throughput: 46.58 Mbit/s
  95th percentile per-packet one-way delay: 31.697 ms
  Loss rate: 0.33%
Run 6: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 55.10 Mbit/s)
- Flow 2 ingress (mean 35.87 Mbit/s)
- Flow 3 ingress (mean 46.62 Mbit/s)
- Flow 1 egress (mean 55.14 Mbit/s)
- Flow 2 egress (mean 35.88 Mbit/s)
- Flow 3 egress (mean 46.58 Mbit/s)

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

- Flow 1 (95th percentile 49.06 ms)
- Flow 2 (95th percentile 50.51 ms)
- Flow 3 (95th percentile 31.70 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 20:35:29
End at: 2018-04-10 20:35:59
Local clock offset: 0.344 ms
Remote clock offset: -5.714 ms

# Below is generated by plot.py at 2018-04-11 01:38:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 41.370 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 40.841 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 41.432 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 41.644 ms
Loss rate: 0.57%
Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 20:56:51
End at: 2018-04-10 20:57:21
Local clock offset: 0.446 ms
Remote clock offset: -2.385 ms

# Below is generated by plot.py at 2018-04-11 01:38:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 48.971 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 31.340 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 35.96 Mbit/s
95th percentile per-packet one-way delay: 50.270 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 50.586 ms
Loss rate: 0.58%
Run 8: Report of TaoVA-100x — Data Link
Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 21:18:03
End at: 2018-04-10 21:18:33
Local clock offset: 0.397 ms
Remote clock offset: 3.468 ms

# Below is generated by plot.py at 2018-04-11 01:39:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.05 Mbit/s
  95th percentile per-packet one-way delay: 41.029 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 57.10 Mbit/s
  95th percentile per-packet one-way delay: 40.779 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 39.76 Mbit/s
  95th percentile per-packet one-way delay: 41.108 ms
  Loss rate: 0.22%
-- Flow 3:
  Average throughput: 31.67 Mbit/s
  95th percentile per-packet one-way delay: 41.074 ms
  Loss rate: 0.55%
Run 10: Statistics of TaoVA-100x

End at: 2018-04-10 21:39:43
Local clock offset: -0.228 ms
Remote clock offset: 5.023 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.72 Mbit/s
95th percentile per-packet one-way delay: 40.440 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 57.76 Mbit/s
95th percentile per-packet one-way delay: 40.411 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.78 Mbit/s
95th percentile per-packet one-way delay: 40.438 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 40.501 ms
Loss rate: 0.55%
Run 10: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 57.74 Mbit/s)
- Flow 1 egress (mean 57.74 Mbit/s)
- Flow 2 ingress (mean 39.79 Mbit/s)
- Flow 2 egress (mean 39.78 Mbit/s)
- Flow 3 ingress (mean 31.70 Mbit/s)
- Flow 3 egress (mean 31.66 Mbit/s)

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

- Flow 1 (95th percentile 40.41 ms)
- Flow 2 (95th percentile 40.44 ms)
- Flow 3 (95th percentile 40.50 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 18:18:31
End at: 2018-04-10 18:19:01
Local clock offset: -2.591 ms
Remote clock offset: 2.466 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.99 Mbit/s
  95th percentile per-packet one-way delay: 37.067 ms
  Loss rate: 0.12%
-- Flow 1:
  Average throughput: 65.25 Mbit/s
  95th percentile per-packet one-way delay: 34.986 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 28.71 Mbit/s
  95th percentile per-packet one-way delay: 42.534 ms
  Loss rate: 0.06%
-- Flow 3:
  Average throughput: 38.28 Mbit/s
  95th percentile per-packet one-way delay: 45.827 ms
  Loss rate: 0.25%
Run 1: Report of TCP Vegas — Data Link

Throughput (Mbps)

Time (s)

[Graph showing throughput over time, with multiple lines representing different flows and their ingress and egress speeds.]

Per-packet one-way delay (ms)

Time (s)

[Graph showing per-packet one-way delay over time, with different lines indicating different flows.]
Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 18:40:59
End at: 2018-04-10 18:41:29
Local clock offset: -3.47 ms
Remote clock offset: 8.474 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 46.232 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 59.52 Mbit/s
95th percentile per-packet one-way delay: 46.254 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 40.42 Mbit/s
95th percentile per-packet one-way delay: 34.511 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 32.34 Mbit/s
95th percentile per-packet one-way delay: 46.304 ms
Loss rate: 0.45%
Run 2: Report of TCP Vegas — Data Link

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

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 59.51 Mbit/s)  Flow 1 egress (mean 59.52 Mbit/s)
Flow 2 ingress (mean 40.41 Mbit/s)  Flow 2 egress (mean 40.42 Mbit/s)
Flow 3 ingress (mean 32.38 Mbit/s)  Flow 3 egress (mean 32.34 Mbit/s)

Delay (ms)

Time (s)

Flow 1 (95th percentile 46.25 ms)  Flow 2 (95th percentile 34.51 ms)  Flow 3 (95th percentile 46.30 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 19:03:14
End at: 2018-04-10 19:03:44
Local clock offset: 1.357 ms
Remote clock offset: 4.315 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 32.856 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 32.517 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 17.66 Mbit/s
95th percentile per-packet one-way delay: 32.012 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 34.985 ms
Loss rate: 0.50%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 19:25:14
End at: 2018-04-10 19:25:44
Local clock offset: 1.241 ms
Remote clock offset: 2.057 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.09 Mbit/s
  95th percentile per-packet one-way delay: 36.954 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 63.32 Mbit/s
  95th percentile per-packet one-way delay: 32.636 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 37.14 Mbit/s
  95th percentile per-packet one-way delay: 37.148 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 27.30 Mbit/s
  95th percentile per-packet one-way delay: 18.470 ms
  Loss rate: 0.24%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 19:47:04
End at: 2018-04-10 19:47:34
Local clock offset: 1.58 ms
Remote clock offset: -3.08 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 39.381 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 38.071 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 40.045 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 32.98 Mbit/s
95th percentile per-packet one-way delay: 41.237 ms
Loss rate: 0.60%
Run 5: Report of TCP Vegas — Data Link

![Graph 1: Throughput vs Time]

![Graph 2: Latency vs Time]

- Flow 1 ingress (mean 65.03 Mbit/s)
- Flow 1 egress (mean 65.08 Mbit/s)
- Flow 2 ingress (mean 31.70 Mbit/s)
- Flow 2 egress (mean 31.74 Mbit/s)
- Flow 3 ingress (mean 33.01 Mbit/s)
- Flow 3 egress (mean 32.98 Mbit/s)

- Flow 1 (95th percentile 38.07 ms)
- Flow 2 (95th percentile 40.05 ms)
- Flow 3 (95th percentile 41.24 ms)
Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 20:08:53
End at: 2018-04-10 20:09:23
Local clock offset: 1.203 ms
Remote clock offset: -6.625 ms

# Below is generated by plot.py at 2018-04-11 01:39:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.10 Mbit/s
  95th percentile per-packet one-way delay: 37.125 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 56.65 Mbit/s
  95th percentile per-packet one-way delay: 25.702 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 36.67 Mbit/s
  95th percentile per-packet one-way delay: 26.698 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 48.36 Mbit/s
  95th percentile per-packet one-way delay: 37.324 ms
  Loss rate: 0.28%
Run 6: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 56.62 Mbit/s)
- Flow 1 egress (mean 56.65 Mbit/s)
- Flow 2 ingress (mean 36.66 Mbit/s)
- Flow 2 egress (mean 36.67 Mbit/s)
- Flow 3 ingress (mean 48.37 Mbit/s)
- Flow 3 egress (mean 48.36 Mbit/s)

![Graph showing PER (packet error rate) over time for different flows.](image)

- Flow 1 (95th percentile 25.70 ms)
- Flow 2 (95th percentile 26.70 ms)
- Flow 3 (95th percentile 37.32 ms)
Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 20:30:33
End at: 2018-04-10 20:31:03
Local clock offset: 0.565 ms
Remote clock offset: -7.668 ms

# Below is generated by plot.py at 2018-04-11 01:40:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 36.388 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 36.407 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 36.346 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 23.305 ms
Loss rate: 6.48%
Run 7: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 64.84 Mbps)
- Flow 1 egress (mean 64.82 Mbps)
- Flow 2 ingress (mean 48.30 Mbps)
- Flow 2 egress (mean 48.29 Mbps)
- Flow 3 ingress (mean 10.85 Mbps)
- Flow 3 egress (mean 10.71 Mbps)

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

- Flow 1 (95th percentile 36.41 ms)
- Flow 2 (95th percentile 36.35 ms)
- Flow 3 (95th percentile 23.30 ms)
Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 20:52:06
End at: 2018-04-10 20:52:36
Local clock offset: 0.536 ms
Remote clock offset: -3.558 ms

# Below is generated by plot.py at 2018-04-11 01:40:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.15 Mbit/s
95th percentile per-packet one-way delay: 59.202 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 59.160 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 36.558 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 59.503 ms
Loss rate: 0.74%
Run 8: Report of TCP Vegas — Data Link

![Graph showing network performance metrics over time for flows 1, 2, and 3.]
Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 21:13:18
End at: 2018-04-10 21:13:48
Local clock offset: 0.404 ms
Remote clock offset: 1.439 ms

# Below is generated by plot.py at 2018-04-11 01:41:03
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.13 Mbit/s
  95th percentile per-packet one-way delay: 48.573 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 61.44 Mbit/s
  95th percentile per-packet one-way delay: 48.255 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 29.60 Mbit/s
  95th percentile per-packet one-way delay: 51.262 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 48.26 Mbit/s
  95th percentile per-packet one-way delay: 36.644 ms
  Loss rate: 0.28%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 21:34:29
End at: 2018-04-10 21:34:59
Local clock offset: -0.123 ms
Remote clock offset: 5.005 ms

# Below is generated by plot.py at 2018-04-11 01:41:04
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 97.16 Mbit/s
   95th percentile per-packet one-way delay: 36.464 ms
   Loss rate: 0.13%
   -- Flow 1:
   Average throughput: 64.85 Mbit/s
   95th percentile per-packet one-way delay: 36.459 ms
   Loss rate: 0.12%
   -- Flow 2:
   Average throughput: 32.87 Mbit/s
   95th percentile per-packet one-way delay: 36.506 ms
   Loss rate: 0.06%
   -- Flow 3:
   Average throughput: 31.49 Mbit/s
   95th percentile per-packet one-way delay: 17.743 ms
   Loss rate: 0.33%
Run 10: Report of TCP Vegas — Data Link
Run 1: Statistics of Verus

Start at: 2018-04-10 18:09:50
End at: 2018-04-10 18:10:20
Local clock offset: -2.213 ms
Remote clock offset: -1.644 ms

# Below is generated by plot.py at 2018-04-11 01:41:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 55.562 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 35.228 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 44.27 Mbit/s
95th percentile per-packet one-way delay: 57.205 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 21.80 Mbit/s
95th percentile per-packet one-way delay: 57.852 ms
Loss rate: 0.46%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-04-10 18:32:38
End at: 2018-04-10 18:33:08
Local clock offset: -2.205 ms
Remote clock offset: 7.516 ms

# Below is generated by plot.py at 2018-04-11 01:41:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 56.978 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 54.49 Mbit/s
95th percentile per-packet one-way delay: 56.825 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 49.68 Mbit/s
95th percentile per-packet one-way delay: 34.952 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 25.70 Mbit/s
95th percentile per-packet one-way delay: 57.514 ms
Loss rate: 0.64%
Run 2: Report of Verus — Data Link
Run 3: Statistics of Verus

Start at: 2018-04-10 18:54:45
End at: 2018-04-10 18:55:15
Local clock offset: -0.037 ms
Remote clock offset: 7.147 ms

# Below is generated by plot.py at 2018-04-11 01:41:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 55.328 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 54.11 Mbit/s
95th percentile per-packet one-way delay: 55.237 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 48.55 Mbit/s
95th percentile per-packet one-way delay: 33.222 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 29.35 Mbit/s
95th percentile per-packet one-way delay: 55.708 ms
Loss rate: 0.65%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-04-10 19:16:54
End at: 2018-04-10 19:17:24
Local clock offset: 2.031 ms
Remote clock offset: 3.667 ms

# Below is generated by plot.py at 2018-04-11 01:41:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 96.38 Mbit/s
  95th percentile per-packet one-way delay: 60.147 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 65.64 Mbit/s
  95th percentile per-packet one-way delay: 37.931 ms
  Loss rate: 0.18%
-- Flow 2:
  Average throughput: 35.25 Mbit/s
  95th percentile per-packet one-way delay: 60.341 ms
  Loss rate: 0.03%
-- Flow 3:
  Average throughput: 23.59 Mbit/s
  95th percentile per-packet one-way delay: 60.560 ms
  Loss rate: 0.00%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-04-10 19:38:34
End at: 2018-04-10 19:39:04
Local clock offset: 1.332 ms
Remote clock offset: -1.713 ms

# Below is generated by plot.py at 2018-04-11 01:42:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.43 Mbit/s
  95th percentile per-packet one-way delay: 48.569 ms
  Loss rate: 0.21%
-- Flow 1:
  Average throughput: 55.57 Mbit/s
  95th percentile per-packet one-way delay: 48.470 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 44.25 Mbit/s
  95th percentile per-packet one-way delay: 48.641 ms
  Loss rate: 0.22%
-- Flow 3:
  Average throughput: 31.41 Mbit/s
  95th percentile per-packet one-way delay: 48.597 ms
  Loss rate: 0.63%
Run 6: Statistics of Verus

Start at: 2018-04-10 20:00:29
End at: 2018-04-10 20:00:59
Local clock offset: 1.277 ms
Remote clock offset: -4.694 ms

# Below is generated by plot.py at 2018-04-11 01:42:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.46 Mbit/s
95th percentile per-packet one-way delay: 57.283 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 64.61 Mbit/s
95th percentile per-packet one-way delay: 36.338 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 38.36 Mbit/s
95th percentile per-packet one-way delay: 58.562 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 19.17 Mbit/s
95th percentile per-packet one-way delay: 58.916 ms
Loss rate: 0.93%
Run 6: Report of Verus — Data Link

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

- Flow 1 ingestion (mean 64.61 Mbit/s)
- Flow 2 ingestion (mean 38.36 Mbit/s)
- Flow 3 ingestion (mean 19.21 Mbit/s)
- Flow 1 egress (mean 64.61 Mbit/s)
- Flow 2 egress (mean 38.36 Mbit/s)
- Flow 3 egress (mean 19.17 Mbit/s)

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

- Flow 1 (95th percentile 36.34 ms)
- Flow 2 (95th percentile 58.56 ms)
- Flow 3 (95th percentile 58.92 ms)
Run 7: Statistics of Verus

Start at: 2018-04-10 20:22:11
End at: 2018-04-10 20:22:41
Local clock offset: 1.271 ms
Remote clock offset: -7.575 ms

# Below is generated by plot.py at 2018-04-11 01:42:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.28 Mbit/s
95th percentile per-packet one-way delay: 58.517 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 58.162 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 58.863 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 36.613 ms
Loss rate: 0.50%
Run 7: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 55.18 Mbps)**
- **Flow 1 egress (mean 55.22 Mbps)**
- **Flow 2 ingress (mean 38.06 Mbps)**
- **Flow 2 egress (mean 38.08 Mbps)**
- **Flow 3 ingress (mean 47.58 Mbps)**
- **Flow 3 egress (mean 47.52 Mbps)**
Run 8: Statistics of Verus

Start at: 2018-04-10 20:43:57
End at: 2018-04-10 20:44:27
Local clock offset: 1.276 ms
Remote clock offset: -3.528 ms

# Below is generated by plot.py at 2018-04-11 01:42:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.37 Mbit/s
95th percentile per-packet one-way delay: 55.773 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 60.99 Mbit/s
95th percentile per-packet one-way delay: 36.439 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 44.19 Mbit/s
95th percentile per-packet one-way delay: 58.027 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 18.06 Mbit/s
95th percentile per-packet one-way delay: 58.925 ms
Loss rate: 0.70%
Run 9: Statistics of Verus

Start at: 2018-04-10 21:05:08
End at: 2018-04-10 21:05:38
Local clock offset: 0.775 ms
Remote clock offset: -1.748 ms

# Below is generated by plot.py at 2018-04-11 01:42:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.76 Mbit/s
  95th percentile per-packet one-way delay: 57.656 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 55.15 Mbit/s
  95th percentile per-packet one-way delay: 57.085 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 48.90 Mbit/s
  95th percentile per-packet one-way delay: 36.610 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 24.36 Mbit/s
  95th percentile per-packet one-way delay: 59.288 ms
  Loss rate: 0.77%
Run 9: Report of Verus — Data Link

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

- Flow 1 ingress (mean 55.13 Mbps)
- Flow 1 egress (mean 55.15 Mbps)
- Flow 2 ingress (mean 48.92 Mbps)
- Flow 2 egress (mean 48.90 Mbps)
- Flow 3 ingress (mean 24.37 Mbps)
- Flow 3 egress (mean 24.36 Mbps)

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

- Flow 1 (95th percentile 57.09 ms)
- Flow 2 (95th percentile 36.61 ms)
- Flow 3 (95th percentile 59.29 ms)
Run 10: Statistics of Verus

Start at: 2018-04-10 21:26:22
End at: 2018-04-10 21:26:52
Local clock offset: -0.213 ms
Remote clock offset: 3.613 ms

# Below is generated by plot.py at 2018-04-11 01:42:39
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.67 Mbit/s
  95th percentile per-packet one-way delay: 55.951 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 55.84 Mbit/s
  95th percentile per-packet one-way delay: 55.258 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 35.55 Mbit/s
  95th percentile per-packet one-way delay: 58.224 ms
  Loss rate: 0.30%
-- Flow 3:
  Average throughput: 49.63 Mbit/s
  95th percentile per-packet one-way delay: 36.354 ms
  Loss rate: 0.00%
Run 10: Report of Verus — Data Link
Run 1: Statistics of Copa

Start at: 2018-04-10 18:27:34  
End at: 2018-04-10 18:28:04  
Local clock offset: -2.584 ms  
Remote clock offset: 5.654 ms  

# Below is generated by plot.py at 2018-04-11 01:43:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.29 Mbit/s  
95th percentile per-packet one-way delay: 19.694 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 54.38 Mbit/s  
95th percentile per-packet one-way delay: 19.147 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 43.62 Mbit/s  
95th percentile per-packet one-way delay: 18.737 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 23.76 Mbit/s  
95th percentile per-packet one-way delay: 21.923 ms  
Loss rate: 0.22%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-04-10 18:49:36
End at: 2018-04-10 18:50:06
Local clock offset: -1.273 ms
Remote clock offset: 8.835 ms

# Below is generated by plot.py at 2018-04-11 01:43:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.84 Mbit/s
95th percentile per-packet one-way delay: 15.513 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 54.96 Mbit/s
95th percentile per-packet one-way delay: 14.666 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 16.561 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 33.59 Mbit/s
95th percentile per-packet one-way delay: 16.193 ms
Loss rate: 0.32%
Run 2: Report of Copa — Data Link

![Graph 1: Throughput (Mbps)]

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

Start at: 2018-04-10 19:11:47
End at: 2018-04-10 19:12:17
Local clock offset: 0.877 ms
Remote clock offset: 3.55 ms

# Below is generated by plot.py at 2018-04-11 01:44:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.78 Mbit/s
95th percentile per-packet one-way delay: 16.856 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 55.38 Mbit/s
95th percentile per-packet one-way delay: 16.342 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 17.444 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 17.641 ms
Loss rate: 1.24%
Run 3: Report of Copa — Data Link

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

- Flow 1 ingress (mean 55.44 Mbit/s)
- Flow 1 egress (mean 55.38 Mbit/s)
- Flow 2 ingress (mean 35.48 Mbit/s)
- Flow 2 egress (mean 35.38 Mbit/s)
- Flow 3 ingress (mean 20.91 Mbit/s)
- Flow 3 egress (mean 20.71 Mbit/s)
Run 4: Statistics of Copa

Start at: 2018-04-10 19:33:35
End at: 2018-04-10 19:34:06
Local clock offset: 1.57 ms
Remote clock offset: -1.306 ms

# Below is generated by plot.py at 2018-04-11 01:44:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 20.510 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 19.098 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 21.613 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 23.151 ms
Loss rate: 0.35%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-04-10 19:55:30
End at: 2018-04-10 19:56:00
Local clock offset: 1.425 ms
Remote clock offset: -3.794 ms

# Below is generated by plot.py at 2018-04-11 01:45:06
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 92.05 Mbit/s
   95th percentile per-packet one-way delay: 19.987 ms
   Loss rate: 0.11%
   -- Flow 1:
      Average throughput: 55.40 Mbit/s
      95th percentile per-packet one-way delay: 18.454 ms
      Loss rate: 0.05%
   -- Flow 2:
      Average throughput: 38.64 Mbit/s
      95th percentile per-packet one-way delay: 21.721 ms
      Loss rate: 0.14%
   -- Flow 3:
      Average throughput: 33.09 Mbit/s
      95th percentile per-packet one-way delay: 22.119 ms
      Loss rate: 0.33%
Run 5: Report of Copa — Data Link

![Graph 1](chart1.png)

- Flow 1 ingress (mean 55.38 Mbit/s)
- Flow 1 egress (mean 55.40 Mbit/s)
- Flow 2 ingress (mean 38.64 Mbit/s)
- Flow 2 egress (mean 38.64 Mbit/s)
- Flow 3 ingress (mean 33.11 Mbit/s)
- Flow 3 egress (mean 33.09 Mbit/s)

![Graph 2](chart2.png)

- Flow 1 (95th percentile 18.45 ms)
- Flow 2 (95th percentile 21.72 ms)
- Flow 3 (95th percentile 22.12 ms)
Run 6: Statistics of Copa

Start at: 2018-04-10 20:17:18
End at: 2018-04-10 20:17:48
Local clock offset: 1.393 ms
Remote clock offset: -7.477 ms

# Below is generated by plot.py at 2018-04-11 01:45:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 19.533 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 19.243 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 19.205 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 21.584 ms
Loss rate: 0.21%
Run 6: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 57.14 Mbit/s)**
- **Flow 1 egress (mean 57.16 Mbit/s)**
- **Flow 2 ingress (mean 39.26 Mbit/s)**
- **Flow 2 egress (mean 39.27 Mbit/s)**
- **Flow 3 ingress (mean 26.85 Mbit/s)**
- **Flow 3 egress (mean 26.86 Mbit/s)**
Run 7: Statistics of Copa

Start at: 2018-04-10 20:39:00
End at: 2018-04-10 20:39:30
Local clock offset: 1.136 ms
Remote clock offset: -5.103 ms

# Below is generated by plot.py at 2018-04-11 01:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.43 Mbit/s
95th percentile per-packet one-way delay: 20.540 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 19.826 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 21.968 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 33.04 Mbit/s
95th percentile per-packet one-way delay: 20.601 ms
Loss rate: 0.29%
Run 7: Report of Copa — Data Link
Run 8: Statistics of Copa

Start at: 2018-04-10 21:00:18
End at: 2018-04-10 21:00:48
Local clock offset: 1.335 ms
Remote clock offset: -2.784 ms

# Below is generated by plot.py at 2018-04-11 01:45:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.51 Mbit/s
95th percentile per-packet one-way delay: 18.820 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 56.27 Mbit/s
95th percentile per-packet one-way delay: 17.998 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.57 Mbit/s
95th percentile per-packet one-way delay: 19.474 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 22.093 ms
Loss rate: 0.19%
Run 8: Report of Copa — Data Link

![Graph showing throughput and packet delay over time for three different flows: Flow 1, Flow 2, and Flow 3. The graphs display the mean throughput and 95th percentile delay for each flow.]

- Flow 1 ingress (mean 56.27 Mbit/s)
- Flow 1 egress (mean 56.27 Mbit/s)
- Flow 2 ingress (mean 37.35 Mbit/s)
- Flow 2 egress (mean 37.57 Mbit/s)
- Flow 3 ingress (mean 27.87 Mbit/s)
- Flow 3 egress (mean 27.69 Mbit/s)

![Graph showing packet delay over time for three different flows: Flow 1, Flow 2, and Flow 3. The graphs display the 95th percentile delay for each flow.]

- Flow 1 (95th percentile 18.00 ms)
- Flow 2 (95th percentile 19.47 ms)
- Flow 3 (95th percentile 22.09 ms)
Run 9: Statistics of Copa

Start at: 2018-04-10 21:21:30
End at: 2018-04-10 21:22:00
Local clock offset: 0.721 ms
Remote clock offset: 3.008 ms

# Below is generated by plot.py at 2018-04-11 01:46:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 18.571 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 57.58 Mbit/s
95th percentile per-packet one-way delay: 18.206 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.97 Mbit/s
95th percentile per-packet one-way delay: 19.992 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 15.756 ms
Loss rate: 0.15%
Run 10: Statistics of Copa

Start at: 2018-04-10 21:42:41
End at: 2018-04-10 21:43:11
Local clock offset: 0.663 ms
Remote clock offset: 1.922 ms

# Below is generated by plot.py at 2018-04-11 01:46:41
# Datalink statistics

-- Total of 3 flows:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 20.245 ms
Loss rate: 0.10%

-- Flow 1:
Average throughput: 58.67 Mbit/s
95th percentile per-packet one-way delay: 19.848 ms
Loss rate: 0.05%

-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 20.051 ms
Loss rate: 0.10%

-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 22.068 ms
Loss rate: 0.38%
Run 10: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 58.65 Mbit/s)
- **Flow 1 egress** (mean 58.67 Mbit/s)
- **Flow 2 ingress** (mean 35.83 Mbit/s)
- **Flow 2 egress** (mean 35.84 Mbit/s)
- **Flow 3 ingress** (mean 31.80 Mbit/s)
- **Flow 3 egress** (mean 31.84 Mbit/s)

![Graph showing packet end-to-end delay for different flows.]

- **Flow 1 (95th percentile 19.85 ms)**
- **Flow 2 (95th percentile 20.05 ms)**
- **Flow 3 (95th percentile 22.07 ms)**
Run 1: Statistics of FillP

Start at: 2018-04-10 18:11:12
End at: 2018-04-10 18:11:42
Local clock offset: -2.25 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-04-11 01:46:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.41 Mbit/s
  95th percentile per-packet one-way delay: 49.540 ms
  Loss rate: 0.15%
-- Flow 1:
  Average throughput: 62.66 Mbit/s
  95th percentile per-packet one-way delay: 30.910 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 35.45 Mbit/s
  95th percentile per-packet one-way delay: 51.258 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 24.68 Mbit/s
  95th percentile per-packet one-way delay: 52.635 ms
  Loss rate: 0.66%
Run 1: Report of FillP — Data Link

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

- Flow 1 ingress (mean 62.64 Mbit/s)
- Flow 1 egress (mean 62.66 Mbit/s)
- Flow 2 ingress (mean 35.49 Mbit/s)
- Flow 2 egress (mean 35.45 Mbit/s)
- Flow 3 ingress (mean 24.74 Mbit/s)
- Flow 3 egress (mean 24.68 Mbit/s)

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

- Flow 1 (95th percentile 30.91 ms)
- Flow 2 (95th percentile 51.26 ms)
- Flow 3 (95th percentile 52.63 ms)
Run 2: Statistics of FillP

Start at: 2018-04-10 18:33:54
End at: 2018-04-10 18:34:24
Local clock offset: -2.574 ms
Remote clock offset: 7.323 ms

# Below is generated by plot.py at 2018-04-11 01:46:41
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.40 Mbit/s
  95th percentile per-packet one-way delay: 33.214 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 50.22 Mbit/s
  95th percentile per-packet one-way delay: 32.841 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 45.29 Mbit/s
  95th percentile per-packet one-way delay: 25.189 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 42.60 Mbit/s
  95th percentile per-packet one-way delay: 49.132 ms
  Loss rate: 0.45%
Run 2: Report of FillP — Data Link

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

Start at: 2018-04-10 18:55:59
End at: 2018-04-10 18:56:29
Local clock offset: -0.059 ms
Remote clock offset: 5.555 ms

# Below is generated by plot.py at 2018-04-11 01:46:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 31.179 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 24.960 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.92 Mbit/s
95th percentile per-packet one-way delay: 32.007 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 28.404 ms
Loss rate: 0.26%
Run 3: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

0 5 10 15 20 25 30

Flow 1 ingress (mean 33.77 Mbit/s)
Flow 1 egress (mean 33.79 Mbit/s)
Flow 2 ingress (mean 64.90 Mbit/s)
Flow 2 egress (mean 64.92 Mbit/s)
Flow 3 ingress (mean 44.47 Mbit/s)
Flow 3 egress (mean 44.46 Mbit/s)

Per packet one-way delay [ms]

Time (s)

0 5 10 15 20 25 30

Flow 1 (95th percentile 24.96 ms)
Flow 2 (95th percentile 32.01 ms)
Flow 3 (95th percentile 28.40 ms)
Run 4: Statistics of FillP

Start at: 2018-04-10 19:18:11
End at: 2018-04-10 19:18:41
Local clock offset: 1.347 ms
Remote clock offset: 3.558 ms

# Below is generated by plot.py at 2018-04-11 01:46:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 35.153 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 34.995 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 26.73 Mbit/s
95th percentile per-packet one-way delay: 50.081 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 73.19 Mbit/s
95th percentile per-packet one-way delay: 26.507 ms
Loss rate: 0.34%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2018-04-10 19:39:49
End at: 2018-04-10 19:40:19
Local clock offset: 1.509 ms
Remote clock offset: -2.75 ms

# Below is generated by plot.py at 2018-04-11 01:46:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.31 Mbit/s
  95th percentile per-packet one-way delay: 54.291 ms
  Loss rate: 0.16%
  -- Flow 1:
    Average throughput: 55.24 Mbit/s
    95th percentile per-packet one-way delay: 53.902 ms
    Loss rate: 0.08%
  -- Flow 2:
    Average throughput: 46.50 Mbit/s
    95th percentile per-packet one-way delay: 35.474 ms
    Loss rate: 0.14%
  -- Flow 3:
    Average throughput: 24.62 Mbit/s
    95th percentile per-packet one-way delay: 57.009 ms
    Loss rate: 0.75%
Run 5: Report of FillP — Data Link

- Throughput (Mbps/s)
- Time (s)
- Flow 1 ingress (mean 55.22 Mbps/s)
- Flow 1 egress (mean 55.24 Mbps/s)
- Flow 2 ingress (mean 46.51 Mbps/s)
- Flow 2 egress (mean 46.50 Mbps/s)
- Flow 3 ingress (mean 24.71 Mbps/s)
- Flow 3 egress (mean 24.62 Mbps/s)

- Per packet one way delay (ms)
- Flow 1 (95th percentile 53.90 ms)
- Flow 2 (95th percentile 35.47 ms)
- Flow 3 (95th percentile 57.01 ms)
Run 6: Statistics of FillP

Start at: 2018-04-10 20:01:46
End at: 2018-04-10 20:02:16
Local clock offset: 0.783 ms
Remote clock offset: -4.86 ms

# Below is generated by plot.py at 2018-04-11 01:46:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 34.453 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 33.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 34.952 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 38.621 ms
Loss rate: 0.38%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Start at: 2018-04-10 20:23:24
End at: 2018-04-10 20:23:54
Local clock offset: 0.956 ms
Remote clock offset: -7.511 ms

# Below is generated by plot.py at 2018-04-11 01:47:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.29 Mbit/s
  95th percentile per-packet one-way delay: 34.053 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 49.55 Mbit/s
  95th percentile per-packet one-way delay: 33.766 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 45.33 Mbit/s
  95th percentile per-packet one-way delay: 26.203 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 44.15 Mbit/s
  95th percentile per-packet one-way delay: 48.004 ms
  Loss rate: 0.41%
Run 7: Report of FillP — Data Link

[Graph showing throughput in Mbps over time for different flows with annotations for mean throughput and 95th percentile delay.]

Flow 1 ingress (mean 49.50 Mbps) — Flow 1 egress (mean 49.55 Mbps)
Flow 2 ingress (mean 45.34 Mbps) — Flow 2 egress (mean 45.33 Mbps)
Flow 3 ingress (mean 44.14 Mbps) — Flow 3 egress (mean 44.15 Mbps)
Run 8: Statistics of FillP

Start at: 2018-04-10 20:45:09
End at: 2018-04-10 20:45:39
Local clock offset: 0.722 ms
Remote clock offset: -3.398 ms

# Below is generated by plot.py at 2018-04-11 01:48:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 53.646 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 50.77 Mbit/s
95th percentile per-packet one-way delay: 58.413 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.20 Mbit/s
95th percentile per-packet one-way delay: 25.876 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 43.46 Mbit/s
95th percentile per-packet one-way delay: 49.020 ms
Loss rate: 0.50%
Run 8: Report of FillP — Data Link

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**Throughput (Mbps)**

- Flow 1 ingress (mean 50.69 Mbps)
- Flow 1 egress (mean 50.77 Mbps)
- Flow 2 ingress (mean 45.21 Mbps)
- Flow 2 egress (mean 45.20 Mbps)
- Flow 3 ingress (mean 43.44 Mbps)
- Flow 3 egress (mean 43.46 Mbps)

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

- Flow 1 (95th percentile 58.41 ms)
- Flow 2 (95th percentile 25.88 ms)
- Flow 3 (95th percentile 49.02 ms)
Run 9: Statistics of FillP

Start at: 2018-04-10 21:06:22
End at: 2018-04-10 21:06:52
Local clock offset: 0.851 ms
Remote clock offset: -2.088 ms

# Below is generated by plot.py at 2018-04-11 01:48:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 45.053 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 44.243 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 45.320 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 45.860 ms
Loss rate: 0.51%
Run 9: Report of FillP — Data Link
Run 10: Statistics of FillP

Start at: 2018-04-10 21:27:35
End at: 2018-04-10 21:28:05
Local clock offset: -0.532 ms
Remote clock offset: 3.061 ms

# Below is generated by plot.py at 2018-04-11 01:48:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 35.443 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 34.932 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.24 Mbit/s
95th percentile per-packet one-way delay: 26.957 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 42.33 Mbit/s
95th percentile per-packet one-way delay: 52.274 ms
Loss rate: 0.53%
Run 10: Report of FillP — Data Link
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 18:30:06
End at: 2018-04-10 18:30:36
Local clock offset: -2.74 ms
Remote clock offset: 6.254 ms

# Below is generated by plot.py at 2018-04-11 01:48:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.56 Mbit/s
  95th percentile per-packet one-way delay: 18.989 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 19.38 Mbit/s
  95th percentile per-packet one-way delay: 20.639 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 66.05 Mbit/s
  95th percentile per-packet one-way delay: 17.622 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 43.71 Mbit/s
  95th percentile per-packet one-way delay: 19.085 ms
  Loss rate: 0.28%
Run 1: Report of Indigo-1-32 — Data Link

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

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

Start at: 2018-04-10 18:52:12
End at: 2018-04-10 18:52:42
Local clock offset: -0.345 ms
Remote clock offset: 6.97 ms

# Below is generated by plot.py at 2018-04-11 01:48:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.00 Mbit/s
  95th percentile per-packet one-way delay: 19.484 ms
  Loss rate: 0.10%
-- Flow 1:
  Average throughput: 64.76 Mbit/s
  95th percentile per-packet one-way delay: 14.409 ms
  Loss rate: 0.07%
-- Flow 2:
  Average throughput: 37.58 Mbit/s
  95th percentile per-packet one-way delay: 19.534 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 22.32 Mbit/s
  95th percentile per-packet one-way delay: 19.681 ms
  Loss rate: 0.32%
Run 2: Report of Indigo-1-32 — Data Link
Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 19:14:23
End at: 2018-04-10 19:14:53
Local clock offset: 1.661 ms
Remote clock offset: 4.53 ms

# Below is generated by plot.py at 2018-04-11 01:48:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 93.62 Mbit/s
  95th percentile per-packet one-way delay: 17.031 ms
  Loss rate: 0.27%
-- Flow 1:
  Average throughput: 58.54 Mbit/s
  95th percentile per-packet one-way delay: 16.806 ms
  Loss rate: 0.16%
-- Flow 2:
  Average throughput: 38.79 Mbit/s
  95th percentile per-packet one-way delay: 17.977 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 28.62 Mbit/s
  95th percentile per-packet one-way delay: 17.213 ms
  Loss rate: 0.68%
Run 3: Report of Indigo-1-32 — Data Link
Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 19:36:07
End at: 2018-04-10 19:36:37
Local clock offset: 1.036 ms
Remote clock offset: -0.631 ms

# Below is generated by plot.py at 2018-04-11 01:48:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 21.173 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 64.85 Mbit/s
95th percentile per-packet one-way delay: 18.199 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.35 Mbit/s
95th percentile per-packet one-way delay: 21.223 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 21.356 ms
Loss rate: 0.34%
Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 19:58:00
End at: 2018-04-10 19:58:30
Local clock offset: 1.388 ms
Remote clock offset: -4.246 ms

# Below is generated by plot.py at 2018-04-11 01:49:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 20.057 ms
Loss rate: 0.10%

-- Flow 1:
Average throughput: 59.11 Mbit/s
95th percentile per-packet one-way delay: 19.987 ms
Loss rate: 0.05%

-- Flow 2:
Average throughput: 33.17 Mbit/s
95th percentile per-packet one-way delay: 20.195 ms
Loss rate: 0.11%

-- Flow 3:
Average throughput: 48.18 Mbit/s
95th percentile per-packet one-way delay: 19.473 ms
Loss rate: 0.30%
Run 5: Report of Indigo-1-32 — Data Link

[Graphs showing throughput and per-packet one-way delay for different flows over time]
Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 20:19:48
End at: 2018-04-10 20:20:18
Local clock offset: 1.161 ms
Remote clock offset: -7.86 ms

# Below is generated by plot.py at 2018-04-11 01:49:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.02 Mbit/s
  95th percentile per-packet one-way delay: 20.605 ms
  Loss rate: 0.10%
-- Flow 1:
  Average throughput: 59.64 Mbit/s
  95th percentile per-packet one-way delay: 19.998 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 40.54 Mbit/s
  95th percentile per-packet one-way delay: 20.869 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 32.17 Mbit/s
  95th percentile per-packet one-way delay: 19.959 ms
  Loss rate: 0.32%
Run 6: Report of Indigo-1-32 — Data Link

[Graphs showing throughput and packet delay over time for different flows.]
Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 20:41:30
End at: 2018-04-10 20:42:00
Local clock offset: 0.929 ms
Remote clock offset: -3.405 ms

# Below is generated by plot.py at 2018-04-11 01:49:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 97.07 Mbit/s
  95th percentile per-packet one-way delay: 20.343 ms
  Loss rate: 0.10%
-- Flow 1:
  Average throughput: 54.18 Mbit/s
  95th percentile per-packet one-way delay: 20.312 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 40.77 Mbit/s
  95th percentile per-packet one-way delay: 20.429 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 48.21 Mbit/s
  95th percentile per-packet one-way delay: 19.108 ms
  Loss rate: 0.30%
Run 7: Report of Indigo-1-32 — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 54.16 Mb/s)
Flow 1 egress (mean 54.18 Mb/s)
Flow 2 ingress (mean 40.76 Mb/s)
Flow 2 egress (mean 40.77 Mb/s)
Flow 3 ingress (mean 48.23 Mb/s)
Flow 3 egress (mean 48.21 Mb/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 20.31 ms)
Flow 2 (95th percentile 20.43 ms)
Flow 3 (95th percentile 19.11 ms)
Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 21:02:45
End at: 2018-04-10 21:03:15
Local clock offset: 0.874 ms
Remote clock offset: -2.412 ms

# Below is generated by plot.py at 2018-04-11 01:49:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.96 Mbit/s
95th percentile per-packet one-way delay: 22.098 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 64.79 Mbit/s
95th percentile per-packet one-way delay: 17.491 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 36.73 Mbit/s
95th percentile per-packet one-way delay: 21.736 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 22.370 ms
Loss rate: 0.34%
Run 8: Report of Indigo-1-32 — Data Link

![Graph showing data link performance](image)

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

Legend:
- Flow 1 ingress (mean 64.78 Mbps)
- Flow 1 egress (mean 64.79 Mbps)
- Flow 2 ingress (mean 36.73 Mbps)
- Flow 2 egress (mean 36.73 Mbps)
- Flow 3 ingress (mean 23.93 Mbps)
- Flow 3 egress (mean 23.90 Mbps)

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Run 9: Statistics of Indigo-1-32

End at: 2018-04-10 21:24:25
Local clock offset: -0.149 ms
Remote clock offset: 3.74 ms

# Below is generated by plot.py at 2018-04-11 01:49:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 18.253 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 59.06 Mbit/s
95th percentile per-packet one-way delay: 18.191 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 48.42 Mbit/s
95th percentile per-packet one-way delay: 18.615 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 18.443 ms
Loss rate: 0.32%
Run 9: Report of Indigo-1-32 — Data Link

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

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

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Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 21:45:10
End at: 2018-04-10 21:45:40
Local clock offset: 0.908 ms
Remote clock offset: 1.413 ms

# Below is generated by plot.py at 2018-04-11 01:49:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.45 Mbit/s
95th percentile per-packet one-way delay: 19.458 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 49.036 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 18.280 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 43.41 Mbit/s
95th percentile per-packet one-way delay: 19.366 ms
Loss rate: 0.31%
Run 10: Report of Indigo-1-32 — Data Link

![Graph of throughput and packet delay over time with various flow labels and statistics.]

- Throughput (Mbps/s) over Time (s).
- Packet delay (ms) over Time (s) with 95th percentile values.

Flow 1:
- Ingress: 9.98 Mbps (mean).
- Egress: 9.98 Mbps (mean).

Flow 2:
- Ingress: 66.56 Mbps (mean).
- Egress: 66.58 Mbps (mean).

Flow 3:
- Ingress: 43.43 Mbps (mean).
- Egress: 43.41 Mbps (mean).

Packet delay statistics:
- Flow 1: 49.04 ms (95th percentile).
- Flow 2: 18.28 ms (95th percentile).
- Flow 3: 19.37 ms (95th percentile).
Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 18:22:26
End at: 2018-04-10 18:22:56
Local clock offset: -1.86 ms
Remote clock offset: 5.213 ms

# Below is generated by plot.py at 2018-04-11 01:49:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.32 Mbit/s
  95th percentile per-packet one-way delay: 31.694 ms
  Loss rate: 0.13%
-- Flow 1:
  Average throughput: 59.25 Mbit/s
  95th percentile per-packet one-way delay: 31.690 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 30.99 Mbit/s
  95th percentile per-packet one-way delay: 17.249 ms
  Loss rate: 0.11%
-- Flow 3:
  Average throughput: 22.73 Mbit/s
  95th percentile per-packet one-way delay: 43.857 ms
  Loss rate: 0.97%
Run 1: Report of Vivace-latency — Data Link
Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 18:44:35
End at: 2018-04-10 18:45:05
Local clock offset: -2.913 ms
Remote clock offset: 8.221 ms

# Below is generated by plot.py at 2018-04-11 01:49:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.28 Mbit/s
95th percentile per-packet one-way delay: 21.520 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 18.816 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 29.50 Mbit/s
95th percentile per-packet one-way delay: 41.602 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 20.07 Mbit/s
95th percentile per-packet one-way delay: 17.123 ms
Loss rate: 0.55%
Run 2: Report of Vivace-latency — Data Link

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

- **Throughput:**
  - Flow 1 ingress (mean 60.05 Mbit/s)
  - Flow 1 egress (mean 60.08 Mbit/s)
  - Flow 2 ingress (mean 29.30 Mbit/s)
  - Flow 2 egress (mean 29.50 Mbit/s)
  - Flow 3 ingress (mean 20.12 Mbit/s)
  - Flow 3 egress (mean 20.07 Mbit/s)

- **Per-packet one-way delay:**
  - Flow 1 (95th percentile 18.82 ms)
  - Flow 2 (95th percentile 41.60 ms)
  - Flow 3 (95th percentile 17.12 ms)
Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 19:06:54
End at: 2018-04-10 19:07:24
Local clock offset: 0.912 ms
Remote clock offset: 4.376 ms

# Below is generated by plot.py at 2018-04-11 01:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.46 Mbit/s
95th percentile per-packet one-way delay: 37.792 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 57.06 Mbit/s
95th percentile per-packet one-way delay: 35.435 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 40.013 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 33.03 Mbit/s
95th percentile per-packet one-way delay: 15.674 ms
Loss rate: 0.30%
Run 3: Report of Vivace-latency — Data Link
Run 4: Statistics of Vivace-latency

End at: 2018-04-10 19:29:25
Local clock offset: 1.287 ms
Remote clock offset: 0.564 ms

# Below is generated by plot.py at 2018-04-11 01:50:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 23.264 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 62.22 Mbit/s
95th percentile per-packet one-way delay: 20.819 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 23.38 Mbit/s
95th percentile per-packet one-way delay: 40.681 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 19.73 Mbit/s
95th percentile per-packet one-way delay: 16.324 ms
Loss rate: 0.54%
Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 19:50:45
End at: 2018-04-10 19:51:15
Local clock offset: 1.7 ms
Remote clock offset: -2.777 ms

# Below is generated by plot.py at 2018-04-11 01:50:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.38 Mbit/s
  95th percentile per-packet one-way delay: 52.768 ms
  Loss rate: 0.18%
-- Flow 1:
  Average throughput: 53.98 Mbit/s
  95th percentile per-packet one-way delay: 51.312 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 35.79 Mbit/s
  95th percentile per-packet one-way delay: 55.670 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 29.27 Mbit/s
  95th percentile per-packet one-way delay: 26.740 ms
  Loss rate: 0.47%
Run 5: Report of Vivace-latency — Data Link
Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 20:12:31
End at: 2018-04-10 20:13:01
Local clock offset: 0.815 ms
Remote clock offset: -5.521 ms

# Below is generated by plot.py at 2018-04-11 01:51:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.12 Mbit/s
95th percentile per-packet one-way delay: 31.493 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 53.85 Mbit/s
95th percentile per-packet one-way delay: 28.592 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 40.30 Mbit/s
95th percentile per-packet one-way delay: 30.248 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 16.74 Mbit/s
95th percentile per-packet one-way delay: 44.918 ms
Loss rate: 0.76%
Run 6: Report of Vivace-latency — Data Link
Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 20:34:13
End at: 2018-04-10 20:34:43
Local clock offset: -4.334 ms
Remote clock offset: -13.457 ms

# Below is generated by plot.py at 2018-04-11 01:51:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 37.185 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 64.41 Mbit/s
95th percentile per-packet one-way delay: 37.282 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 30.66 Mbit/s
95th percentile per-packet one-way delay: 29.296 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 28.790 ms
Loss rate: 0.69%
Run 7: Report of Vivace-latency — Data Link

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

Throughput (Mbit/s) vs. Time (s)
- Flow 1 ingress (mean 64.39 Mbit/s)
- Flow 1 egress (mean 64.41 Mbit/s)
- Flow 2 ingress (mean 30.65 Mbit/s)
- Flow 2 egress (mean 30.66 Mbit/s)
- Flow 3 ingress (mean 12.41 Mbit/s)
- Flow 3 egress (mean 12.35 Mbit/s)

Per-packet one-way delay (ms) vs. Time (s)
- Flow 1 (95th percentile 37.28 ms)
- Flow 2 (95th percentile 29.30 ms)
- Flow 3 (95th percentile 28.79 ms)
Run 8: Statistics of Vivace-latency

End at: 2018-04-10 20:56:09
Local clock offset: 0.488 ms
Remote clock offset: -3.051 ms

# Below is generated by plot.py at 2018-04-11 01:51:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.08 Mbit/s
95th percentile per-packet one-way delay: 38.229 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 62.69 Mbit/s
95th percentile per-packet one-way delay: 38.126 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 24.22 Mbit/s
95th percentile per-packet one-way delay: 41.234 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 15.331 ms
Loss rate: 0.42%
Run 8: Report of Vivace-latency — Data Link

![Throughput and Per-packet end-to-end delay graphs]

- Flow 1 ingress (mean 62.67 Mbit/s)
- Flow 1 egress (mean 62.69 Mbit/s)
- Flow 2 ingress (mean 24.20 Mbit/s)
- Flow 2 egress (mean 24.22 Mbit/s)
- Flow 3 ingress (mean 28.34 Mbit/s)
- Flow 3 egress (mean 26.29 Mbit/s)

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

- Flow 1 (95th percentile 38.13 ms)
- Flow 2 (95th percentile 41.23 ms)
- Flow 3 (95th percentile 15.33 ms)
Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 21:16:51
End at: 2018-04-10 21:17:21
Local clock offset: -0.431 ms
Remote clock offset: 1.013 ms

# Below is generated by plot.py at 2018-04-11 01:51:15
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 89.96 Mbit/s
 95th percentile per-packet one-way delay: 44.443 ms
 Loss rate: 0.17%
 -- Flow 1:
 Average throughput: 59.71 Mbit/s
 95th percentile per-packet one-way delay: 43.964 ms
 Loss rate: 0.12%
 -- Flow 2:
 Average throughput: 32.03 Mbit/s
 95th percentile per-packet one-way delay: 44.343 ms
 Loss rate: 0.29%
 -- Flow 3:
 Average throughput: 27.24 Mbit/s
 95th percentile per-packet one-way delay: 46.480 ms
 Loss rate: 0.23%
Run 9: Report of Vivace-latency — Data Link

![Throughput Chart]

![Packet Delay Chart]
Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 21:38:02
End at: 2018-04-10 21:38:32
Local clock offset: 0.602 ms
Remote clock offset: 5.012 ms

# Below is generated by plot.py at 2018-04-11 01:51:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.65 Mbit/s
  95th percentile per-packet one-way delay: 20.428 ms
  Loss rate: 0.09%
-- Flow 1:
  Average throughput: 57.56 Mbit/s
  95th percentile per-packet one-way delay: 28.204 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 37.51 Mbit/s
  95th percentile per-packet one-way delay: 15.217 ms
  Loss rate: 0.08%
-- Flow 3:
  Average throughput: 15.70 Mbit/s
  95th percentile per-packet one-way delay: 17.841 ms
  Loss rate: 0.53%
Run 10: Report of Vivace-latency — Data Link
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 18:19:46
End at: 2018-04-10 18:20:16
Local clock offset: -2.002 ms
Remote clock offset: 3.05 ms

# Below is generated by plot.py at 2018-04-11 01:52:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.40 Mbit/s
95th percentile per-packet one-way delay: 45.740 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 58.59 Mbit/s
95th percentile per-packet one-way delay: 45.547 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.99 Mbit/s
95th percentile per-packet one-way delay: 45.743 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 45.970 ms
Loss rate: 0.54%
Run 1: Report of Vivace-loss — Data Link
Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 18:42:11
End at: 2018-04-10 18:42:41
Local clock offset: -3.509 ms
Remote clock offset: 8.365 ms

# Below is generated by plot.py at 2018-04-11 01:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 45.020 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 44.990 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 45.034 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.47 Mbit/s
95th percentile per-packet one-way delay: 45.060 ms
Loss rate: 0.62%
Run 2: Report of Vivace-loss — Data Link

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

- **Flow 1 ingress (mean 58.64 Mbit/s)**
- **Flow 1 egress (mean 58.66 Mbit/s)**
- **Flow 2 ingress (mean 38.78 Mbit/s)**
- **Flow 2 egress (mean 38.77 Mbit/s)**
- **Flow 3 ingress (mean 30.54 Mbit/s)**
- **Flow 3 egress (mean 30.47 Mbit/s)**

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

- **Flow 1 (95th percentile 44.99 ms)**
- **Flow 2 (95th percentile 45.03 ms)**
- **Flow 3 (95th percentile 45.06 ms)**

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Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 19:04:25
End at: 2018-04-10 19:04:55
Local clock offset: 0.853 ms
Remote clock offset: 4.614 ms

# Below is generated by plot.py at 2018-04-11 01:52:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.44 Mbit/s
  95th percentile per-packet one-way delay: 54.923 ms
  Loss rate: 0.20%
-- Flow 1:
  Average throughput: 63.40 Mbit/s
  95th percentile per-packet one-way delay: 33.309 ms
  Loss rate: 0.12%
-- Flow 2:
  Average throughput: 35.79 Mbit/s
  95th percentile per-packet one-way delay: 55.216 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 22.05 Mbit/s
  95th percentile per-packet one-way delay: 55.712 ms
  Loss rate: 0.76%
Run 3: Report of Vivace-loss — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 63.40 Mbit/s)
  - Flow 1 egress (mean 63.40 Mbit/s)
  - Flow 2 ingress (mean 35.79 Mbit/s)
  - Flow 2 egress (mean 35.79 Mbit/s)
  - Flow 3 ingress (mean 22.12 Mbit/s)
  - Flow 3 egress (mean 22.05 Mbit/s)

- **Per-packet end-to-end delay (ms):**
  - Flow 1 (95th percentile 33.31 ms)
  - Flow 2 (95th percentile 55.22 ms)
  - Flow 3 (95th percentile 55.71 ms)
Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 19:26:25
End at: 2018-04-10 19:26:55
Local clock offset: 1.573 ms
Remote clock offset: 0.979 ms

# Below is generated by plot.py at 2018-04-11 01:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 47.947 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 47.909 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.92 Mbit/s
95th percentile per-packet one-way delay: 47.870 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.34 Mbit/s
95th percentile per-packet one-way delay: 48.058 ms
Loss rate: 0.66%
Run 4: Report of Vivace-loss — Data Link
Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 19:48:16
End at: 2018-04-10 19:48:46
Local clock offset: 1.349 ms
Remote clock offset: -3.386 ms

# Below is generated by plot.py at 2018-04-11 01:52:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 48.055 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 47.964 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 38.56 Mbit/s
95th percentile per-packet one-way delay: 48.134 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 48.099 ms
Loss rate: 0.65%
Run 5: Report of Vivace-loss — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows with their respective means and percentiles.]
Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 20:10:04
End at: 2018-04-10 20:10:34
Local clock offset: 1.457 ms
Remote clock offset: -6.768 ms

# Below is generated by plot.py at 2018-04-11 01:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 47.497 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 57.87 Mbit/s
95th percentile per-packet one-way delay: 47.221 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 39.68 Mbit/s
95th percentile per-packet one-way delay: 47.589 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 47.711 ms
Loss rate: 0.46%
Run 6: Report of Vivace-loss — Data Link
Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 20:31:46
End at: 2018-04-10 20:32:16
Local clock offset: 1.377 ms
Remote clock offset: -6.606 ms

# Below is generated by plot.py at 2018-04-11 01:52:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 57.083 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 56.47 Mbit/s
95th percentile per-packet one-way delay: 57.001 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 35.11 Mbit/s
95th percentile per-packet one-way delay: 57.355 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 44.37 Mbit/s
95th percentile per-packet one-way delay: 35.861 ms
Loss rate: 0.53%
Run 7: Report of Vivace-loss — Data Link
Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 20:53:16
End at: 2018-04-10 20:53:46
Local clock offset: 0.526 ms
Remote clock offset: -2.447 ms

# Below is generated by plot.py at 2018-04-11 01:52:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.39 Mbit/s
95th percentile per-packet one-way delay: 55.976 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 34.313 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 56.253 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 57.359 ms
Loss rate: 0.78%
Run 8: Report of Vivace-loss — Data Link

![Graphs showing throughput and packet delay over time for different flows.](image-url)
Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 21:14:28
End at: 2018-04-10 21:14:58
Local clock offset: 0.507 ms
Remote clock offset: 1.25 ms

# Below is generated by plot.py at 2018-04-11 01:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 57.803 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 57.673 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 46.66 Mbit/s
95th percentile per-packet one-way delay: 36.405 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 58.437 ms
Loss rate: 0.81%
Run 9: Report of Vivace-loss — Data Link
Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 21:35:39
End at: 2018-04-10 21:36:09
Local clock offset: 0.544 ms
Remote clock offset: 5.358 ms

# Below is generated by plot.py at 2018-04-11 01:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.41 Mbit/s
95th percentile per-packet one-way delay: 45.210 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.01 Mbit/s
95th percentile per-packet one-way delay: 44.622 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 44.948 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 28.77 Mbit/s
95th percentile per-packet one-way delay: 46.414 ms
Loss rate: 0.66%
Run 10: Report of Vivace-loss — Data Link

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

- **Flow 1 ingress (mean 59.00 Mbit/s)**
- **Flow 1 egress (mean 59.01 Mbit/s)**
- **Flow 2 ingress (mean 39.11 Mbit/s)**
- **Flow 2 egress (mean 39.10 Mbit/s)**
- **Flow 3 ingress (mean 28.78 Mbit/s)**
- **Flow 3 egress (mean 28.77 Mbit/s)**

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

- **Flow 1 (95th percentile 44.62 ms)**
- **Flow 2 (95th percentile 44.95 ms)**
- **Flow 3 (95th percentile 46.41 ms)**
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 18:28:53
End at: 2018-04-10 18:29:23
Local clock offset: -2.196 ms
Remote clock offset: 6.808 ms

# Below is generated by plot.py at 2018-04-11 01:53:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.03 Mbit/s
95th percentile per-packet one-way delay: 43.169 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 33.555 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.15 Mbit/s
95th percentile per-packet one-way delay: 44.104 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 27.91 Mbit/s
95th percentile per-packet one-way delay: 26.157 ms
Loss rate: 0.31%
Run 1: Report of Vivace-LTE — Data Link
Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 18:50:58
End at: 2018-04-10 18:51:28
Local clock offset: -0.888 ms
Remote clock offset: 8.092 ms

# Below is generated by plot.py at 2018-04-11 01:54:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.34 Mbit/s
  95th percentile per-packet one-way delay: 42.583 ms
  Loss rate: 0.08%
-- Flow 1:
  Average throughput: 54.64 Mbit/s
  95th percentile per-packet one-way delay: 42.602 ms
  Loss rate: 0.04%
-- Flow 2:
  Average throughput: 39.78 Mbit/s
  95th percentile per-packet one-way delay: 42.689 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 28.21 Mbit/s
  95th percentile per-packet one-way delay: 15.934 ms
  Loss rate: 0.29%
Run 2: Report of Vivace-LTE — Data Link
Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 19:13:06
End at: 2018-04-10 19:13:36
Local clock offset: 1.094 ms
Remote clock offset: 4.044 ms

# Below is generated by plot.py at 2018-04-11 01:54:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.72 Mbit/s
95th percentile per-packet one-way delay: 47.542 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 47.628 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 44.72 Mbit/s
95th percentile per-packet one-way delay: 33.196 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 16.11 Mbit/s
95th percentile per-packet one-way delay: 51.072 ms
Loss rate: 0.68%
Run 3: Report of Vivace-LTE — Data Link
Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 19:34:54
End at: 2018-04-10 19:35:24
Local clock offset: 1.482 ms
Remote clock offset: -1.112 ms

# Below is generated by plot.py at 2018-04-11 01:54:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.07 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 56.49 Mbit/s
95th percentile per-packet one-way delay: 49.778 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 35.48 Mbit/s
95th percentile per-packet one-way delay: 55.514 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 36.51 Mbit/s
95th percentile per-packet one-way delay: 24.109 ms
Loss rate: 0.36%
Run 4: Report of Vivace-LTE — Data Link
Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 19:56:47
End at: 2018-04-10 19:57:17
Local clock offset: 1.598 ms
Remote clock offset: -2.808 ms

# Below is generated by plot.py at 2018-04-11 01:54:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 56.397 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 56.76 Mbit/s
95th percentile per-packet one-way delay: 55.540 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 57.206 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 36.032 ms
Loss rate: 0.34%
Run 5: Report of Vivace-LTE — Data Link

Throughput (Mb/s)

Time (s)

Per packet one way delay (ms)

Time (s)

Flow 1 ingress (mean 56.74 Mbit/s)
Flow 1 egress (mean 56.76 Mbit/s)
Flow 2 ingress (mean 33.05 Mbit/s)
Flow 2 egress (mean 33.01 Mbit/s)
Flow 3 ingress (mean 40.93 Mbit/s)
Flow 3 egress (mean 40.92 Mbit/s)
Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 20:18:35
End at: 2018-04-10 20:19:05
Local clock offset: 0.635 ms
Remote clock offset: -7.431 ms

# Below is generated by plot.py at 2018-04-11 01:54:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.92 Mbit/s
  95th percentile per-packet one-way delay: 44.318 ms
  Loss rate: 0.14%
-- Flow 1:
  Average throughput: 56.99 Mbit/s
  95th percentile per-packet one-way delay: 35.406 ms
  Loss rate: 0.11%
-- Flow 2:
  Average throughput: 39.57 Mbit/s
  95th percentile per-packet one-way delay: 45.177 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 26.29 Mbit/s
  95th percentile per-packet one-way delay: 46.311 ms
  Loss rate: 0.31%
Run 6: Report of Vivace-LTE — Data Link
Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 20:40:16
End at: 2018-04-10 20:40:46
Local clock offset: 0.622 ms
Remote clock offset: -3.336 ms

# Below is generated by plot.py at 2018-04-11 01:54:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 34.778 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 60.54 Mbit/s
95th percentile per-packet one-way delay: 34.010 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 40.610 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 15.13 Mbit/s
95th percentile per-packet one-way delay: 41.177 ms
Loss rate: 0.65%
Run 7: Report of Vivace-LTE — Data Link
Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 21:01:32
End at: 2018-04-10 21:02:02
Local clock offset: 0.923 ms
Remote clock offset: -2.174 ms

# Below is generated by plot.py at 2018-04-11 01:54:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 43.859 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 56.91 Mbit/s
95th percentile per-packet one-way delay: 42.191 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 38.48 Mbit/s
95th percentile per-packet one-way delay: 45.165 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 25.50 Mbit/s
95th percentile per-packet one-way delay: 26.593 ms
Loss rate: 0.31%
Run 8: Report of Vivace-LTE — Data Link
Run 9: Statistics of Vivace-LTE

End at: 2018-04-10 21:23:14
Local clock offset: -0.328 ms
Remote clock offset: 4.217 ms

# Below is generated by plot.py at 2018-04-11 01:54:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 42.109 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.48 Mbit/s
95th percentile per-packet one-way delay: 42.207 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 44.47 Mbit/s
95th percentile per-packet one-way delay: 33.745 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 48.653 ms
Loss rate: 0.70%
Run 9: Report of Vivace-LTE — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 55.47 Mbit/s)
- Flow 1 egress (mean 55.48 Mbit/s)
- Flow 2 ingress (mean 44.48 Mbit/s)
- Flow 2 egress (mean 44.47 Mbit/s)
- Flow 3 ingress (mean 19.17 Mbit/s)
- Flow 3 egress (mean 19.10 Mbit/s)

![Per-packet one-way delay Graph]

- Flow 1 (95th percentile 42.21 ms)
- Flow 2 (95th percentile 33.74 ms)
- Flow 3 (95th percentile 48.65 ms)
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 21:43:57
End at: 2018-04-10 21:44:27
Local clock offset: 0.351 ms
Remote clock offset: 1.234 ms

# Below is generated by plot.py at 2018-04-11 01:54:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.45 Mbit/s
95th percentile per-packet one-way delay: 45.326 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 58.91 Mbit/s
95th percentile per-packet one-way delay: 45.162 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 36.40 Mbit/s
95th percentile per-packet one-way delay: 45.994 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 28.45 Mbit/s
95th percentile per-packet one-way delay: 33.317 ms
Loss rate: 0.28%