Pantheon Report

Generated at 2018-02-05 01:35:16 (UTC).
Data path: China Ethernet (remote) → AWS Korea 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 ntp.nict.jp and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 702179988b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfeae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e8933eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce80b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d85d38dc46fde0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ fof2e693303ae82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc9558fa0d66d18b623c091a55feca872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f18c81433ebc978f3cffe42
third_party/scream @ c3370fd7bd17265af79aeab34e4016ad23f5965885
third_party/sourdough @ f1a14bf7e749737437f61b1eaeeb30b267cede681
third_party/sprout @ 6f2e6e6e088d91066a9f023df375ee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a594
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784c3e3
third_party/webRTC @ a488197dd041ace68a42849b2540ad834825f42
test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
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<th>mean 95th-%ile delay (ms)</th>
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<td>Vivace-LTE</td>
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<td>53.79</td>
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<td>21.70</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-02-04 17:23:18
End at: 2018-02-04 17:23:48
Local clock offset: 0.045 ms
Remote clock offset: -2.796 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 81.475 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 57.09 Mbit/s
95th percentile per-packet one-way delay: 80.351 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 81.779 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 83.165 ms
Loss rate: 1.67%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Start at: 2018-02-04 17:46:06
End at: 2018-02-04 17:46:36
Local clock offset: -3.174 ms
Remote clock offset: -1.196 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 79.498 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 57.25 Mbit/s
95th percentile per-packet one-way delay: 78.298 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 39.63 Mbit/s
95th percentile per-packet one-way delay: 79.934 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 80.723 ms
Loss rate: 1.71%
Run 2: Report of TCP BBR — Data Link
Run 3: Statistics of TCP BBR

Start at: 2018-02-04 18:08:51
End at: 2018-02-04 18:09:22
Local clock offset: -1.049 ms
Remote clock offset: 0.415 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.71 Mbit/s
95th percentile per-packet one-way delay: 80.778 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 57.10 Mbit/s
95th percentile per-packet one-way delay: 79.417 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 81.445 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 82.325 ms
Loss rate: 1.61%
Run 3: Report of TCP BBR — Data Link
Run 4: Statistics of TCP BBR

Start at: 2018-02-04 18:32:20
End at: 2018-02-04 18:32:50
Local clock offset: -1.363 ms
Remote clock offset: 2.003 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.58 Mbit/s
95th percentile per-packet one-way delay: 108.621 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 107.214 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 108.702 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 29.53 Mbit/s
95th percentile per-packet one-way delay: 110.524 ms
Loss rate: 1.91%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

Start at: 2018-02-04 18:55:38
End at: 2018-02-04 18:56:08
Local clock offset: -1.865 ms
Remote clock offset: 3.345 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 107.830 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 55.75 Mbit/s
95th percentile per-packet one-way delay: 106.435 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 108.364 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 109.806 ms
Loss rate: 1.90%
Run 5: Report of TCP BBR — Data Link

![Throughput Graph]

![Latency Graph]

Legend:
- Flow 1 ingress (mean 55.70 Mbit/s)
- Flow 1 egress (mean 55.75 Mbit/s)
- Flow 2 ingress (mean 39.24 Mbit/s)
- Flow 2 egress (mean 39.31 Mbit/s)
- Flow 3 ingress (mean 29.77 Mbit/s)
- Flow 3 egress (mean 29.79 Mbit/s)

Legend for latency:
- Flow 1 (95th percentile 106.44 ms)
- Flow 2 (95th percentile 108.36 ms)
- Flow 3 (95th percentile 109.81 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-02-04 19:18:52
End at: 2018-02-04 19:19:22
Local clock offset: -2.285 ms
Remote clock offset: 4.406 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 108.602 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 107.211 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 38.96 Mbit/s
95th percentile per-packet one-way delay: 109.281 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 29.46 Mbit/s
95th percentile per-packet one-way delay: 109.986 ms
Loss rate: 2.02%
Run 6: Report of TCP BBR — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 55.79 Mbit/s)
- Flow 1 egress (mean 55.90 Mbit/s)
- Flow 2 ingress (mean 38.91 Mbit/s)
- Flow 2 egress (mean 38.96 Mbit/s)
- Flow 3 ingress (mean 29.56 Mbit/s)
- Flow 3 egress (mean 29.46 Mbit/s)

![Per-packet one way delay Graph]

- Flow 1 (95th percentile 107.21 ms)
- Flow 2 (95th percentile 109.28 ms)
- Flow 3 (95th percentile 109.99 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-02-04 19:42:07
End at: 2018-02-04 19:42:37
Local clock offset: -2.324 ms
Remote clock offset: 4.764 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 108.820 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 107.664 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 109.158 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 110.259 ms
Loss rate: 2.03%
Run 8: Statistics of TCP BBR

Start at: 2018-02-04 20:05:24
End at: 2018-02-04 20:05:54
Local clock offset: -2.818 ms
Remote clock offset: 4.851 ms

# Below is generated by plot.py at 2018-02-05 01:12:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 91.69 Mbit/s
  95th percentile per-packet one-way delay: 108.147 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 56.42 Mbit/s
  95th percentile per-packet one-way delay: 107.149 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 38.16 Mbit/s
  95th percentile per-packet one-way delay: 108.579 ms
  Loss rate: 1.49%
-- Flow 3:
  Average throughput: 30.51 Mbit/s
  95th percentile per-packet one-way delay: 109.767 ms
  Loss rate: 3.80%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-02-04 20:28:56
End at: 2018-02-04 20:29:26
Local clock offset: -3.365 ms
Remote clock offset: 5.133 ms

# Below is generated by plot.py at 2018-02-05 01:14:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.58 Mbit/s
95th percentile per-packet one-way delay: 107.805 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 55.96 Mbit/s
95th percentile per-packet one-way delay: 106.235 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 39.37 Mbit/s
95th percentile per-packet one-way delay: 108.236 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 29.15 Mbit/s
95th percentile per-packet one-way delay: 109.566 ms
Loss rate: 1.91%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-02-04 20:52:14  
End at: 2018-02-04 20:52:44  
Local clock offset: -2.942 ms  
Remote clock offset: 5.103 ms

# Below is generated by plot.py at 2018-02-05 01:14:00
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 91.06 Mbit/s  
  95th percentile per-packet one-way delay: 108.247 ms  
  Loss rate: 0.63%  
-- Flow 1:  
  Average throughput: 55.37 Mbit/s  
  95th percentile per-packet one-way delay: 107.146 ms  
  Loss rate: 0.36%  
-- Flow 2:  
  Average throughput: 39.18 Mbit/s  
  95th percentile per-packet one-way delay: 108.434 ms  
  Loss rate: 0.72%  
-- Flow 3:  
  Average throughput: 29.64 Mbit/s  
  95th percentile per-packet one-way delay: 109.805 ms  
  Loss rate: 1.90%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-02-04 17:43:33
End at: 2018-02-04 17:44:03
Local clock offset: -0.302 ms
Remote clock offset: -1.423 ms
Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-02-04 18:06:19
End at: 2018-02-04 18:06:49
Local clock offset: -0.716 ms
Remote clock offset: 0.319 ms
Run 2: Report of TCP Cubic — Data Link

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Run 3: Statistics of TCP Cubic

Start at: 2018-02-04 18:29:42
End at: 2018-02-04 18:30:12
Local clock offset: -1.772 ms
Remote clock offset: 1.83 ms

# Below is generated by plot.py at 2018-02-05 01:14:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.74 Mbit/s
95th percentile per-packet one-way delay: 103.456 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 68.36 Mbit/s
95th percentile per-packet one-way delay: 101.482 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 29.56 Mbit/s
95th percentile per-packet one-way delay: 104.873 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 14.65 Mbit/s
95th percentile per-packet one-way delay: 108.195 ms
Loss rate: 5.09%
Run 3: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 68.17 Mbit/s)
- Flow 1 egress (mean 68.36 Mbit/s)
- Flow 2 ingress (mean 29.55 Mbit/s)
- Flow 2 egress (mean 29.56 Mbit/s)
- Flow 3 ingress (mean 14.86 Mbit/s)
- Flow 3 egress (mean 14.65 Mbit/s)
Run 4: Statistics of TCP Cubic

Start at: 2018-02-04 18:52:59
End at: 2018-02-04 18:53:29
Local clock offset: -1.572 ms
Remote clock offset: 3.202 ms

# Below is generated by plot.py at 2018-02-05 01:14:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.70 Mbit/s
95th percentile per-packet one-way delay: 105.163 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 68.44 Mbit/s
95th percentile per-packet one-way delay: 102.806 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 29.21 Mbit/s
95th percentile per-packet one-way delay: 106.492 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 14.89 Mbit/s
95th percentile per-packet one-way delay: 109.471 ms
Loss rate: 3.71%
Run 4: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 68.33 Mbps)
- Flow 1 egress (mean 68.44 Mbps)
- Flow 2 ingress (mean 29.24 Mbps)
- Flow 2 egress (mean 29.21 Mbps)
- Flow 3 ingress (mean 15.19 Mbps)
- Flow 3 egress (mean 14.89 Mbps)

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

- Flow 1 (95th percentile 102.91 ms)
- Flow 2 (95th percentile 106.49 ms)
- Flow 3 (95th percentile 109.47 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-02-04 19:16:16
End at: 2018-02-04 19:16:46
Local clock offset: -2.22 ms
Remote clock offset: 4.344 ms
Run 5: Report of TCP Cubic — Data Link

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Run 6: Statistics of TCP Cubic

Start at: 2018-02-04 19:39:29
End at: 2018-02-04 19:39:59
Local clock offset: -2.51 ms
Remote clock offset: 4.704 ms

# Below is generated by plot.py at 2018-02-05 01:14:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 107.876 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 106.340 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 108.526 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 109.643 ms
Loss rate: 3.41%
Run 6: Report of TCP Cubic — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 57.08 Mbit/s)
- Flow 1 egress (mean 58.08 Mbit/s)
- Flow 2 ingress (mean 37.49 Mbit/s)
- Flow 2 egress (mean 37.82 Mbit/s)
- Flow 3 ingress (mean 29.13 Mbit/s)
- Flow 3 egress (mean 29.29 Mbit/s)

![Per-packet one-way delay Graph]

- Flow 1 (95th percentile 106.34 ms)
- Flow 2 (95th percentile 108.53 ms)
- Flow 3 (95th percentile 109.64 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-02-04 20:02:46
End at: 2018-02-04 20:03:16
Local clock offset: -5.584 ms
Remote clock offset: 4.794 ms

# Below is generated by plot.py at 2018-02-05 01:14:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.82 Mbit/s
  95th percentile per-packet one-way delay: 105.181 ms
  Loss rate: 0.98%
-- Flow 1:
  Average throughput: 57.26 Mbit/s
  95th percentile per-packet one-way delay: 103.759 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 39.16 Mbit/s
  95th percentile per-packet one-way delay: 105.804 ms
  Loss rate: 1.30%
-- Flow 3:
  Average throughput: 29.26 Mbit/s
  95th percentile per-packet one-way delay: 106.870 ms
  Loss rate: 3.42%
Run 7: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 57.14 Mbit/s)
- Flow 1 egress (mean 57.26 Mbit/s)
- Flow 2 ingress (mean 38.95 Mbit/s)
- Flow 2 egress (mean 39.16 Mbit/s)
- Flow 3 ingress (mean 29.11 Mbit/s)
- Flow 3 egress (mean 29.26 Mbit/s)
Run 8: Statistics of TCP Cubic

Start at: 2018-02-04 20:26:17
End at: 2018-02-04 20:26:47
Local clock offset: -2.712 ms
Remote clock offset: 5.187 ms

# Below is generated by plot.py at 2018-02-05 01:14:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.54 Mbit/s
  95th percentile per-packet one-way delay: 107.919 ms
  Loss rate: 1.04%
-- Flow 1:
  Average throughput: 59.94 Mbit/s
  95th percentile per-packet one-way delay: 106.435 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 34.71 Mbit/s
  95th percentile per-packet one-way delay: 108.848 ms
  Loss rate: 1.59%
-- Flow 3:
  Average throughput: 29.30 Mbit/s
  95th percentile per-packet one-way delay: 109.691 ms
  Loss rate: 3.57%
Run 8: Report of TCP Cubic — Data Link
Run 9: Statistics of TCP Cubic

Start at: 2018-02-04 20:49:37
End at: 2018-02-04 20:50:07
Local clock offset: -2.967 ms
Remote clock offset: 5.136 ms
Run 9: Report of TCP Cubic — Data Link

Figure is missing

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Run 10: Statistics of TCP Cubic

Start at: 2018-02-04 21:13:07
End at: 2018-02-04 21:13:38
Local clock offset: -2.363 ms
Remote clock offset: 5.055 ms

# Below is generated by plot.py at 2018-02-05 01:14:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 108.125 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 56.67 Mbit/s
95th percentile per-packet one-way delay: 106.671 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 39.31 Mbit/s
95th percentile per-packet one-way delay: 108.670 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 29.31 Mbit/s
95th percentile per-packet one-way delay: 110.048 ms
Loss rate: 3.47%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of LEDBAT

Start at: 2018-02-04 17:30:58
End at: 2018-02-04 17:31:28
Local clock offset: -0.2 ms
Remote clock offset: -2.324 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.44 Mbit/s
95th percentile per-packet one-way delay: 56.374 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 31.13 Mbit/s
95th percentile per-packet one-way delay: 55.619 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 20.17 Mbit/s
95th percentile per-packet one-way delay: 56.896 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 59.153 ms
Loss rate: 2.20%
Run 1: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 31.24 Mbit/s)
- Flow 1 egress (mean 31.13 Mbit/s)
- Flow 2 ingress (mean 20.27 Mbit/s)
- Flow 2 egress (mean 20.17 Mbit/s)
- Flow 3 ingress (mean 9.14 Mbit/s)
- Flow 3 egress (mean 9.04 Mbit/s)

[Graph showing packet delay over time for different flows]

- Flow 1 (95th percentile 55.62 ms)
- Flow 2 (95th percentile 56.90 ms)
- Flow 3 (95th percentile 59.15 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-02-04 17:53:45
End at: 2018-02-04 17:54:15
Local clock offset: -0.69 ms
Remote clock offset: -0.564 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 47.62 Mbit/s
  95th percentile per-packet one-way delay: 56.741 ms
  Loss rate: 0.89%
-- Flow 1:
  Average throughput: 31.37 Mbit/s
  95th percentile per-packet one-way delay: 55.918 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 20.08 Mbit/s
  95th percentile per-packet one-way delay: 57.339 ms
  Loss rate: 1.05%
-- Flow 3:
  Average throughput: 9.02 Mbit/s
  95th percentile per-packet one-way delay: 58.326 ms
  Loss rate: 2.20%
Run 3: Statistics of LEDBAT

Start at: 2018-02-04 18:16:50
End at: 2018-02-04 18:17:20
Local clock offset: -0.985 ms
Remote clock offset: 1.031 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 67.550 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 67.497 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 13.63 Mbit/s
95th percentile per-packet one-way delay: 67.773 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 67.828 ms
Loss rate: 2.68%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-02-04 18:40:10
End at: 2018-02-04 18:40:40
Local clock offset: -1.343 ms
Remote clock offset: 2.505 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 31.75 Mbit/s
  95th percentile per-packet one-way delay: 67.653 ms
  Loss rate: 1.13%
-- Flow 1:
  Average throughput: 20.62 Mbit/s
  95th percentile per-packet one-way delay: 67.576 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 13.62 Mbit/s
  95th percentile per-packet one-way delay: 67.380 ms
  Loss rate: 1.32%
-- Flow 3:
  Average throughput: 6.51 Mbit/s
  95th percentile per-packet one-way delay: 69.967 ms
  Loss rate: 2.72%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-02-04 19:03:27
End at: 2018-02-04 19:03:57
Local clock offset: -2.078 ms
Remote clock offset: 3.742 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 67.623 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 20.48 Mbit/s
95th percentile per-packet one-way delay: 67.497 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 67.770 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 68.981 ms
Loss rate: 2.72%
Run 6: Statistics of LEDBAT

Start at: 2018-02-04 19:26:42
End at: 2018-02-04 19:27:12
Local clock offset: -2.36 ms
Remote clock offset: 4.69 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 67.743 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 20.57 Mbit/s
95th percentile per-packet one-way delay: 67.758 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 13.56 Mbit/s
95th percentile per-packet one-way delay: 67.598 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 69.656 ms
Loss rate: 2.72%
Run 6: Report of LEDBAT — Data Link

![Graph of Throughput and Packet Delay vs Time](chart.png)
Run 7: Statistics of LEDBAT

Start at: 2018-02-04 19:49:57
End at: 2018-02-04 19:50:27
Local clock offset: -2.751 ms
Remote clock offset: 4.79 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.74 Mbit/s
95th percentile per-packet one-way delay: 67.629 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 67.654 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 13.61 Mbit/s
95th percentile per-packet one-way delay: 67.579 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 69.449 ms
Loss rate: 2.68%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-02-04 20:13:15
End at: 2018-02-04 20:13:45
Local clock offset: -2.944 ms
Remote clock offset: 4.985 ms

# Below is generated by plot.py at 2018-02-05 01:14:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.02 Mbit/s
95th percentile per-packet one-way delay: 67.680 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 16.97 Mbit/s
95th percentile per-packet one-way delay: 67.199 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 69.957 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 6.47 Mbit/s
95th percentile per-packet one-way delay: 66.975 ms
Loss rate: 2.71%
Run 9: Statistics of LEDBAT

Start at: 2018-02-04 20:36:47
End at: 2018-02-04 20:37:17
Local clock offset: -2.513 ms
Remote clock offset: 5.211 ms

# Below is generated by plot.py at 2018-02-05 01:14:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 30.03 Mbit/s
  95th percentile per-packet one-way delay: 67.325 ms
  Loss rate: 1.04%
-- Flow 1:
  Average throughput: 20.54 Mbit/s
  95th percentile per-packet one-way delay: 67.232 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 11.17 Mbit/s
  95th percentile per-packet one-way delay: 67.888 ms
  Loss rate: 1.01%
-- Flow 3:
  Average throughput: 6.55 Mbit/s
  95th percentile per-packet one-way delay: 68.199 ms
  Loss rate: 2.73%
Run 9: Report of LEDBAT — Data Link
Run 10: Statistics of LEDBAT

Start at: 2018-02-04 21:00:04
End at: 2018-02-04 21:00:34
Local clock offset: -3.244 ms
Remote clock offset: 5.087 ms

# Below is generated by plot.py at 2018-02-05 01:15:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.63 Mbit/s
95th percentile per-packet one-way delay: 67.943 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 68.040 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 67.313 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 69.970 ms
Loss rate: 2.72%
Run 1: Statistics of PCC

Start at: 2018-02-04 17:40:59
End at: 2018-02-04 17:41:29
Local clock offset: -0.432 ms
Remote clock offset: -1.564 ms

# Below is generated by plot.py at 2018-02-05 01:15:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.10 Mbit/s
  95th percentile per-packet one-way delay: 71.586 ms
  Loss rate: 4.33%
-- Flow 1:
  Average throughput: 65.67 Mbit/s
  95th percentile per-packet one-way delay: 71.025 ms
  Loss rate: 3.44%
-- Flow 2:
  Average throughput: 17.12 Mbit/s
  95th percentile per-packet one-way delay: 71.704 ms
  Loss rate: 0.90%
-- Flow 3:
  Average throughput: 30.88 Mbit/s
  95th percentile per-packet one-way delay: 73.662 ms
  Loss rate: 12.93%
Run 1: Report of PCC — Data Link

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

- Flow 1 ingress (mean 65.49 Mb/s)
- Flow 1 egress (mean 65.67 Mb/s)
- Flow 2 ingress (mean 17.15 Mb/s)
- Flow 2 egress (mean 17.32 Mb/s)
- Flow 3 ingress (mean 31.29 Mb/s)
- Flow 3 egress (mean 30.88 Mb/s)

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

- Flow 1 (95th percentile 71.03 ms)
- Flow 2 (95th percentile 71.70 ms)
- Flow 3 (95th percentile 73.66 ms)
Run 2: Statistics of PCC

Start at: 2018-02-04 18:03:46
End at: 2018-02-04 18:04:16
Local clock offset: -1.359 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-02-05 01:15:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.37 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 61.36 Mbit/s
95th percentile per-packet one-way delay: 63.643 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 55.044 ms
Loss rate: 1.06%
Run 2: Report of PCC — Data Link

![Graph showing network performance metrics over time]

- **Throughput**: This graph displays the data throughput rate for different flows, with labels indicating mean data rates.
- **Per-packet round-trip delay**: This graph shows the delay experienced by packets over time, with specific percentile values indicated for each flow.

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Run 3: Statistics of PCC

Start at: 2018-02-04 18:27:06
End at: 2018-02-04 18:27:36
Local clock offset: -1.278 ms
Remote clock offset: 1.659 ms

# Below is generated by plot.py at 2018-02-05 01:15:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.27 Mbit/s
  95th percentile per-packet one-way delay: 108.166 ms
  Loss rate: 4.34%
  -- Flow 1:
  Average throughput: 54.51 Mbit/s
  95th percentile per-packet one-way delay: 107.152 ms
  Loss rate: 3.75%
  -- Flow 2:
  Average throughput: 31.99 Mbit/s
  95th percentile per-packet one-way delay: 108.479 ms
  Loss rate: 1.06%
  -- Flow 3:
  Average throughput: 29.40 Mbit/s
  95th percentile per-packet one-way delay: 109.456 ms
  Loss rate: 13.69%
Run 3: Report of PCC — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 54.44 Mbps) — Flow 1 egress (mean 54.51 Mbps)
Flow 2 ingress (mean 32.04 Mbps) — Flow 2 egress (mean 31.99 Mbps)
Flow 3 ingress (mean 30.23 Mbps) — Flow 3 egress (mean 29.40 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 107.15 ms) — Flow 2 (95th percentile 108.48 ms) — Flow 3 (95th percentile 109.46 ms)
Run 4: Statistics of PCC

Start at: 2018-02-04 18:50:24
End at: 2018-02-04 18:50:54
Local clock offset: -1.753 ms
Remote clock offset: 3.063 ms

# Below is generated by plot.py at 2018-02-05 01:15:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 87.971 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 77.90 Mbit/s
95th percentile per-packet one-way delay: 87.936 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 88.121 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 88.559 ms
Loss rate: 1.37%
Run 4: Report of PCC — Data Link

![Data Link Throughput Graph](image1)

![Data Link Per-Packet RTT Graph](image2)
Run 5: Statistics of PCC

Start at: 2018-02-04 19:13:40
End at: 2018-02-04 19:14:10
Local clock offset: -1.989 ms
Remote clock offset: 4.198 ms

# Below is generated by plot.py at 2018-02-05 01:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.22 Mbit/s
95th percentile per-packet one-way delay: 98.776 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 63.74 Mbit/s
95th percentile per-packet one-way delay: 98.075 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 17.04 Mbit/s
95th percentile per-packet one-way delay: 98.998 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 100.506 ms
Loss rate: 1.79%
Run 5: Report of PCC — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 63.70 Mbit/s)
Flow 1 egress (mean 63.74 Mbit/s)
Flow 2 ingress (mean 17.06 Mbit/s)
Flow 2 egress (mean 17.04 Mbit/s)
Flow 3 ingress (mean 31.33 Mbit/s)
Flow 3 egress (mean 31.20 Mbit/s)

End-to-end delay (ms)

Time (s)

Flow 1 (95th percentile 98.08 ms)
Flow 2 (95th percentile 99.00 ms)
Flow 3 (95th percentile 100.51 ms)
Run 6: Statistics of PCC

Start at: 2018-02-04 19:36:54
End at: 2018-02-04 19:37:24
Local clock offset: -2.494 ms
Remote clock offset: 4.737 ms

# Below is generated by plot.py at 2018-02-05 01:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.28 Mbit/s
95th percentile per-packet one-way delay: 92.303 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 91.705 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 16.88 Mbit/s
95th percentile per-packet one-way delay: 94.871 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 99.313 ms
Loss rate: 1.64%
Run 6: Report of PCC — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 68.79 Mbps)
- Flow 1 egress (mean 68.77 Mbps)
- Flow 2 ingress (mean 16.91 Mbps)
- Flow 2 egress (mean 16.88 Mbps)
- Flow 3 ingress (mean 16.29 Mbps)
- Flow 3 egress (mean 16.27 Mbps)

Graph 2: Per-packet one way delay (ms)
- Flow 1 (95th percentile 91.70 ms)
- Flow 2 (95th percentile 94.87 ms)
- Flow 3 (95th percentile 99.31 ms)
Run 7: Statistics of PCC

Start at: 2018-02-04 20:00:10
End at: 2018-02-04 20:00:40
Local clock offset: -2.625 ms
Remote clock offset: 4.772 ms

# Below is generated by plot.py at 2018-02-05 01:16:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 88.02 Mbit/s
  95th percentile per-packet one-way delay: 107.093 ms
  Loss rate: 3.30%
-- Flow 1:
  Average throughput: 57.62 Mbit/s
  95th percentile per-packet one-way delay: 105.453 ms
  Loss rate: 2.98%
-- Flow 2:
  Average throughput: 31.15 Mbit/s
  95th percentile per-packet one-way delay: 108.057 ms
  Loss rate: 1.01%
-- Flow 3:
  Average throughput: 29.95 Mbit/s
  95th percentile per-packet one-way delay: 108.498 ms
  Loss rate: 9.46%
Run 7: Report of PCC — Data Link
Run 8: Statistics of PCC

Start at: 2018-02-04 20:23:41
End at: 2018-02-04 20:24:11
Local clock offset: -2.725 ms
Remote clock offset: 5.202 ms

# Below is generated by plot.py at 2018-02-05 01:16:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.12 Mbit/s
95th percentile per-packet one-way delay: 88.185 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 71.92 Mbit/s
95th percentile per-packet one-way delay: 87.885 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 16.29 Mbit/s
95th percentile per-packet one-way delay: 89.036 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 90.364 ms
Loss rate: 1.29%
Run 8: Report of PCC — Data Link

![Graph of throughput and round-trip time](image-url)

- Flow 1 ingress (mean 71.97 Mbit/s)
- Flow 1 egress (mean 71.92 Mbit/s)
- Flow 2 ingress (mean 16.31 Mbit/s)
- Flow 2 egress (mean 16.29 Mbit/s)
- Flow 3 ingress (mean 4.24 Mbit/s)
- Flow 3 egress (mean 4.25 Mbit/s)

![Graph of per-packet round-trip time](image-url)

- Flow 1 (95th percentile 87.89 ms)
- Flow 2 (95th percentile 89.04 ms)
- Flow 3 (95th percentile 90.36 ms)
Run 9: Statistics of PCC

Start at: 2018-02-04 20:47:01
End at: 2018-02-04 20:47:31
Local clock offset: -2.608 ms
Remote clock offset: 5.165 ms

# Below is generated by plot.py at 2018-02-05 01:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 95.082 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 70.01 Mbit/s
95th percentile per-packet one-way delay: 94.430 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 94.986 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 31.25 Mbit/s
95th percentile per-packet one-way delay: 97.742 ms
Loss rate: 1.83%
Run 9: Report of PCC — Data Link

![Graph of data link performance metrics over time.](image-url)

- **Throughput (Mbps):**
  - Flow 1 ing (mean 69.96 Mbps)
  - Flow 1 egress (mean 70.01 Mbps)
  - Flow 2 ing (mean 8.32 Mbps)
  - Flow 2 egress (mean 8.31 Mbps)
  - Flow 3 ing (mean 31.36 Mbps)
  - Flow 3 egress (mean 31.25 Mbps)

- **Per-packet one way delay (ms):**
  - Flow 1 (95th percentile 94.43 ms)
  - Flow 2 (95th percentile 94.99 ms)
  - Flow 3 (95th percentile 97.74 ms)
Run 10: Statistics of PCC

Start at: 2018-02-04 21:10:30
End at: 2018-02-04 21:11:00
Local clock offset: -2.383 ms
Remote clock offset: 5.046 ms

# Below is generated by plot.py at 2018-02-05 01:17:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.98 Mbit/s
  95th percentile per-packet one-way delay: 99.689 ms
  Loss rate: 1.14%
-- Flow 1:
  Average throughput: 58.50 Mbit/s
  95th percentile per-packet one-way delay: 98.900 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 33.21 Mbit/s
  95th percentile per-packet one-way delay: 100.092 ms
  Loss rate: 2.08%
-- Flow 3:
  Average throughput: 16.75 Mbit/s
  95th percentile per-packet one-way delay: 106.717 ms
  Loss rate: 3.87%
Run 10: Report of PCC — Data Link

![Graph 1](image1)

**Throughput (Mbit/s)**

- **Flow 1 ingress** (mean 58.47 Mbit/s)
- **Flow 1 egress** (mean 58.50 Mbit/s)
- **Flow 2 ingress** (mean 33.31 Mbit/s)
- **Flow 2 egress** (mean 33.21 Mbit/s)
- **Flow 3 ingress** (mean 16.77 Mbit/s)
- **Flow 3 egress** (mean 16.75 Mbit/s)

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![Graph 2](image2)

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

- **Flow 1** (95th percentile 98.90 ms)
- **Flow 2** (95th percentile 100.09 ms)
- **Flow 3** (95th percentile 106.72 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-04 17:25:51
End at: 2018-02-04 17:26:21
Local clock offset: ~0.773 ms
Remote clock offset: ~2.707 ms

# Below is generated by plot.py at 2018-02-05 01:17:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 79.089 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 23.13 Mbit/s
95th percentile per-packet one-way delay: 79.001 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 77.653 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 20.32 Mbit/s
95th percentile per-packet one-way delay: 80.374 ms
Loss rate: 3.06%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-04 17:48:39
End at: 2018-02-04 17:49:09
Local clock offset: -0.573 ms
Remote clock offset: -0.995 ms

# Below is generated by plot.py at 2018-02-05 01:17:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.46 Mbit/s
95th percentile per-packet one-way delay: 64.236 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.246 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 63.828 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 65.094 ms
Loss rate: 1.17%
Run 2: Report of QUIC Cubic — Data Link

![Graph of Throughput (Mbps) over Time (s) for different flows.]

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)
- Flow 2 ingress (mean 56.95 Mbit/s)
- Flow 2 egress (mean 56.78 Mbit/s)
- Flow 3 ingress (mean 29.80 Mbit/s)
- Flow 3 egress (mean 29.84 Mbit/s)

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

- Flow 1 (95th percentile 38.25 ms)
- Flow 2 (95th percentile 63.83 ms)
- Flow 3 (95th percentile 65.09 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-02-04 18:11:25
End at: 2018-02-04 18:11:55
Local clock offset: -0.817 ms
Remote clock offset: 0.574 ms

# Below is generated by plot.py at 2018-02-05 01:17:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.98 Mbit/s
  95th percentile per-packet one-way delay: 69.265 ms
  Loss rate: 0.79%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 38.873 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 57.05 Mbit/s
  95th percentile per-packet one-way delay: 68.267 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 37.07 Mbit/s
  95th percentile per-packet one-way delay: 70.322 ms
  Loss rate: 0.39%
Run 3: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)
- Flow 2 ingress (mean 57.24 Mbit/s)
- Flow 2 egress (mean 57.05 Mbit/s)
- Flow 3 ingress (mean 36.78 Mbit/s)
- Flow 3 egress (mean 37.07 Mbit/s)

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

- Flow 1 (95th percentile 38.87 ms)
- Flow 2 (95th percentile 68.27 ms)
- Flow 3 (95th percentile 70.32 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-04 18:34:57
End at: 2018-02-04 18:35:27
Local clock offset: -1.206 ms
Remote clock offset: 2.191 ms

# Below is generated by plot.py at 2018-02-05 01:17:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 56.73 Mbit/s
  95th percentile per-packet one-way delay: 99.107 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 40.08 Mbit/s
  95th percentile per-packet one-way delay: 97.522 ms
  Loss rate: 0.20%
-- Flow 2:
  Average throughput: 14.40 Mbit/s
  95th percentile per-packet one-way delay: 102.487 ms
  Loss rate: 2.30%
-- Flow 3:
  Average throughput: 21.70 Mbit/s
  95th percentile per-packet one-way delay: 103.972 ms
  Loss rate: 2.91%
Run 4: Report of QUIC Cubic — Data Link

[Graph showing throughput and round-trip time for different flows with various labels and legends.]

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Run 5: Statistics of QUIC Cubic

Start at: 2018-02-04 18:58:15
End at: 2018-02-04 18:58:45
Local clock offset: -2.1 ms
Remote clock offset: 3.435 ms

# Below is generated by plot.py at 2018-02-05 01:17:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 62.74 Mbit/s
  95th percentile per-packet one-way delay: 89.938 ms
  Loss rate: 0.79%
-- Flow 1:
  Average throughput: 40.26 Mbit/s
  95th percentile per-packet one-way delay: 89.891 ms
  Loss rate: 0.70%
-- Flow 2:
  Average throughput: 29.75 Mbit/s
  95th percentile per-packet one-way delay: 90.279 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 8.40 Mbit/s
  95th percentile per-packet one-way delay: 84.373 ms
  Loss rate: 1.10%
Run 5: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for three flows with different ingress and egress mean speeds.]

- Flow 1 ingress (mean 40.35 Mbit/s)
- Flow 1 egress (mean 40.26 Mbit/s)
- Flow 2 ingress (mean 29.83 Mbit/s)
- Flow 2 egress (mean 29.75 Mbit/s)
- Flow 3 ingress (mean 8.37 Mbit/s)
- Flow 3 egress (mean 8.40 Mbit/s)
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-04 19:21:29
End at: 2018-02-04 19:21:59
Local clock offset: -2.096 ms
Remote clock offset: 4.489 ms

# Below is generated by plot.py at 2018-02-05 01:17:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 88.000 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.886 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 87.986 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 88.194 ms
Loss rate: 2.26%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-04 19:44:44
End at: 2018-02-04 19:45:14
Local clock offset: -2.867 ms
Remote clock offset: 4.77 ms

# Below is generated by plot.py at 2018-02-05 01:17:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.77 Mbit/s
95th percentile per-packet one-way delay: 95.708 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.319 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 95.306 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 35.57 Mbit/s
95th percentile per-packet one-way delay: 96.200 ms
Loss rate: 2.26%
Run 7: Report of QUIC Cubic — Data Link
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-04 20:08:01
End at: 2018-02-04 20:08:31
Local clock offset: -5.622 ms
Remote clock offset: 4.893 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.96 Mbit/s
95th percentile per-packet one-way delay: 103.716 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 103.463 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 103.164 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 31.71 Mbit/s
95th percentile per-packet one-way delay: 104.855 ms
Loss rate: 2.33%
Run 8: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps)**
  - **Flow 1 ingress (mean 24.75 Mbps)**
  - **Flow 1 egress (mean 24.81 Mbps)**
  - **Flow 2 ingress (mean 41.95 Mbps)**
  - **Flow 2 egress (mean 41.90 Mbps)**
  - **Flow 3 ingress (mean 31.90 Mbps)**
  - **Flow 3 egress (mean 31.71 Mbps)**

- **Per-packet one-way delay (ms)**
  - **Flow 1 (95th percentile 103.46 ms)**
  - **Flow 2 (95th percentile 103.16 ms)**
  - **Flow 3 (95th percentile 104.86 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-04 20:31:34
End at: 2018-02-04 20:32:04
Local clock offset: -3.212 ms
Remote clock offset: 5.22 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 96.403 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 96.565 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 41.18 Mbit/s
95th percentile per-packet one-way delay: 96.213 ms
Loss rate: 2.03%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-04 20:54:51
End at: 2018-02-04 20:55:21
Local clock offset: -3.084 ms
Remote clock offset: 5.078 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 33.04 Mbit/s
  95th percentile per-packet one-way delay: 86.986 ms
  Loss rate: 1.55%
-- Flow 1:
  Average throughput: 0.04 Mbit/s
  95th percentile per-packet one-way delay: 65.315 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 45.96 Mbit/s
  95th percentile per-packet one-way delay: 86.848 ms
  Loss rate: 1.50%
-- Flow 3:
  Average throughput: 7.79 Mbit/s
  95th percentile per-packet one-way delay: 88.050 ms
  Loss rate: 2.19%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-02-04 17:33:30
End at: 2018-02-04 17:34:00
Local clock offset: -0.454 ms
Remote clock offset: -2.155 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 38.963 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.667 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.992 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.733 ms
Loss rate: 1.11%
Run 1: Report of SCReAM — Data Link

Throughput (Mb/s)

Time (s)

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

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 38.67 ms)  Flow 2 (95th percentile 38.99 ms)  Flow 3 (95th percentile 38.73 ms)
Run 2: Statistics of SCReAM

Start at: 2018-02-04 17:56:17  
End at: 2018-02-04 17:56:47  
Local clock offset: -0.611 ms  
Remote clock offset: -0.409 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 38.760 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.548 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.784 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 38.772 ms
Loss rate: 1.11%
Run 2: Report of SCReAM — Data Link

![Graphs showing throughput and per-packet one-way delay with legend.]

- Throughput (Mbps) vs. Time (s)
- Per-packet one-way delay (ms) vs. Time (s)
Run 3: Statistics of SCReAM

Start at: 2018-02-04 18:19:27
End at: 2018-02-04 18:19:57
Local clock offset: -1.244 ms
Remote clock offset: 1.139 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.283 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.285 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.293 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.634 ms
Loss rate: 1.11%
Run 3: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.22 Mbit/s)
- Flow 1 egress (mean 0.22 Mbit/s)
- Flow 2 ingress (mean 0.22 Mbit/s)
- Flow 2 egress (mean 0.22 Mbit/s)
- Flow 3 ingress (mean 0.22 Mbit/s)
- Flow 3 egress (mean 0.22 Mbit/s)
Run 4: Statistics of SCReAM

Start at: 2018-02-04 18:42:45
End at: 2018-02-04 18:43:15
Local clock offset: -1.997 ms
Remote clock offset: 2.71 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 65.601 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.530 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.536 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.698 ms
Loss rate: 1.11%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-02-04 19:06:02
End at: 2018-02-04 19:06:32
Local clock offset: -4.836 ms
Remote clock offset: 3.874 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 63.329 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.318 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.346 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.080 ms
  Loss rate: 1.11%
Run 5: Report of SCReAM — Data Link

![Graph 1](Image 1)

Throughput (Mbps)

Time (s)

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

![Graph 2](Image 2)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 63.32 ms)
Flow 2 (95th percentile 63.35 ms)
Flow 3 (95th percentile 63.08 ms)
Run 6: Statistics of SCReAM

Start at: 2018-02-04 19:29:16
End at: 2018-02-04 19:29:46
Local clock offset: -2.275 ms
Remote clock offset: 4.681 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.508 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.865 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.544 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.495 ms
Loss rate: 1.11%
Run 6: Report of SCReAM — Data Link

![Graph showing throughput and delay over time for different flows.](image-url)
Run 7: Statistics of SCReAM

Start at: 2018-02-04 19:52:31
End at: 2018-02-04 19:53:01
Local clock offset: -2.47 ms
Remote clock offset: 4.799 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.425 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.831 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.452 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.807 ms
Loss rate: 1.11%
Run 7: Report of SCReAM — Data Link

[Graph showing throughput and packet delay for three flows over time]
Run 8: Statistics of SCReAM

Start at: 2018-02-04 20:15:51
End at: 2018-02-04 20:16:21
Local clock offset: -2.724 ms
Remote clock offset: 5.061 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 66.029 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.761 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 66.059 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.748 ms
  Loss rate: 1.12%
Run 9: Statistics of SCReAM

Start at: 2018-02-04 20:39:22
End at: 2018-02-04 20:39:52
Local clock offset: -2.559 ms
Remote clock offset: 5.245 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.376 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.756 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.417 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.770 ms
Loss rate: 1.11%
Run 9: Report of SCReAM — Data Link

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

**Throughput (Mbps)**

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

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

- Flow 1 (95th percentile 65.76 ms)
- Flow 2 (95th percentile 66.42 ms)
- Flow 3 (95th percentile 65.77 ms)
Run 10: Statistics of SCReAM

Start at: 2018-02-04 21:02:39
End at: 2018-02-04 21:03:09
Local clock offset: -2.764 ms
Remote clock offset: 5.075 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 65.828 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.847 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.399 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.751 ms
Loss rate: 1.11%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of WebRTC media

Start at: 2018-02-04 17:37:13
End at: 2018-02-04 17:37:43
Local clock offset: -0.381 ms
Remote clock offset: -1.855 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.60 Mbit/s
95th percentile per-packet one-way delay: 39.703 ms
Loss rate: 0.60%

-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 39.745 ms
Loss rate: 0.62%

-- Flow 2:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 39.160 ms
Loss rate: 0.37%

-- Flow 3:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 40.104 ms
Loss rate: 1.10%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-02-04 18:00:00  
End at: 2018-02-04 18:00:31  
Local clock offset: -0.505 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-02-05 01:18:16  
# Datalink statistics

<table>
<thead>
<tr>
<th></th>
<th>Average throughput</th>
<th>95th percentile per-packet one-way delay</th>
<th>Loss rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of 3 flows</td>
<td>4.55 Mbit/s</td>
<td>39.995 ms</td>
<td>0.56%</td>
</tr>
<tr>
<td>Flow 1</td>
<td>2.46 Mbit/s</td>
<td>39.889 ms</td>
<td>0.36%</td>
</tr>
<tr>
<td>Flow 2</td>
<td>1.67 Mbit/s</td>
<td>40.115 ms</td>
<td>0.55%</td>
</tr>
<tr>
<td>Flow 3</td>
<td>0.67 Mbit/s</td>
<td>39.999 ms</td>
<td>1.39%</td>
</tr>
</tbody>
</table>
Run 2: Report of WebRTC media — Data Link

Graph 1: Throughput over time (Mbps)

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

Legend:
- Flow 1 ingress (mean 2.47 Mbps)
- Flow 1 egress (mean 2.46 Mbps)
- Flow 2 ingress (mean 1.08 Mbps)
- Flow 2 egress (mean 1.67 Mbps)
- Flow 3 ingress (mean 0.67 Mbps)
- Flow 3 egress (mean 0.67 Mbps)
Run 3: Statistics of WebRTC media

Start at: 2018-02-04 18:23:15
End at: 2018-02-04 18:23:45
Local clock offset: -1.372 ms
Remote clock offset: 1.359 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 66.591 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 66.808 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 67.177 ms
Loss rate: 2.14%
Run 3: Report of WebRTC media — Data Link

![Graph showing throughput and latency over time for three different flows.](image-url)
Run 4: Statistics of WebRTC media

Start at: 2018-02-04 18:46:33
End at: 2018-02-04 18:47:03
Local clock offset: -1.532 ms
Remote clock offset: 2.818 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.48 Mbit/s
  95th percentile per-packet one-way delay: 66.893 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 2.46 Mbit/s
  95th percentile per-packet one-way delay: 66.915 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 1.56 Mbit/s
  95th percentile per-packet one-way delay: 66.568 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 67.303 ms
  Loss rate: 1.78%
Run 4: Report of WebRTC media — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per packet one way delay (ms)

Legend:
- Flow 1 ingress (mean 2.47 Mbit/s)
- Flow 1 egress (mean 2.46 Mbit/s)
- Flow 2 ingress (mean 1.56 Mbit/s)
- Flow 2 egress (mean 1.56 Mbit/s)
- Flow 3 ingress (mean 0.64 Mbit/s)
- Flow 3 egress (mean 0.63 Mbit/s)
Run 5: Statistics of WebRTC media

Start at: 2018-02-04 19:09:49
End at: 2018-02-04 19:10:19
Local clock offset: -2.19 ms
Remote clock offset: 4.03 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 67.056 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 67.016 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 66.401 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 67.690 ms
Loss rate: 1.05%
Run 5: Report of WebRTC media — Data Link
Run 6: Statistics of WebRTC media

Start at: 2018-02-04 19:33:04
End at: 2018-02-04 19:33:34
Local clock offset: -2.563 ms
Remote clock offset: 4.651 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 66.957 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 67.006 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 66.652 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 67.339 ms
Loss rate: 1.66%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-02-04 19:56:19
End at: 2018-02-04 19:56:49
Local clock offset: -2.622 ms
Remote clock offset: 4.774 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.48 Mbit/s
95th percentile per-packet one-way delay: 67.126 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 67.036 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 67.295 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 67.020 ms
Loss rate: 1.56%
Run 7: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 2.46 Mbit/s)
Flow 1 egress (mean 2.45 Mbit/s)
Flow 2 ingress (mean 1.59 Mbit/s)
Flow 2 egress (mean 1.58 Mbit/s)
Flow 3 ingress (mean 0.64 Mbit/s)
Flow 3 egress (mean 0.64 Mbit/s)

Per packet one way delay [ms]

Time (s)

Flow 1 (95th percentile 67.04 ms)
Flow 2 (95th percentile 67.30 ms)
Flow 3 (95th percentile 67.02 ms)
Run 8: Statistics of WebRTC media

Start at: 2018-02-04 20:19:48
End at: 2018-02-04 20:20:18
Local clock offset: -2.896 ms
Remote clock offset: 5.121 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 66.900 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 66.840 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 66.919 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 67.165 ms
Loss rate: 1.84%
Run 8: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 2.45 Mbit/s)
  - Flow 1 egress (mean 2.45 Mbit/s)
  - Flow 2 ingress (mean 1.59 Mbit/s)
  - Flow 2 egress (mean 1.58 Mbit/s)
  - Flow 3 ingress (mean 0.61 Mbit/s)
  - Flow 3 egress (mean 0.61 Mbit/s)

- **Per packet one-way delay (ms):**
  - Flow 1 (95th percentile 66.84 ms)
  - Flow 2 (95th percentile 66.92 ms)
  - Flow 3 (95th percentile 67.17 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-02-04 20:43:10
End at: 2018-02-04 20:43:40
Local clock offset: -2.67 ms
Remote clock offset: 5.183 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 66.512 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 66.486 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 66.430 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 66.766 ms
Loss rate: 2.80%
Run 9: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 2.50 Mbit/s)**
- **Flow 1 egress (mean 2.50 Mbit/s)**
- **Flow 2 ingress (mean 1.57 Mbit/s)**
- **Flow 2 egress (mean 1.56 Mbit/s)**
- **Flow 3 ingress (mean 0.62 Mbit/s)**
- **Flow 3 egress (mean 0.61 Mbit/s)**
Run 10: Statistics of WebRTC media

Start at: 2018-02-04 21:06:38
End at: 2018-02-04 21:07:08
Local clock offset: -3.061 ms
Remote clock offset: 5.042 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 66.374 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 66.173 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 66.613 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 66.563 ms
Loss rate: 2.39%
Run 10: Report of WebRTC media — Data Link
Run 1: Statistics of Sprout

Start at: 2018-02-04 17:34:42
End at: 2018-02-04 17:35:12
Local clock offset: -0.888 ms
Remote clock offset: -2.035 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 44.678 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 7.66 Mbit/s
95th percentile per-packet one-way delay: 44.876 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 44.347 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 7.33 Mbit/s
95th percentile per-packet one-way delay: 44.680 ms
Loss rate: 1.35%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Start at: 2018-02-04 17:57:29
End at: 2018-02-04 17:57:59
Local clock offset: -0.578 ms
Remote clock offset: -0.414 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.96 Mbit/s
95th percentile per-packet one-way delay: 45.200 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 44.686 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 44.975 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 48.536 ms
Loss rate: 1.36%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-02-04 18:20:40
End at: 2018-02-04 18:21:10
Local clock offset: -3.931 ms
Remote clock offset: 1.249 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 70.269 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.91 Mbit/s
95th percentile per-packet one-way delay: 68.692 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 72.099 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 70.263 ms
Loss rate: 1.72%
Run 3: Report of Sprout — Data Link

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**Graph 1:**
- **Y-axis:** Throughput (Mbps)
- **X-axis:** Time (s)
- Lines represent:
  - Flow 1 ingress (mean 5.92 Mbps)
  - Flow 1 egress (mean 5.91 Mbps)
  - Flow 2 ingress (mean 5.35 Mbps)
  - Flow 2 egress (mean 5.33 Mbps)
  - Flow 3 ingress (mean 5.46 Mbps)
  - Flow 3 egress (mean 5.43 Mbps)

**Graph 2:**
- **Y-axis:** Per-packet one-way delay (ms)
- **X-axis:** Time (s)
- Markers represent:
  - Flow 1 (95th percentile 68.69 ms)
  - Flow 2 (95th percentile 72.10 ms)
  - Flow 3 (95th percentile 70.26 ms)
Run 4: Statistics of Sprout

Start at: 2018-02-04 18:43:58
End at: 2018-02-04 18:44:28
Local clock offset: -1.474 ms
Remote clock offset: 2.764 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 71.818 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 71.613 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 71.679 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 72.807 ms
Loss rate: 2.21%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-02-04 19:07:15
End at: 2018-02-04 19:07:45
Local clock offset: -2.253 ms
Remote clock offset: 3.906 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 74.161 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 73.298 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 75.087 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 5.12 Mbit/s
95th percentile per-packet one-way delay: 74.873 ms
Loss rate: 1.92%
Run 5: Report of Sprout — Data Link

[Graphs showing network data over time]
Run 6: Statistics of Sprout

Start at: 2018-02-04 19:30:29
End at: 2018-02-04 19:30:59
Local clock offset: -2.54 ms
Remote clock offset: 4.687 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.55 Mbit/s
  95th percentile per-packet one-way delay: 71.333 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 5.98 Mbit/s
  95th percentile per-packet one-way delay: 70.984 ms
  Loss rate: 0.55%
-- Flow 2:
  Average throughput: 5.71 Mbit/s
  95th percentile per-packet one-way delay: 71.556 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 5.44 Mbit/s
  95th percentile per-packet one-way delay: 72.167 ms
  Loss rate: 0.31%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-02-04 19:53:44
End at: 2018-02-04 19:54:14
Local clock offset: -2.608 ms
Remote clock offset: 4.759 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.53 Mbit/s
  95th percentile per-packet one-way delay: 71.456 ms
  Loss rate: 0.79%
-- Flow 1:
  Average throughput: 5.88 Mbit/s
  95th percentile per-packet one-way delay: 71.862 ms
  Loss rate: 0.55%
-- Flow 2:
  Average throughput: 6.04 Mbit/s
  95th percentile per-packet one-way delay: 70.978 ms
  Loss rate: 0.81%
-- Flow 3:
  Average throughput: 5.03 Mbit/s
  95th percentile per-packet one-way delay: 71.076 ms
  Loss rate: 1.59%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-02-04 20:17:04
End at: 2018-02-04 20:17:34
Local clock offset: -3.25 ms
Remote clock offset: 5.056 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 70.982 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 5.74 Mbit/s
95th percentile per-packet one-way delay: 70.883 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 70.733 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 72.112 ms
Loss rate: 1.57%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-02-04 20:40:35
End at: 2018-02-04 20:41:05
Local clock offset: -2.759 ms
Remote clock offset: 5.286 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 70.900 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 70.714 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 5.80 Mbit/s
95th percentile per-packet one-way delay: 70.498 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 4.95 Mbit/s
95th percentile per-packet one-way delay: 72.713 ms
Loss rate: 1.34%
Run 9: Report of Sprout — Data Link
Run 10: Statistics of Sprout

Start at: 2018-02-04 21:03:52
End at: 2018-02-04 21:04:22
Local clock offset: -2.925 ms
Remote clock offset: 5.107 ms

# Below is generated by plot.py at 2018-02-05 01:18:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 70.672 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 70.621 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 70.821 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 70.636 ms
Loss rate: 1.60%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-04 17:35:54
End at: 2018-02-04 17:36:24
Local clock offset: -0.076 ms
Remote clock offset: -1.973 ms

# Below is generated by plot.py at 2018-02-05 01:20:18
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 84.83 Mbit/s
 95th percentile per-packet one-way delay: 68.948 ms
 Loss rate: 3.23%
-- Flow 1:
 Average throughput: 50.99 Mbit/s
 95th percentile per-packet one-way delay: 67.997 ms
 Loss rate: 2.45%
-- Flow 2:
 Average throughput: 36.85 Mbit/s
 95th percentile per-packet one-way delay: 69.200 ms
 Loss rate: 4.12%
-- Flow 3:
 Average throughput: 28.48 Mbit/s
 95th percentile per-packet one-way delay: 71.447 ms
 Loss rate: 5.04%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-04 17:58:41
End at: 2018-02-04 17:59:11
Local clock offset: -0.655 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-02-05 01:20:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 83.40 Mbit/s
  95th percentile per-packet one-way delay: 70.628 ms
  Loss rate: 2.55%
-- Flow 1:
  Average throughput: 50.93 Mbit/s
  95th percentile per-packet one-way delay: 68.053 ms
  Loss rate: 1.89%
-- Flow 2:
  Average throughput: 38.77 Mbit/s
  95th percentile per-packet one-way delay: 71.161 ms
  Loss rate: 3.04%
-- Flow 3:
  Average throughput: 27.33 Mbit/s
  95th percentile per-packet one-way delay: 76.930 ms
  Loss rate: 5.39%
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-04 18:21:53
End at: 2018-02-04 18:22:23
Local clock offset: -1.696 ms
Remote clock offset: 1.268 ms

# Below is generated by plot.py at 2018-02-05 01:20:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.97 Mbit/s
  95th percentile per-packet one-way delay: 94.220 ms
  Loss rate: 2.22%
-- Flow 1:
  Average throughput: 53.56 Mbit/s
  95th percentile per-packet one-way delay: 93.735 ms
  Loss rate: 1.48%
-- Flow 2:
  Average throughput: 35.05 Mbit/s
  95th percentile per-packet one-way delay: 94.353 ms
  Loss rate: 3.02%
-- Flow 3:
  Average throughput: 27.84 Mbit/s
  95th percentile per-packet one-way delay: 95.370 ms
  Loss rate: 4.38%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbps/s)

Flow 1 ingress (mean 54.12 Mbps/s)
Flow 1 egress (mean 53.56 Mbps/s)
Flow 2 ingress (mean 35.90 Mbps/s)
Flow 2 egress (mean 35.05 Mbps/s)
Flow 3 ingress (mean 28.69 Mbps/s)
Flow 3 egress (mean 27.84 Mbps/s)

Per-packet one way delay (ms)

Flow 1 (95th percentile 93.73 ms)
Flow 2 (95th percentile 94.35 ms)
Flow 3 (95th percentile 95.37 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-04 18:45:12
End at: 2018-02-04 18:45:42
Local clock offset: -1.607 ms
Remote clock offset: 2.813 ms

# Below is generated by plot.py at 2018-02-05 01:20:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 93.594 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 54.93 Mbit/s
95th percentile per-packet one-way delay: 91.114 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 94.137 ms
Loss rate: 3.18%
-- Flow 3:
Average throughput: 19.77 Mbit/s
95th percentile per-packet one-way delay: 95.876 ms
Loss rate: 5.23%
Run 4: Report of TaoVA-100x — Data Link
Run 5: Statistics of TaoVA-100x

Start at: 2018-02-04 19:08:28
End at: 2018-02-04 19:08:58
Local clock offset: -2.608 ms
Remote clock offset: 3.98 ms

# Below is generated by plot.py at 2018-02-05 01:20:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 88.018 ms
Loss rate: 3.11%
-- Flow 1:
Average throughput: 63.49 Mbit/s
95th percentile per-packet one-way delay: 84.732 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 44.86 Mbit/s
95th percentile per-packet one-way delay: 89.048 ms
Loss rate: 3.51%
-- Flow 3:
Average throughput: 40.00 Mbit/s
95th percentile per-packet one-way delay: 88.934 ms
Loss rate: 4.70%
Run 5: Report of TaoVA-100x — Data Link

**Graph 1:**
- **Y-axis:** Throughput (MBit/s)
- **X-axis:** Time (s)
- Legends:
  - Blue dashed line: Flow 1 ingress (mean 65.00 MBit/s)
  - Blue solid line: Flow 1 egress (mean 63.49 MBit/s)
  - Green dashed line: Flow 2 ingress (mean 46.17 MBit/s)
  - Green solid line: Flow 2 egress (mean 44.86 MBit/s)
  - Red dashed line: Flow 3 ingress (mean 41.42 MBit/s)
  - Red solid line: Flow 3 egress (mean 40.00 MBit/s)

**Graph 2:**
- **Y-axis:** Per-packet one-way delay (ms)
- **X-axis:** Time (s)
- Legend:
  - Blue dot: Flow 1 (95th percentile 84.73 ms)
  - Green dot: Flow 2 (95th percentile 89.05 ms)
  - Red dot: Flow 3 (95th percentile 88.93 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-02-04 19:31:43
End at: 2018-02-04 19:32:13
Local clock offset: -2.557 ms
Remote clock offset: 4.731 ms

# Below is generated by plot.py at 2018-02-05 01:20:31
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 87.33 Mbit/s
  95th percentile per-packet one-way delay: 94.411 ms
  Loss rate: 1.90%
-- Flow 1:
  Average throughput: 53.71 Mbit/s
  95th percentile per-packet one-way delay: 93.707 ms
  Loss rate: 1.21%
-- Flow 2:
  Average throughput: 36.00 Mbit/s
  95th percentile per-packet one-way delay: 94.381 ms
  Loss rate: 2.49%
-- Flow 3:
  Average throughput: 29.52 Mbit/s
  95th percentile per-packet one-way delay: 95.789 ms
  Loss rate: 4.16%
Run 6: Report of TaoVA-100x — Data Link

![Graphs showing data link performance metrics for flows 1, 2, and 3. The graphs display throughput and per-packet delay over time.]
Run 7: Statistics of TaoVA-100x

Start at: 2018-02-04 19:54:58
Local clock offset: -2.456 ms
Remote clock offset: 4.752 ms

# Below is generated by plot.py at 2018-02-05 01:20:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.03 Mbit/s
95th percentile per-packet one-way delay: 94.501 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 51.87 Mbit/s
95th percentile per-packet one-way delay: 92.340 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 94.636 ms
Loss rate: 2.57%
-- Flow 3:
Average throughput: 29.57 Mbit/s
95th percentile per-packet one-way delay: 96.777 ms
Loss rate: 4.29%
Run 7: Report of TaoVA-100x — Data Link

Data Link Throughput and Delay Analysis

![Graph showing data link throughput and delay analysis for Run 7 with TaoVA-100x.

- Throughput (Mbps):
  - Flow 1 ingress (mean 52.26 Mbps): Blue line
  - Flow 1 egress (mean 51.87 Mbps): Blue line
  - Flow 2 ingress (mean 39.04 Mbps): Green line
  - Flow 2 egress (mean 36.30 Mbps): Green line
  - Flow 3 ingress (mean 30.45 Mbps): Red line
  - Flow 3 egress (mean 29.57 Mbps): Red line

- Delay (ms):
  - Flow 1 (95th percentile 92.34 ms): Blue line
  - Flow 2 (95th percentile 94.64 ms): Green line
  - Flow 3 (95th percentile 96.78 ms): Red line

This graph illustrates the throughput and delay for different flows during the data link analysis of Run 7 using TaoVA-100x.
Run 8: Statistics of TaoVA-100x

Start at: 2018-02-04 20:18:18
End at: 2018-02-04 20:18:48
Local clock offset: -2.696 ms
Remote clock offset: 5.064 ms

# Below is generated by plot.py at 2018-02-05 01:20:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 89.777 ms
Loss rate: 4.96%
-- Flow 1:
Average throughput: 55.22 Mbit/s
95th percentile per-packet one-way delay: 87.894 ms
Loss rate: 3.90%
-- Flow 2:
Average throughput: 31.16 Mbit/s
95th percentile per-packet one-way delay: 91.781 ms
Loss rate: 6.06%
-- Flow 3:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 94.775 ms
Loss rate: 13.61%
Run 8: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 57.19 Mbps/s)
- Flow 1 egress (mean 55.22 Mbps/s)
- Flow 2 ingress (mean 32.95 Mbps/s)
- Flow 2 egress (mean 31.16 Mbps/s)
- Flow 3 ingress (mean 12.59 Mbps/s)
- Flow 3 egress (mean 11.04 Mbps/s)

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

- Flow 1 (95th percentile 87.89 ms)
- Flow 2 (95th percentile 91.78 ms)
- Flow 3 (95th percentile 94.78 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-02-04 20:41:49
End at: 2018-02-04 20:42:19
Local clock offset: -2.501 ms
Remote clock offset: 5.176 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.55 Mbit/s
95th percentile per-packet one-way delay: 93.847 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 53.53 Mbit/s
95th percentile per-packet one-way delay: 91.135 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 94.366 ms
Loss rate: 4.19%
-- Flow 3:
Average throughput: 32.22 Mbit/s
95th percentile per-packet one-way delay: 97.234 ms
Loss rate: 6.50%
Run 9: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 54.61 Mbps/s)
- Flow 1 egress (mean 53.53 Mbps/s)
- Flow 2 ingress (mean 32.03 Mbps/s)
- Flow 2 egress (mean 30.91 Mbps/s)
- Flow 3 ingress (mean 33.99 Mbps/s)
- Flow 3 egress (mean 32.22 Mbps/s)

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

- Flow 1 (95th percentile 91.14 ms)
- Flow 2 (95th percentile 94.37 ms)
- Flow 3 (95th percentile 97.23 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-04 21:05:06
End at: 2018-02-04 21:05:36
Local clock offset: -2.445 ms
Remote clock offset: 5.035 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.02 Mbit/s
95th percentile per-packet one-way delay: 93.412 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 51.12 Mbit/s
95th percentile per-packet one-way delay: 90.833 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 33.91 Mbit/s
95th percentile per-packet one-way delay: 94.280 ms
Loss rate: 4.86%
-- Flow 3:
Average throughput: 25.43 Mbit/s
95th percentile per-packet one-way delay: 96.516 ms
Loss rate: 8.64%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-02-04 17:39:43
End at: 2018-02-04 17:40:13
Local clock offset: -0.903 ms
Remote clock offset: -1.72 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 70.169 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 80.40 Mbit/s
95th percentile per-packet one-way delay: 67.168 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 69.942 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 73.854 ms
Loss rate: 3.72%
Run 1: Report of TCP Vegas — Data Link

![Graph 1: Throughput (Mbps) over time]

- **Flow 1 ingress** (mean 80.31 Mbps)
- **Flow 1 egress** (mean 80.40 Mbps)
- **Flow 2 ingress** (mean 12.08 Mbps)
- **Flow 2 egress** (mean 12.10 Mbps)
- **Flow 3 ingress** (mean 39.02 Mbps)
- **Flow 3 egress** (mean 38.50 Mbps)

![Graph 2: Per-packet round-trip delay (ms) over time]

- **Flow 1 (95th percentile 67.17 ms)**
- **Flow 2 (95th percentile 69.94 ms)**
- **Flow 3 (95th percentile 73.85 ms)**
Run 2: Statistics of TCP Vegas

Start at: 2018-02-04 18:02:30
End at: 2018-02-04 18:03:00
Local clock offset: -0.96 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 94.65 Mbit/s
  95th percentile per-packet one-way delay: 69.598 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 61.81 Mbit/s
  95th percentile per-packet one-way delay: 68.764 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 48.31 Mbit/s
  95th percentile per-packet one-way delay: 70.699 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 10.42 Mbit/s
  95th percentile per-packet one-way delay: 70.323 ms
  Loss rate: 7.11%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-02-04 18:25:48
End at: 2018-02-04 18:26:18
Local clock offset: -1.201 ms
Remote clock offset: 1.589 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 86.337 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 85.565 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 41.58 Mbit/s
95th percentile per-packet one-way delay: 87.322 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 88.260 ms
Loss rate: 1.43%
Run 3: Report of TCP Vegas — Data Link

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

![Graph 2: Per-packet one-way delay (ms)]
Run 4: Statistics of TCP Vegas

Start at: 2018-02-04 18:49:06
End at: 2018-02-04 18:49:36
Local clock offset: -1.628 ms
Remote clock offset: 3.0 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.99 Mbit/s
  95th percentile per-packet one-way delay: 79.074 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 58.22 Mbit/s
  95th percentile per-packet one-way delay: 78.991 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 28.98 Mbit/s
  95th percentile per-packet one-way delay: 79.051 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 10.69 Mbit/s
  95th percentile per-packet one-way delay: 80.640 ms
  Loss rate: 1.48%
Run 4: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 58.22 Mbit/s)
- Flow 1 egress (mean 58.22 Mbit/s)
- Flow 2 ingress (mean 28.98 Mbit/s)
- Flow 2 egress (mean 28.98 Mbit/s)
- Flow 3 ingress (mean 10.69 Mbit/s)
- Flow 3 egress (mean 10.69 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 78.99 ms)
- Flow 2 (95th percentile 79.05 ms)
- Flow 3 (95th percentile 80.64 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-02-04 19:12:23
End at: 2018-02-04 19:12:53
Local clock offset: -2.836 ms
Remote clock offset: 4.135 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.82 Mbit/s
95th percentile per-packet one-way delay: 78.322 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 78.237 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 48.24 Mbit/s
95th percentile per-packet one-way delay: 78.573 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 77.838 ms
Loss rate: 1.92%
Run 5: Report of TCP Vegas — Data Link

![Graph showing network performance metrics over time. The graphs depict throughput and per-packet one-way delay for different flows (1, 2, 3). The legends indicate the mean throughput for each flow: Flow 1 ingress (45.25 Mbit/s), Flow 1 egress (45.28 Mbit/s), Flow 2 ingress (48.25 Mbit/s), Flow 2 egress (48.24 Mbit/s), Flow 3 ingress (7.63 Mbit/s), Flow 3 egress (7.60 Mbit/s).]
Run 6: Statistics of TCP Vegas

Start at: 2018-02-04 19:35:37
End at: 2018-02-04 19:36:07
Local clock offset: -2.769 ms
Remote clock offset: 4.714 ms

# Below is generated by plot.py at 2018-02-05 01:22:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.25 Mbit/s
  95th percentile per-packet one-way delay: 90.371 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 50.80 Mbit/s
  95th percentile per-packet one-way delay: 89.484 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 42.40 Mbit/s
  95th percentile per-packet one-way delay: 91.051 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 9.99 Mbit/s
  95th percentile per-packet one-way delay: 92.257 ms
  Loss rate: 1.73%
Run 7: Statistics of TCP Vegas

Start at: 2018-02-04 19:58:53
End at: 2018-02-04 19:59:23
Local clock offset: -2.901 ms
Remote clock offset: 4.819 ms

# Below is generated by plot.py at 2018-02-05 01:22:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 90.943 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 47.78 Mbit/s
95th percentile per-packet one-way delay: 87.366 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 93.404 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 84.233 ms
Loss rate: 1.50%
Run 7: Report of TCP Vegas — Data Link

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

![Graph 2: Delay vs Time](image2)
Run 8: Statistics of TCP Vegas

End at: 2018-02-04 20:22:52
Local clock offset: -3.066 ms
Remote clock offset: 5.219 ms

# Below is generated by plot.py at 2018-02-05 01:22:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.44 Mbit/s
95th percentile per-packet one-way delay: 87.871 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 86.522 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 44.70 Mbit/s
95th percentile per-packet one-way delay: 90.209 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 10.30 Mbit/s
95th percentile per-packet one-way delay: 90.732 ms
Loss rate: 1.43%
Run 8: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress** (mean 48.34 Mbit/s)
- **Flow 1 egress** (mean 48.36 Mbit/s)
- **Flow 2 ingress** (mean 44.71 Mbit/s)
- **Flow 2 egress** (mean 44.70 Mbit/s)
- **Flow 3 ingress** (mean 10.30 Mbit/s)
- **Flow 3 egress** (mean 10.30 Mbit/s)

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

- **Flow 1** (95th percentile 86.52 ms)
- **Flow 2** (95th percentile 90.21 ms)
- **Flow 3** (95th percentile 90.73 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-02-04 20:45:43
End at: 2018-02-04 20:46:13
Local clock offset: -2.722 ms
Remote clock offset: 5.148 ms

# Below is generated by plot.py at 2018-02-05 01:22:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.49 Mbit/s
95th percentile per-packet one-way delay: 101.611 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 45.09 Mbit/s
95th percentile per-packet one-way delay: 100.500 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 45.31 Mbit/s
95th percentile per-packet one-way delay: 101.892 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 19.30 Mbit/s
95th percentile per-packet one-way delay: 104.739 ms
Loss rate: 1.85%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-02-04 21:09:12
End at: 2018-02-04 21:09:42
Local clock offset: -2.36 ms
Remote clock offset: 5.032 ms

# Below is generated by plot.py at 2018-02-05 01:22:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.15 Mbit/s
  95th percentile per-packet one-way delay: 90.027 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 50.91 Mbit/s
  95th percentile per-packet one-way delay: 88.921 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 42.21 Mbit/s
  95th percentile per-packet one-way delay: 90.438 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 9.76 Mbit/s
  95th percentile per-packet one-way delay: 92.182 ms
  Loss rate: 1.60%
Run 1: Statistics of Verus

Start at: 2018-02-04 17:24:34
End at: 2018-02-04 17:25:04
Local clock offset: -0.53 ms
Remote clock offset: -2.755 ms

# Below is generated by plot.py at 2018-02-05 01:22:56
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 79.91 Mbit/s
  95th percentile per-packet one-way delay: 77.508 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 49.22 Mbit/s
  95th percentile per-packet one-way delay: 73.359 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 33.82 Mbit/s
  95th percentile per-packet one-way delay: 78.197 ms
  Loss rate: 0.97%
-- Flow 3:
  Average throughput: 25.20 Mbit/s
  95th percentile per-packet one-way delay: 80.273 ms
  Loss rate: 0.01%
Run 2: Statistics of Verus

Start at: 2018-02-04 17:47:22
End at: 2018-02-04 17:47:52
Local clock offset: -0.405 ms
Remote clock offset: -1.073 ms

# Below is generated by plot.py at 2018-02-05 01:23:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 85.67 Mbit/s
  95th percentile per-packet one-way delay: 80.402 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 51.33 Mbit/s
  95th percentile per-packet one-way delay: 79.274 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 40.71 Mbit/s
  95th percentile per-packet one-way delay: 80.508 ms
  Loss rate: 0.87%
-- Flow 3:
  Average throughput: 22.31 Mbit/s
  95th percentile per-packet one-way delay: 82.199 ms
  Loss rate: 0.01%
Run 2: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 51.34 Mbps)
  - Flow 1 egress (mean 51.33 Mbps)
  - Flow 2 ingress (mean 40.82 Mbps)
  - Flow 2 egress (mean 40.71 Mbps)
  - Flow 3 ingress (mean 21.99 Mbps)
  - Flow 3 egress (mean 22.31 Mbps)

- **Latency (ms):**
  - Flow 1 (95th percentile 79.27 ms)
  - Flow 2 (95th percentile 80.51 ms)
  - Flow 3 (95th percentile 82.20 ms)
Run 3: Statistics of Verus

Start at: 2018-02-04 18:10:08
End at: 2018-02-04 18:10:38
Local clock offset: -0.95 ms
Remote clock offset: 0.545 ms

# Below is generated by plot.py at 2018-02-05 01:23:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.73 Mbit/s
95th percentile per-packet one-way delay: 79.167 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 49.97 Mbit/s
95th percentile per-packet one-way delay: 77.424 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 39.88 Mbit/s
95th percentile per-packet one-way delay: 79.430 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 80.737 ms
Loss rate: 1.89%
Run 3: Report of Verus — Data Link

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

- Flow 1 ingress (mean 49.93 Mbit/s)
- Flow 1 egress (mean 49.97 Mbit/s)
- Flow 2 ingress (mean 39.84 Mbit/s)
- Flow 2 egress (mean 39.88 Mbit/s)
- Flow 3 ingress (mean 25.40 Mbit/s)
- Flow 3 egress (mean 25.28 Mbit/s)
Run 4: Statistics of Verus

Start at: 2018-02-04 18:33:39
End at: 2018-02-04 18:34:09
Local clock offset: -1.366 ms
Remote clock offset: 2.064 ms

# Below is generated by plot.py at 2018-02-05 01:23:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.26 Mbit/s
95th percentile per-packet one-way delay: 106.503 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 44.04 Mbit/s
95th percentile per-packet one-way delay: 104.380 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 28.48 Mbit/s
95th percentile per-packet one-way delay: 106.936 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 108.519 ms
Loss rate: 1.89%
Run 4: Report of Verus — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 44.01 Mbps)
  - Flow 2 ingress (mean 28.56 Mbps)
  - Flow 3 ingress (mean 31.42 Mbps)
  - Flow 1 egress (mean 44.04 Mbps)
  - Flow 2 egress (mean 28.48 Mbps)
  - Flow 3 egress (mean 31.29 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 104.38 ms)
  - Flow 2 (95th percentile 106.94 ms)
  - Flow 3 (95th percentile 108.52 ms)
Run 5: Statistics of Verus

Start at: 2018-02-04 18:56:56
End at: 2018-02-04 18:57:26
Local clock offset: -1.968 ms
Remote clock offset: 3.401 ms

# Below is generated by plot.py at 2018-02-05 01:24:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.71 Mbit/s
  95th percentile per-packet one-way delay: 106.094 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 52.78 Mbit/s
  95th percentile per-packet one-way delay: 102.714 ms
  Loss rate: 0.21%
-- Flow 2:
  Average throughput: 28.33 Mbit/s
  95th percentile per-packet one-way delay: 106.924 ms
  Loss rate: 1.12%
-- Flow 3:
  Average throughput: 27.72 Mbit/s
  95th percentile per-packet one-way delay: 108.695 ms
  Loss rate: 2.42%
Run 5: Report of Verus — Data Link
Run 6: Statistics of Verus

Start at: 2018-02-04 19:20:10
End at: 2018-02-04 19:20:40
Local clock offset: -5.061 ms
Remote clock offset: 4.458 ms

# Below is generated by plot.py at 2018-02-05 01:24:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 74.64 Mbit/s
  95th percentile per-packet one-way delay: 104.680 ms
  Loss rate: 0.78%
-- Flow 1:
  Average throughput: 43.53 Mbit/s
  95th percentile per-packet one-way delay: 103.474 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 34.92 Mbit/s
  95th percentile per-packet one-way delay: 104.696 ms
  Loss rate: 0.79%
-- Flow 3:
  Average throughput: 24.10 Mbit/s
  95th percentile per-packet one-way delay: 106.257 ms
  Loss rate: 2.36%
Run 6: Report of Verus — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, with legend indicating mean throughput and 95th percentile delay for each flow.]
Run 7: Statistics of Verus

Start at: 2018-02-04 19:43:26
End at: 2018-02-04 19:43:56
Local clock offset: -2.778 ms
Remote clock offset: 4.744 ms

# Below is generated by plot.py at 2018-02-05 01:24:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 103.737 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 45.11 Mbit/s
95th percentile per-packet one-way delay: 98.831 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 39.26 Mbit/s
95th percentile per-packet one-way delay: 104.299 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 18.74 Mbit/s
95th percentile per-packet one-way delay: 108.071 ms
Loss rate: 1.73%
Run 7: Report of Verus — Data Link

![Graph showing network performance metrics](image)

**Throughput per Flow**
- Flow 1 ingress (mean 44.90 Mbit/s)
- Flow 1 egress (mean 45.11 Mbit/s)
- Flow 2 ingress (mean 39.37 Mbit/s)
- Flow 2 egress (mean 39.26 Mbit/s)
- Flow 3 ingress (mean 18.74 Mbit/s)
- Flow 3 egress (mean 18.74 Mbit/s)

**Per-packet one way delay**
- Flow 1 (95th percentile 98.83 ms)
- Flow 2 (95th percentile 104.30 ms)
- Flow 3 (95th percentile 108.07 ms)
Run 8: Statistics of Verus

Start at: 2018-02-04 20:06:42
End at: 2018-02-04 20:07:12
Local clock offset: -2.643 ms
Remote clock offset: 6.801 ms

# Below is generated by plot.py at 2018-02-05 01:24:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 105.521 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 103.665 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.67 Mbit/s
95th percentile per-packet one-way delay: 105.977 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 107.692 ms
Loss rate: 0.03%
Run 8: Report of Verus — Data Link

![Graph of throughput and per-packet one-way delay over time for flows 1 to 3, showing their ingress and egress rates.](image-url)

- **Flow 1 ingress (mean 47.94 Mbit/s)**
- **Flow 1 egress (mean 48.14 Mbit/s)**
- **Flow 2 ingress (mean 35.11 Mbit/s)**
- **Flow 2 egress (mean 34.67 Mbit/s)**
- **Flow 3 ingress (mean 20.20 Mbit/s)**
- **Flow 3 egress (mean 20.47 Mbit/s)**

![Graph of per-packet one-way delay over time for flows 1 to 3, showing the 95th percentile times.](image-url)

- **Flow 1 (95th percentile 103.67 ms)**
- **Flow 2 (95th percentile 105.98 ms)**
- **Flow 3 (95th percentile 107.69 ms)**
Run 9: Statistics of Verus

Start at: 2018-02-04 20:30:15
End at: 2018-02-04 20:30:45
Local clock offset: -3.169 ms
Remote clock offset: 5.194 ms

# Below is generated by plot.py at 2018-02-05 01:24:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.21 Mbit/s
95th percentile per-packet one-way delay: 106.976 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 106.080 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 33.61 Mbit/s
95th percentile per-packet one-way delay: 107.037 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 108.505 ms
Loss rate: 2.47%
Run 9: Report of Verus — Data Link

**Throughput (Mbit/s)**

- Flow 1 ingress (mean 45.21 Mbit/s)
- Flow 1 egress (mean 45.27 Mbit/s)
- Flow 2 ingress (mean 33.62 Mbit/s)
- Flow 2 egress (mean 33.61 Mbit/s)
- Flow 3 ingress (mean 23.45 Mbit/s)
- Flow 3 egress (mean 23.25 Mbit/s)

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

- Flow 1 (95th percentile 106.08 ms)
- Flow 2 (95th percentile 107.04 ms)
- Flow 3 (95th percentile 108.50 ms)
Run 10: Statistics of Verus

Start at: 2018-02-04 20:53:32
End at: 2018-02-04 20:54:02
Local clock offset: -2.493 ms
Remote clock offset: 5.075 ms

# Below is generated by plot.py at 2018-02-05 01:24:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 107.092 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 41.36 Mbit/s
95th percentile per-packet one-way delay: 105.424 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.79 Mbit/s
95th percentile per-packet one-way delay: 107.078 ms
Loss rate: 1.52%
-- Flow 3:
Average throughput: 21.42 Mbit/s
95th percentile per-packet one-way delay: 109.379 ms
Loss rate: 1.69%
Run 10: Report of Verus — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 41.17 Mbps)
- Flow 2 ingress (mean 43.15 Mbps)
- Flow 3 ingress (mean 21.39 Mbps)
- Flow 1 egress (mean 41.36 Mbps)
- Flow 2 egress (mean 42.79 Mbps)
- Flow 3 egress (mean 21.42 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 105.42 ms)
- Flow 2 (95th percentile 107.08 ms)
- Flow 3 (95th percentile 109.38 ms)
Run 1: Statistics of Copa

Start at: 2018-02-04 17:42:15
End at: 2018-02-04 17:42:45
Local clock offset: -1.003 ms
Remote clock offset: -1.494 ms

# Below is generated by plot.py at 2018-02-05 01:25:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.28 Mbit/s
95th percentile per-packet one-way delay: 40.150 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 39.806 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 40.218 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 15.54 Mbit/s
95th percentile per-packet one-way delay: 41.863 ms
Loss rate: 2.26%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-02-04 18:05:01
End at: 2018-02-04 18:05:31
Local clock offset: -3.631 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-02-05 01:25:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.77 Mbit/s
95th percentile per-packet one-way delay: 37.549 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 37.225 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 37.682 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 39.730 ms
Loss rate: 1.20%
Run 2: Report of Copa — Data Link

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

- **Flow 1 ingress (mean 39.30 Mbit/s)**
- **Flow 1 egress (mean 39.35 Mbit/s)**
- **Flow 2 ingress (mean 26.29 Mbit/s)**
- **Flow 2 egress (mean 26.32 Mbit/s)**
- **Flow 3 ingress (mean 21.11 Mbit/s)**
- **Flow 3 egress (mean 21.07 Mbit/s)**

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

- **Flow 1 (95th percentile 37.23 ms)**
- **Flow 2 (95th percentile 37.68 ms)**
- **Flow 3 (95th percentile 39.73 ms)**
Run 3: Statistics of Copa

Start at: 2018-02-04 18:28:23
End at: 2018-02-04 18:28:53
Local clock offset: -1.221 ms
Remote clock offset: 1.738 ms

# Below is generated by plot.py at 2018-02-05 01:25:36
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 61.02 Mbit/s
  95th percentile per-packet one-way delay: 67.322 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 37.93 Mbit/s
  95th percentile per-packet one-way delay: 67.064 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 27.52 Mbit/s
  95th percentile per-packet one-way delay: 67.682 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 14.64 Mbit/s
  95th percentile per-packet one-way delay: 67.705 ms
  Loss rate: 1.69%
Run 3: Report of Copa — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 37.88 Mb/s)
Flow 1 egress (mean 37.93 Mb/s)
Flow 2 ingress (mean 27.53 Mb/s)
Flow 2 egress (mean 27.52 Mb/s)
Flow 3 ingress (mean 14.69 Mb/s)
Flow 3 egress (mean 14.64 Mb/s)

Per packet one-way delay [ms]

Time (s)

Flow 1 (95th percentile 67.06 ms)
Flow 2 (95th percentile 67.68 ms)
Flow 3 (95th percentile 67.70 ms)
Run 4: Statistics of Copa

Start at: 2018-02-04 18:51:41
End at: 2018-02-04 18:52:11
Local clock offset: -2.02 ms
Remote clock offset: 3.11 ms

# Below is generated by plot.py at 2018-02-05 01:25:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 66.822 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 66.494 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 30.37 Mbit/s
95th percentile per-packet one-way delay: 67.270 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 67.035 ms
Loss rate: 1.90%
Run 4: Report of Copa — Data Link

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

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

Legend:
- Flow 1 ingress (mean 33.25 Mbit/s)
- Flow 1 egress (mean 33.31 Mbit/s)
- Flow 2 ingress (mean 30.37 Mbit/s)
- Flow 2 egress (mean 30.77 Mbit/s)
- Flow 3 ingress (mean 15.32 Mbit/s)
- Flow 3 egress (mean 15.23 Mbit/s)

Legend for delay:
- Flow 1 (95th percentile 66.49 ms)
- Flow 2 (95th percentile 67.27 ms)
- Flow 3 (95th percentile 67.03 ms)
Run 5: Statistics of Copa

Start at: 2018-02-04 19:14:57
End at: 2018-02-04 19:15:27
Local clock offset: -4.812 ms
Remote clock offset: 4.239 ms

# Below is generated by plot.py at 2018-02-05 01:25:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 65.646 ms
Loss rate: 0.64%

-- Flow 1:
Average throughput: 35.40 Mbit/s
95th percentile per-packet one-way delay: 64.947 ms
Loss rate: 0.41%

-- Flow 2:
Average throughput: 33.02 Mbit/s
95th percentile per-packet one-way delay: 66.603 ms
Loss rate: 0.67%

-- Flow 3:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 65.409 ms
Loss rate: 2.13%
Run 5: Report of Copa — Data Link

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

Legend:
- Blue line: Flow 1 ingress (mean 35.40 Mbit/s) and egress (mean 35.40 Mbit/s)
- Green line: Flow 2 ingress (mean 33.02 Mbit/s) and egress (mean 33.02 Mbit/s)
- Red line: Flow 3 ingress (mean 15.64 Mbit/s) and egress (mean 15.52 Mbit/s)

Additional notes:

- Flow 1 (95th percentile 64.95 ms)
- Flow 2 (95th percentile 66.60 ms)
- Flow 3 (95th percentile 65.41 ms)
Run 6: Statistics of Copa

Start at: 2018-02-04 19:38:11
End at: 2018-02-04 19:38:41
Local clock offset: -2.265 ms
Remote clock offset: 4.73 ms

# Below is generated by plot.py at 2018-02-05 01:25:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 67.450 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 66.793 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 67.958 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 68.002 ms
Loss rate: 2.20%
Run 6: Report of Copa — Data Link

---

**Throughput (Mbit/s)**

- Flow 1 ingress (mean 30.06 Mbit/s)
- Flow 1 egress (mean 30.08 Mbit/s)
- Flow 2 ingress (mean 30.92 Mbit/s)
- Flow 2 egress (mean 30.93 Mbit/s)
- Flow 3 ingress (mean 11.90 Mbit/s)
- Flow 3 egress (mean 11.79 Mbit/s)

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

- Flow 1 (95th percentile 66.79 ms)
- Flow 2 (95th percentile 67.96 ms)
- Flow 3 (95th percentile 68.00 ms)
Run 7: Statistics of Copa

Start at: 2018-02-04 20:01:27
End at: 2018-02-04 20:01:57
Local clock offset: -2.437 ms
Remote clock offset: 4.852 ms

# Below is generated by plot.py at 2018-02-05 01:25:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.95 Mbit/s
  95th percentile per-packet one-way delay: 67.510 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 29.55 Mbit/s
  95th percentile per-packet one-way delay: 67.067 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 27.27 Mbit/s
  95th percentile per-packet one-way delay: 67.801 ms
  Loss rate: 0.73%
-- Flow 3:
  Average throughput: 19.11 Mbit/s
  95th percentile per-packet one-way delay: 68.100 ms
  Loss rate: 1.94%
Run 7: Report of Copa — Data Link
Run 8: Statistics of Copa

Start at: 2018-02-04 20:24:58
End at: 2018-02-04 20:25:28
Local clock offset: -3.14 ms
Remote clock offset: 5.174 ms

# Below is generated by plot.py at 2018-02-05 01:25:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 58.96 Mbit/s
  95th percentile per-packet one-way delay: 66.859 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 34.78 Mbit/s
  95th percentile per-packet one-way delay: 66.430 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 29.16 Mbit/s
  95th percentile per-packet one-way delay: 67.274 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 14.65 Mbit/s
  95th percentile per-packet one-way delay: 67.696 ms
  Loss rate: 2.02%
Run 8: Report of Copa — Data Link

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

Legend:
- Blue line with markers: Flow 1 ingress (mean 34.72 Mbit/s)
- Blue line with stars: Flow 1 egress (mean 34.78 Mbit/s)
- Green line with markers: Flow 2 ingress (mean 29.17 Mbit/s)
- Green line with stars: Flow 2 egress (mean 29.16 Mbit/s)
- Pink line with markers: Flow 3 ingress (mean 14.75 Mbit/s)
- Pink line with stars: Flow 3 egress (mean 14.65 Mbit/s)

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

Legend:
- Blue markers: Flow 1 (95th percentile 66.43 ms)
- Green markers: Flow 2 (95th percentile 67.27 ms)
- Red markers: Flow 3 (95th percentile 67.70 ms)
Run 9: Statistics of Copa

Start at: 2018-02-04 20:48:18
End at: 2018-02-04 20:48:48
Local clock offset: -3.1 ms
Remote clock offset: 5.12 ms

# Below is generated by plot.py at 2018-02-05 01:26:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.36 Mbit/s
95th percentile per-packet one-way delay: 66.865 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 66.513 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 23.79 Mbit/s
95th percentile per-packet one-way delay: 67.189 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 14.37 Mbit/s
95th percentile per-packet one-way delay: 67.444 ms
Loss rate: 1.58%
Run 9: Report of Copa — Data Link

![Graph showing network performance metrics over time for different flows, including throughput and per-packet one-way delay.]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 38.78 Mbps)
  - Flow 1 egress (mean 38.82 Mbps)
  - Flow 2 ingress (mean 23.78 Mbps)
  - Flow 2 egress (mean 23.79 Mbps)
  - Flow 3 ingress (mean 14.41 Mbps)
  - Flow 3 egress (mean 14.37 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 66.51 ms)
  - Flow 2 (95th percentile 67.19 ms)
  - Flow 3 (95th percentile 67.44 ms)
Run 10: Statistics of Copa

Start at: 2018-02-04 21:11:48
End at: 2018-02-04 21:12:18
Local clock offset: -2.689 ms
Remote clock offset: 5.059 ms

# Below is generated by plot.py at 2018-02-05 01:26:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.36 Mbit/s
95th percentile per-packet one-way delay: 67.331 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 66.806 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 30.39 Mbit/s
95th percentile per-packet one-way delay: 67.854 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 15.18 Mbit/s
95th percentile per-packet one-way delay: 68.098 ms
Loss rate: 1.72%
Run 10: Report of Copa — Data Link

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

- Flow 1 ingress (mean 35.15 Mbps/s)
- Flow 1 egress (mean 36.19 Mbps/s)
- Flow 2 ingress (mean 30.38 Mbps/s)
- Flow 2 egress (mean 30.39 Mbps/s)
- Flow 3 ingress (mean 15.23 Mbps/s)
- Flow 3 egress (mean 15.18 Mbps/s)

![Graph 2: Packet Delay (ms) vs Time (s)]

- Flow 1 (95th percentile 66.81 ms)
- Flow 2 (95th percentile 67.85 ms)
- Flow 3 (95th percentile 68.10 ms)
Run 1: Statistics of FillP

Start at: 2018-02-04 17:38:25
End at: 2018-02-04 17:38:55
Local clock offset: -3.147 ms
Remote clock offset: -1.791 ms

# Below is generated by plot.py at 2018-02-05 01:27:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 66.280 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 55.55 Mbit/s
95th percentile per-packet one-way delay: 64.996 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 66.411 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 68.222 ms
Loss rate: 7.58%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbit/s)**
  - Blue line: Flow 1 ingress (mean 55.48 Mbit/s)
  - Green line: Flow 1 egress (mean 55.55 Mbit/s)
  - Red line: Flow 2 ingress (mean 38.28 Mbit/s)
  - Pink line: Flow 2 egress (mean 38.30 Mbit/s)
  - Purple line: Flow 3 ingress (mean 29.59 Mbit/s)
  - Pink line: Flow 3 egress (mean 20.90 Mbit/s)

- **Per packet one way delay (ms)**
  - Blue dots: Flow 1 (95th percentile 65.00 ms)
  - Green dots: Flow 2 (95th percentile 66.41 ms)
  - Red dots: Flow 3 (95th percentile 68.22 ms)
Run 2: Statistics of FillP

Start at: 2018-02-04 18:01:12
End at: 2018-02-04 18:01:42
Local clock offset: -1.229 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-02-05 01:27:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 68.573 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 55.23 Mbit/s
95th percentile per-packet one-way delay: 67.040 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 38.57 Mbit/s
95th percentile per-packet one-way delay: 68.769 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 29.13 Mbit/s
95th percentile per-packet one-way delay: 70.457 ms
Loss rate: 5.58%
Run 2: Report of FillP — Data Link

![Graph showing throughput and per-packet round-trip delay over time.]
Run 3: Statistics of FillP

Start at: 2018-02-04 18:24:28
End at: 2018-02-04 18:24:58
Local clock offset: -1.093 ms
Remote clock offset: 1.453 ms

# Below is generated by plot.py at 2018-02-05 01:28:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 96.530 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 55.42 Mbit/s
95th percentile per-packet one-way delay: 95.354 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 96.770 ms
Loss rate: 4.72%
-- Flow 3:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 97.973 ms
Loss rate: 9.62%
Run 3: Report of FillP — Data Link
Run 4: Statistics of FillIP

Start at: 2018-02-04 18:47:47
End at: 2018-02-04 18:48:17
Local clock offset: -2.309 ms
Remote clock offset: 2.913 ms

# Below is generated by plot.py at 2018-02-05 01:28:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 95.994 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 94.882 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.06 Mbit/s
95th percentile per-packet one-way delay: 96.165 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 28.76 Mbit/s
95th percentile per-packet one-way delay: 97.581 ms
Loss rate: 6.69%
Run 4: Report of FillP — Data Link

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

**Legend:**
- Blue dashed line: Flow 1 ingress (mean 55.37 Mbit/s)
- Blue solid line: Flow 1 egress (mean 55.44 Mbit/s)
- Green dashed line: Flow 2 ingress (mean 38.03 Mbit/s)
- Green solid line: Flow 2 egress (mean 38.06 Mbit/s)
- Red dashed line: Flow 3 ingress (mean 29.16 Mbit/s)
- Red solid line: Flow 3 egress (mean 20.76 Mbit/s)

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

**Legend:**
- Blue circle: Flow 1 (95th percentile 94.88 ms)
- Green circle: Flow 2 (95th percentile 96.17 ms)
- Red circle: Flow 3 (95th percentile 97.58 ms)
Run 5: Statistics of FillP

Start at: 2018-02-04 19:11:03
End at: 2018-02-04 19:11:33
Local clock offset: -2.283 ms
Remote clock offset: 4.063 ms

# Below is generated by plot.py at 2018-02-05 01:28:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 89.97 Mbit/s
  95th percentile per-packet one-way delay: 95.811 ms
  Loss rate: 3.10%
-- Flow 1:
  Average throughput: 55.20 Mbit/s
  95th percentile per-packet one-way delay: 94.558 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 38.31 Mbit/s
  95th percentile per-packet one-way delay: 95.870 ms
  Loss rate: 4.61%
-- Flow 3:
  Average throughput: 28.61 Mbit/s
  95th percentile per-packet one-way delay: 97.760 ms
  Loss rate: 13.31%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Start at: 2018-02-04 19:34:17  
End at: 2018-02-04 19:34:48  
Local clock offset: -2.632 ms  
Remote clock offset: 4.664 ms

# Below is generated by plot.py at 2018-02-05 01:28:09  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 89.99 Mbit/s  
  95th percentile per-packet one-way delay: 95.579 ms  
  Loss rate: 1.36%  
-- Flow 1:  
  Average throughput: 55.12 Mbit/s  
  95th percentile per-packet one-way delay: 94.171 ms  
  Loss rate: 1.06%  
-- Flow 2:  
  Average throughput: 38.30 Mbit/s  
  95th percentile per-packet one-way delay: 95.782 ms  
  Loss rate: 0.83%  
-- Flow 3:  
  Average throughput: 28.87 Mbit/s  
  95th percentile per-packet one-way delay: 97.856 ms  
  Loss rate: 4.45%
Run 6: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 54.88 Mbps)
  - Flow 1 egress (mean 55.12 Mbps)
  - Flow 2 ingress (mean 38.30 Mbps)
  - Flow 2 egress (mean 38.30 Mbps)
  - Flow 3 ingress (mean 28.87 Mbps)
  - Flow 3 egress (mean 20.87 Mbps)

- **Delay (ms)**
  - Flow 1 (95th percentile 94.17 ms)
  - Flow 2 (95th percentile 95.78 ms)
  - Flow 3 (95th percentile 97.86 ms)
Run 7: Statistics of FillP

Start at: 2018-02-04 19:57:33
End at: 2018-02-04 19:58:03
Local clock offset: -5.418 ms
Remote clock offset: 4.738 ms

# Below is generated by plot.py at 2018-02-05 01:29:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 93.515 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 55.39 Mbit/s
95th percentile per-packet one-way delay: 91.947 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.07 Mbit/s
95th percentile per-packet one-way delay: 93.962 ms
Loss rate: 3.15%
-- Flow 3:
Average throughput: 28.71 Mbit/s
95th percentile per-packet one-way delay: 95.623 ms
Loss rate: 7.85%
Run 7: Report of FillP — Data Link
Run 8: Statistics of FillP

Start at: 2018-02-04 20:21:02
End at: 2018-02-04 20:21:32
Local clock offset: -2.598 ms
Remote clock offset: 5.107 ms

# Below is generated by plot.py at 2018-02-05 01:29:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 96.342 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 55.43 Mbit/s
95th percentile per-packet one-way delay: 94.916 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 96.683 ms
Loss rate: 2.21%
-- Flow 3:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 98.147 ms
Loss rate: 3.29%
Run 8: Report of FillP — Data Link

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

- **Flow 1 (mean 55.33 Mbit/s)**
- **Flow 2 (mean 37.80 Mbit/s)**
- **Flow 3 (mean 28.74 Mbit/s)**

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

- **Flow 1 (95th percentile 94.92 ms)**
- **Flow 2 (95th percentile 96.68 ms)**
- **Flow 3 (95th percentile 98.15 ms)**

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Run 9: Statistics of FillP

Start at: 2018-02-04 20:44:23
End at: 2018-02-04 20:44:53
Local clock offset: -2.714 ms
Remote clock offset: 5.177 ms

# Below is generated by plot.py at 2018-02-05 01:30:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 95.909 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 94.568 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 95.903 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 28.63 Mbit/s
95th percentile per-packet one-way delay: 98.108 ms
Loss rate: 8.56%
Run 9: Report of FillP — Data Link

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

![Graph 2: Per-Packet One-Way Delay vs Time](image2)
Run 10: Statistics of FillP

Start at: 2018-02-04 21:07:51
End at: 2018-02-04 21:08:21
Local clock offset: -3.167 ms
Remote clock offset: 5.071 ms

# Below is generated by plot.py at 2018-02-05 01:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 96.024 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 95.150 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 38.67 Mbit/s
95th percentile per-packet one-way delay: 96.143 ms
Loss rate: 3.88%
-- Flow 3:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 97.347 ms
Loss rate: 9.79%
Run 10: Report of FillIP — Data Link
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-04 17:44:47
End at: 2018-02-04 17:45:17
Local clock offset: -0.671 ms
Remote clock offset: -1.311 ms

# Below is generated by plot.py at 2018-02-05 01:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 64.646 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 79.83 Mbit/s
95th percentile per-packet one-way delay: 63.887 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 66.293 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.18 Mbit/s
95th percentile per-packet one-way delay: 66.485 ms
Loss rate: 1.01%
Run 1: Report of Indigo-1-32 — Data Link

![Graph 1: Throughput vs. Time](image1)
- Flow 1 ingress (mean 79.81 Mbit/s)
- Flow 1 egress (mean 79.83 Mbit/s)
- Flow 2 ingress (mean 9.50 Mbit/s)
- Flow 2 egress (mean 9.51 Mbit/s)
- Flow 3 ingress (mean 23.14 Mbit/s)
- Flow 3 egress (mean 23.18 Mbit/s)

![Graph 2: Per-packet one-way delay vs. Time](image2)
- Flow 1 (95th percentile 63.89 ms)
- Flow 2 (95th percentile 66.29 ms)
- Flow 3 (95th percentile 66.48 ms)
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-04 18:07:33  
End at: 2018-02-04 18:08:03  
Local clock offset: -1.039 ms  
Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2018-02-05 01:30:30  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 61.799 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 60.97 Mbit/s
95th percentile per-packet one-way delay: 59.823 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 64.328 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 22.17 Mbit/s
95th percentile per-packet one-way delay: 66.981 ms
Loss rate: 1.15%
Run 2: Report of Indigo-1-32 — Data Link

[Graph showing data link performance with time and throughput metrics.]
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-04 18:31:00
End at: 2018-02-04 18:31:30
Local clock offset: -1.277 ms
Remote clock offset: 1.944 ms

# Below is generated by plot.py at 2018-02-05 01:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.72 Mbit/s
95th percentile per-packet one-way delay: 92.097 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 90.787 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 21.57 Mbit/s
95th percentile per-packet one-way delay: 93.770 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 25.03 Mbit/s
95th percentile per-packet one-way delay: 97.069 ms
Loss rate: 1.46%
Run 3: Report of Indigo-1-32 — Data Link

![Graph showing network performance metrics]

- Flow 1 ingress (mean 70.26 Mbit/s)
- Flow 1 egress (mean 70.33 Mbit/s)
- Flow 2 ingress (mean 21.55 Mbit/s)
- Flow 2 egress (mean 21.57 Mbit/s)
- Flow 3 ingress (mean 25.06 Mbit/s)
- Flow 3 egress (mean 25.03 Mbit/s)

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

- Flow 1 (95th percentile 90.79 ms)
- Flow 2 (95th percentile 93.77 ms)
- Flow 3 (95th percentile 97.07 ms)
Run 4: Statistics of Indigo-1-32

Start at: 2018-02-04 18:54:17
End at: 2018-02-04 18:54:47
Local clock offset: -1.738 ms
Remote clock offset: 3.279 ms

# Below is generated by plot.py at 2018-02-05 01:30:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 91.704 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 73.22 Mbit/s
95th percentile per-packet one-way delay: 91.215 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 23.14 Mbit/s
95th percentile per-packet one-way delay: 93.325 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 89.974 ms
Loss rate: 1.46%
Run 4: Report of Indigo-1-32 — Data Link

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

- **Flow 1 ingress** (mean 73.18 Mbit/s)
- **Flow 1 egress** (mean 73.22 Mbit/s)
- **Flow 2 ingress** (mean 23.12 Mbit/s)
- **Flow 2 egress** (mean 23.14 Mbit/s)
- **Flow 3 ingress** (mean 12.55 Mbit/s)
- **Flow 3 egress** (mean 12.54 Mbit/s)

- **Flow 1 (95th percentile 91.22 ms)**
- **Flow 2 (95th percentile 93.33 ms)**
- **Flow 3 (95th percentile 89.97 ms)**

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Run 5: Statistics of Indigo-1-32

Start at: 2018-02-04 19:17:32  
End at: 2018-02-04 19:18:02  
Local clock offset: -1.993 ms  
Remote clock offset: 4.345 ms

# Below is generated by plot.py at 2018-02-05 01:30:37  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 89.375 ms
Loss rate: 0.51%

-- Flow 1:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 87.517 ms
Loss rate: 0.34%

-- Flow 2:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 91.496 ms
Loss rate: 0.66%

-- Flow 3:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 95.754 ms
Loss rate: 1.53%
Run 5: Report of Indigo-1-32 — Data Link

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

- Flow 1 ingress (mean 61.77 Mbit/s)
- Flow 1 egress (mean 61.82 Mbit/s)
- Flow 2 ingress (mean 28.37 Mbit/s)
- Flow 2 egress (mean 28.37 Mbit/s)
- Flow 3 ingress (mean 24.59 Mbit/s)
- Flow 3 egress (mean 24.57 Mbit/s)

![Graph 2: Delay vs Time](image2)

- Flow 1 (95th percentile 87.52 ms)
- Flow 2 (95th percentile 91.50 ms)
- Flow 3 (95th percentile 95.75 ms)
Run 6: Statistics of Indigo-1-32

Start at: 2018-02-04 19:40:47
End at: 2018-02-04 19:41:17
Local clock offset: -2.526 ms
Remote clock offset: 4.765 ms

# Below is generated by plot.py at 2018-02-05 01:30:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 95.357 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 61.04 Mbit/s
95th percentile per-packet one-way delay: 93.315 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 33.64 Mbit/s
95th percentile per-packet one-way delay: 96.934 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 99.924 ms
Loss rate: 1.61%
Run 6: Report of Indigo-1-32 — Data Link

Graph 1: Throughput (Mbps)

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

Legend:
- Flow 1 ingress (mean 60.95 Mbps)
- Flow 1 egress (mean 61.09 Mbps)
- Flow 2 ingress (mean 33.61 Mbps)
- Flow 2 egress (mean 33.65 Mbps)
- Flow 3 ingress (mean 24.65 Mbps)
- Flow 3 egress (mean 24.02 Mbps)
Run 7: Statistics of Indigo-1-32

Start at: 2018-02-04 20:04:04
End at: 2018-02-04 20:04:34
Local clock offset: -2.738 ms
Remote clock offset: 4.863 ms

# Below is generated by plot.py at 2018-02-05 01:30:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.25 Mbit/s
  95th percentile per-packet one-way delay: 87.753 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 79.54 Mbit/s
  95th percentile per-packet one-way delay: 87.212 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 12.56 Mbit/s
  95th percentile per-packet one-way delay: 90.467 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 13.52 Mbit/s
  95th percentile per-packet one-way delay: 90.664 ms
  Loss rate: 1.40%
Run 7: Report of Indigo-1-32 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 79.51 Mbit/s)
Flow 1 egress (mean 79.54 Mbit/s)
Flow 2 ingress (mean 12.56 Mbit/s)
Flow 2 egress (mean 12.56 Mbit/s)
Flow 3 ingress (mean 13.52 Mbit/s)
Flow 3 egress (mean 13.52 Mbit/s)

Packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 87.21 ms)
Flow 2 (95th percentile 90.47 ms)
Flow 3 (95th percentile 90.66 ms)
Run 8: Statistics of Indigo-1-32

Start at: 2018-02-04 20:27:36
End at: 2018-02-04 20:28:06
Local clock offset: -2.681 ms
Remote clock offset: 5.18 ms

# Below is generated by plot.py at 2018-02-05 01:30:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.57 Mbit/s
95th percentile per-packet one-way delay: 92.223 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 36.27 Mbit/s
95th percentile per-packet one-way delay: 91.169 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 92.900 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 89.937 ms
Loss rate: 1.55%
Run 8: Report of Indigo-1-32 — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 35.23 Mbps)
  - Flow 1 egress (mean 36.27 Mbps)
  - Flow 2 ingress (mean 36.85 Mbps)
  - Flow 2 egress (mean 36.84 Mbps)
  - Flow 3 ingress (mean 14.30 Mbps)
  - Flow 3 egress (mean 14.27 Mbps)

- **Packet Loss (ms):**
  - Flow 1 (95th percentile 91.17 ms)
  - Flow 2 (95th percentile 92.90 ms)
  - Flow 3 (95th percentile 89.94 ms)
Run 9: Statistics of Indigo-1-32

Start at: 2018-02-04 20:50:54
End at: 2018-02-04 20:51:24
Local clock offset: -2.494 ms
Remote clock offset: 5.141 ms

# Below is generated by plot.py at 2018-02-05 01:30:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.25 Mbit/s
95th percentile per-packet one-way delay: 96.939 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 69.41 Mbit/s
95th percentile per-packet one-way delay: 96.494 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 33.70 Mbit/s
95th percentile per-packet one-way delay: 97.555 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 7.87 Mbit/s
95th percentile per-packet one-way delay: 99.280 ms
Loss rate: 1.23%
Run 9: Report of Indigo-1-32 — Data Link

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

Flow 1 ingress (mean 69.45 Mbit/s)  Flow 1 egress (mean 69.41 Mbit/s)
Flow 2 ingress (mean 33.66 Mbit/s)  Flow 2 egress (mean 33.70 Mbit/s)
Flow 3 ingress (mean 7.84 Mbit/s)  Flow 3 egress (mean 7.87 Mbit/s)
Run 10: Statistics of Indigo-1-32

Start at: 2018-02-04 21:14:26
End at: 2018-02-04 21:14:56
Local clock offset: -2.406 ms
Remote clock offset: 5.049 ms

# Below is generated by plot.py at 2018-02-05 01:30:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 91.162 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 82.09 Mbit/s
95th percentile per-packet one-way delay: 90.395 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 92.737 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 94.848 ms
Loss rate: 1.40%
Run 10: Report of Indigo-1-32 — Data Link

![Chart of network throughput and packet delay over time](image-url)

**Throughput (Mbps):**
- Flow 1 ingress (mean 82.08 Mbps)
- Flow 1 egress (mean 82.09 Mbps)
- Flow 2 ingress (mean 9.53 Mbps)
- Flow 2 egress (mean 9.54 Mbps)
- Flow 3 ingress (mean 15.81 Mbps)
- Flow 3 egress (mean 15.81 Mbps)

**Packet delay (ms):**
- Flow 1 (95th percentile 90.39 ms)
- Flow 2 (95th percentile 92.74 ms)
- Flow 3 (95th percentile 94.85 ms)
Run 1: Statistics of Vivace-latency

Start at: 2018-02-04 17:27:06
End at: 2018-02-04 17:27:36
Local clock offset: -0.075 ms
Remote clock offset: -2.626 ms

# Below is generated by plot.py at 2018-02-05 01:31:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 54.357 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 56.518 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 55.052 ms
Loss rate: 1.99%
Run 1: Report of Vivace-latency — Data Link

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

- **Throughput (Mbps)**: Different colors represent different flows, with annotations indicating mean throughput rates (e.g., Flow 1 ingress [56.41 Mbps] and egress [56.31 Mbps]).
- **Per-packet one-way delay (ms)**: Similarly colored lines represent delays for each flow, with specific delays noted (e.g., Flow 1 [95th percentile 53.69 ms]).
Run 2: Statistics of Vivace-latency

Start at: 2018-02-04 17:49:54
End at: 2018-02-04 17:50:24
Local clock offset: -0.44 ms
Remote clock offset: -0.944 ms

# Below is generated by plot.py at 2018-02-05 01:31:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.91 Mbit/s
95th percentile per-packet one-way delay: 59.431 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 58.315 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 47.19 Mbit/s
95th percentile per-packet one-way delay: 60.514 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 59.095 ms
Loss rate: 1.35%
Run 2: Report of Vivace-latency — Data Link
Run 3: Statistics of Vivace-latency

Start at: 2018-02-04 18:12:40
End at: 2018-02-04 18:13:10
Local clock offset: −0.984 ms
Remote clock offset: 0.684 ms

# Below is generated by plot.py at 2018-02-05 01:31:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 71.50 Mbit/s
  95th percentile per-packet one-way delay: 62.610 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 51.62 Mbit/s
  95th percentile per-packet one-way delay: 62.275 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 21.50 Mbit/s
  95th percentile per-packet one-way delay: 63.068 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 17.12 Mbit/s
  95th percentile per-packet one-way delay: 66.271 ms
  Loss rate: 1.07%
Run 3: Report of Vivace-latency — Data Link

![Throughput Graph](image1)

![Packet Loss Graph](image2)

- Flow 1 ingress (mean 51.57 Mbit/s)
- Flow 1 egress (mean 51.62 Mbit/s)
- Flow 2 ingress (mean 21.30 Mbit/s)
- Flow 2 egress (mean 21.50 Mbit/s)
- Flow 3 ingress (mean 17.12 Mbit/s)
- Flow 3 egress (mean 17.12 Mbit/s)

![Flow 1 95th percentile](image3)
- Flow 1 (95th percentile 62.27 ms)
- Flow 2 (95th percentile 63.07 ms)
- Flow 3 (95th percentile 66.27 ms)
Run 4: Statistics of Vivace-latency

Start at: 2018-02-04 18:36:14
End at: 2018-02-04 18:36:44
Local clock offset: -2.138 ms
Remote clock offset: 2.289 ms

# Below is generated by plot.py at 2018-02-05 01:31:52
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 71.26 Mbit/s
  95th percentile per-packet one-way delay: 98.006 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 45.26 Mbit/s
  95th percentile per-packet one-way delay: 94.407 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 34.31 Mbit/s
  95th percentile per-packet one-way delay: 98.858 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 9.89 Mbit/s
  95th percentile per-packet one-way delay: 100.634 ms
  Loss rate: 2.65%
Run 4: Report of Vivace-latency — Data Link
Run 5: Statistics of Vivace-latency

Start at: 2018-02-04 18:59:32
End at: 2018-02-04 19:00:02
Local clock offset: -2.427 ms
Remote clock offset: 3.551 ms

# Below is generated by plot.py at 2018-02-05 01:31:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 74.517 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 74.614 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 74.642 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 5.26 Mbit/s
95th percentile per-packet one-way delay: 69.871 ms
Loss rate: 2.26%
Run 5: Report of Vivace-latency — Data Link
Run 6: Statistics of Vivace-latency

End at: 2018-02-04 19:23:14
Local clock offset: -2.477 ms
Remote clock offset: 4.493 ms

# Below is generated by plot.py at 2018-02-05 01:32:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.12 Mbit/s
95th percentile per-packet one-way delay: 77.503 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 72.70 Mbit/s
95th percentile per-packet one-way delay: 77.588 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 75.814 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 76.399 ms
Loss rate: 1.75%
Run 6: Report of Vivace-latency — Data Link

![Graph of throughput and delay for Flows 1 to 3](image)
Run 7: Statistics of Vivace-latency

Start at: 2018-02-04 19:46:00
End at: 2018-02-04 19:46:30
Local clock offset: -2.407 ms
Remote clock offset: 4.78 ms

# Below is generated by plot.py at 2018-02-05 01:32:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.74 Mbit/s
95th percentile per-packet one-way delay: 76.693 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 76.641 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 76.860 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 77.452 ms
Loss rate: 2.44%
Run 7: Report of Vivace-latency — Data Link
Run 8: Statistics of Vivace-latency

Start at: 2018-02-04 20:09:18
End at: 2018-02-04 20:09:48
Local clock offset: -2.902 ms
Remote clock offset: 4.897 ms

# Below is generated by plot.py at 2018-02-05 01:32:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 81.276 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 60.11 Mbit/s
95th percentile per-packet one-way delay: 81.426 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 12.00 Mbit/s
95th percentile per-packet one-way delay: 82.692 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 70.645 ms
Loss rate: 2.04%
Run 8: Report of Vivace-latency — Data Link

---

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

![Graph 2: Per-packet One-way Delay vs. Time](image2)
Run 9: Statistics of Vivace-latency

Start at: 2018-02-04 20:32:49
End at: 2018-02-04 20:33:19
Local clock offset: -3.147 ms
Remote clock offset: 5.16 ms

# Below is generated by plot.py at 2018-02-05 01:32:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.76 Mbit/s
95th percentile per-packet one-way delay: 76.143 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 76.150 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 8.46 Mbit/s
95th percentile per-packet one-way delay: 75.847 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 77.185 ms
Loss rate: 1.34%
Run 9: Report of Vivace-latency — Data Link
Run 10: Statistics of Vivace-latency

Start at: 2018-02-04 20:56:06
End at: 2018-02-04 20:56:36
Local clock offset: -2.305 ms
Remote clock offset: 5.102 ms

# Below is generated by plot.py at 2018-02-05 01:32:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 73.76 Mbit/s
  95th percentile per-packet one-way delay: 88.354 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 54.74 Mbit/s
  95th percentile per-packet one-way delay: 87.606 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 26.41 Mbit/s
  95th percentile per-packet one-way delay: 90.322 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 4.56 Mbit/s
  95th percentile per-packet one-way delay: 77.712 ms
  Loss rate: 2.59%
Run 10: Report of Vivace-latency — Data Link

- Flow 1 ingress (mean 54.76 Mbit/s)
- Flow 1 egress (mean 54.74 Mbit/s)
- Flow 2 ingress (mean 26.45 Mbit/s)
- Flow 2 egress (mean 26.41 Mbit/s)
- Flow 3 ingress (mean 4.62 Mbit/s)
- Flow 3 egress (mean 4.56 Mbit/s)

- Flow 1 (95th percentile 87.61 ms)
- Flow 2 (95th percentile 90.32 ms)
- Flow 3 (95th percentile 77.71 ms)
Run 1: Statistics of Vivace-loss

Start at: 2018-02-04 17:29:40
End at: 2018-02-04 17:30:10
Local clock offset: -0.092 ms
Remote clock offset: -2.415 ms

# Below is generated by plot.py at 2018-02-05 01:33:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 84.44 Mbit/s
  95th percentile per-packet one-way delay: 79.875 ms
  Loss rate: 1.36%
-- Flow 1:
  Average throughput: 53.50 Mbit/s
  95th percentile per-packet one-way delay: 78.686 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 33.54 Mbit/s
  95th percentile per-packet one-way delay: 80.139 ms
  Loss rate: 1.54%
-- Flow 3:
  Average throughput: 26.80 Mbit/s
  95th percentile per-packet one-way delay: 81.720 ms
  Loss rate: 7.17%
Run 1: Report of Vivace-loss — Data Link
Run 2: Statistics of Vivace-loss

Start at: 2018-02-04 17:52:27
End at: 2018-02-04 17:52:57
Local clock offset: -0.53 ms
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2018-02-05 01:33:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 79.986 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 52.97 Mbit/s
95th percentile per-packet one-way delay: 78.559 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 80.749 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 27.39 Mbit/s
95th percentile per-packet one-way delay: 81.784 ms
Loss rate: 8.65%
Run 2: Report of Vivace-loss — Data Link

[Graphs showing throughput and packet core drop rate over time for different flows with annotations for mean values.]
Run 3: Statistics of Vivace-loss

Start at: 2018-02-04 18:15:29
End at: 2018-02-04 18:15:59
Local clock offset: -1.167 ms
Remote clock offset: 0.896 ms

# Below is generated by plot.py at 2018-02-05 01:33:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.87 Mbit/s
95th percentile per-packet one-way delay: 107.238 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 46.97 Mbit/s
95th percentile per-packet one-way delay: 105.873 ms
Loss rate: 3.05%
-- Flow 2:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 107.656 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 25.21 Mbit/s
95th percentile per-packet one-way delay: 108.939 ms
Loss rate: 17.82%
Run 3: Report of Vivace-loss — Data Link
Run 4: Statistics of Vivace-loss

Start at: 2018-02-04 18:38:51
End at: 2018-02-04 18:39:21
Local clock offset: -1.289 ms
Remote clock offset: 2.455 ms

# Below is generated by plot.py at 2018-02-05 01:33:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.29 Mbit/s
  95th percentile per-packet one-way delay: 107.230 ms
  Loss rate: 2.71%
-- Flow 1:
  Average throughput: 46.67 Mbit/s
  95th percentile per-packet one-way delay: 106.124 ms
  Loss rate: 2.46%
-- Flow 2:
  Average throughput: 33.73 Mbit/s
  95th percentile per-packet one-way delay: 107.356 ms
  Loss rate: 3.21%
-- Flow 3:
  Average throughput: 25.40 Mbit/s
  95th percentile per-packet one-way delay: 109.048 ms
  Loss rate: 2.78%
Run 4: Report of Vivace-loss — Data Link
Run 5: Statistics of Vivace-loss

Start at: 2018-02-04 19:02:08
End at: 2018-02-04 19:02:38
Local clock offset: -2.067 ms
Remote clock offset: 3.667 ms

# Below is generated by plot.py at 2018-02-05 01:33:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 77.42 Mbit/s
  95th percentile per-packet one-way delay: 107.047 ms
  Loss rate: 2.20%
-- Flow 1:
  Average throughput: 47.56 Mbit/s
  95th percentile per-packet one-way delay: 105.913 ms
  Loss rate: 1.69%
-- Flow 2:
  Average throughput: 32.56 Mbit/s
  95th percentile per-packet one-way delay: 107.246 ms
  Loss rate: 3.11%
-- Flow 3:
  Average throughput: 25.45 Mbit/s
  95th percentile per-packet one-way delay: 108.637 ms
  Loss rate: 2.69%
Run 5: Report of Vivace-loss — Data Link
Run 6: Statistics of Vivace-loss

Start at: 2018-02-04 19:25:22
End at: 2018-02-04 19:25:52
Local clock offset: -2.286 ms
Remote clock offset: 4.61 ms

# Below is generated by plot.py at 2018-02-05 01:33:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 81.68 Mbit/s
  95th percentile per-packet one-way delay: 107.358 ms
  Loss rate: 3.72%
-- Flow 1:
  Average throughput: 51.75 Mbit/s
  95th percentile per-packet one-way delay: 105.842 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 32.61 Mbit/s
  95th percentile per-packet one-way delay: 107.947 ms
  Loss rate: 5.90%
-- Flow 3:
  Average throughput: 25.65 Mbit/s
  95th percentile per-packet one-way delay: 109.138 ms
  Loss rate: 15.84%
Run 6: Report of Vivace-loss — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 51.68 Mbit/s)
Flow 1 egress (mean 51.75 Mbit/s)
Flow 2 ingress (mean 32.96 Mbit/s)
Flow 2 egress (mean 32.61 Mbit/s)
Flow 3 ingress (mean 27.58 Mbit/s)
Flow 3 egress (mean 25.65 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 105.84 ms)
Flow 2 (95th percentile 107.95 ms)
Flow 3 (95th percentile 109.14 ms)
Run 7: Statistics of Vivace-loss

Start at: 2018-02-04 19:48:37
End at: 2018-02-04 19:49:07
Local clock offset: -2.728 ms
Remote clock offset: 4.795 ms

# Below is generated by plot.py at 2018-02-05 01:33:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 106.964 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 51.57 Mbit/s
95th percentile per-packet one-way delay: 106.033 ms
Loss rate: 2.38%
-- Flow 2:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 107.404 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 26.01 Mbit/s
95th percentile per-packet one-way delay: 108.128 ms
Loss rate: 15.03%
Run 7: Report of Vivace-loss — Data Link

![Graph showing throughput and one-way delay over time for different flows with their respective mean values.]
Run 8: Statistics of Vivace-loss

Start at: 2018-02-04 20:11:56
End at: 2018-02-04 20:12:26
Local clock offset: -5.512 ms
Remote clock offset: 5.002 ms

# Below is generated by plot.py at 2018-02-05 01:34:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 104.762 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 103.994 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 104.983 ms
Loss rate: 4.18%
-- Flow 3:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 105.926 ms
Loss rate: 13.24%
Run 8: Report of Vivace-loss — Data Link

Throughput (Mbps)

0  5  10  15  20  25  30
Time (s)

Flow 1 ingress (mean 50.63 Mbit/s)  Flow 1 egress (mean 50.67 Mbit/s)
Flow 2 ingress (mean 32.53 Mbit/s)  Flow 2 egress (mean 32.41 Mbit/s)
Flow 3 ingress (mean 27.73 Mbit/s)  Flow 3 egress (mean 26.05 Mbit/s)

Per-packet one way delay (ms)

0  5  10  15  20  25  30
Time (s)

Flow 1 (95th percentile 103.99 ms)  Flow 2 (95th percentile 104.98 ms)  Flow 3 (95th percentile 105.93 ms)
Run 9: Statistics of Vivace-loss

Start at: 2018-02-04 20:35:27
End at: 2018-02-04 20:35:57
Local clock offset: -2.549 ms
Remote clock offset: 5.21 ms

# Below is generated by plot.py at 2018-02-05 01:34:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.16 Mbit/s
95th percentile per-packet one-way delay: 107.630 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 51.56 Mbit/s
95th percentile per-packet one-way delay: 106.403 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 108.053 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 25.37 Mbit/s
95th percentile per-packet one-way delay: 109.235 ms
Loss rate: 10.98%
Run 9: Report of Vivace-loss — Data Link
Run 10: Statistics of Vivace-loss

Start at: 2018-02-04 20:58:44
End at: 2018-02-04 20:59:14
Local clock offset: -5.196 ms
Remote clock offset: 5.074 ms

# Below is generated by plot.py at 2018-02-05 01:34:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.36 Mbit/s
  95th percentile per-packet one-way delay: 104.522 ms
  Loss rate: 3.02%
-- Flow 1:
  Average throughput: 50.36 Mbit/s
  95th percentile per-packet one-way delay: 103.687 ms
  Loss rate: 1.87%
-- Flow 2:
  Average throughput: 32.74 Mbit/s
  95th percentile per-packet one-way delay: 104.446 ms
  Loss rate: 0.96%
-- Flow 3:
  Average throughput: 25.53 Mbit/s
  95th percentile per-packet one-way delay: 106.063 ms
  Loss rate: 13.88%
Run 10: Report of Vivace-loss — Data Link

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

**Legend for Graph 1:**
- Flow 1 ingress (mean 49.99 Mbit/s)
- Flow 1 egress (mean 50.36 Mbit/s)
- Flow 2 ingress (mean 32.79 Mbit/s)
- Flow 2 egress (mean 32.74 Mbit/s)
- Flow 3 ingress (mean 27.30 Mbit/s)
- Flow 3 egress (mean 25.53 Mbit/s)

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

**Legend for Graph 2:**
- Flow 1 (95th percentile 103.69 ms)
- Flow 2 (95th percentile 104.45 ms)
- Flow 3 (95th percentile 106.06 ms)
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-04 17:28:23
End at: 2018-02-04 17:28:53
Local clock offset: -2.874 ms
Remote clock offset: -2.485 ms

# Below is generated by plot.py at 2018-02-05 01:34:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.89 Mbit/s
95th percentile per-packet one-way delay: 76.036 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 74.662 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 30.89 Mbit/s
95th percentile per-packet one-way delay: 76.605 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 77.878 ms
Loss rate: 1.30%
Run 1: Report of Vivace-LTE — Data Link

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

- Flow 1 ingress (mean 55.20 Mbit/s)
- Flow 1 egress (mean 55.31 Mbit/s)
- Flow 2 ingress (mean 30.88 Mbit/s)
- Flow 2 egress (mean 30.89 Mbit/s)
- Flow 3 ingress (mean 24.86 Mbit/s)
- Flow 3 egress (mean 24.86 Mbit/s)

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

- Flow 1 (95th percentile 74.66 ms)
- Flow 2 (95th percentile 76.61 ms)
- Flow 3 (95th percentile 77.88 ms)
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-04 17:51:10
End at: 2018-02-04 17:51:40
Local clock offset: -0.79 ms
Remote clock offset: -0.807 ms

# Below is generated by plot.py at 2018-02-05 01:34:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.16 Mbit/s
95th percentile per-packet one-way delay: 77.678 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 54.18 Mbit/s
95th percentile per-packet one-way delay: 76.391 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 78.221 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 80.562 ms
Loss rate: 1.46%
Run 2: Report of Vivace-LTE — Data Link

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

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

Start at: 2018-02-04 18:14:06
End at: 2018-02-04 18:14:36
Local clock offset: -1.547 ms
Remote clock offset: 0.82 ms

# Below is generated by plot.py at 2018-02-05 01:34:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 80.43 Mbit/s
  95th percentile per-packet one-way delay: 104.956 ms
  Loss rate: 1.22%
-- Flow 1:
  Average throughput: 51.44 Mbit/s
  95th percentile per-packet one-way delay: 104.328 ms
  Loss rate: 0.65%
-- Flow 2:
  Average throughput: 32.52 Mbit/s
  95th percentile per-packet one-way delay: 105.158 ms
  Loss rate: 1.15%
-- Flow 3:
  Average throughput: 22.82 Mbit/s
  95th percentile per-packet one-way delay: 106.136 ms
  Loss rate: 5.19%
Run 3: Report of Vivace-LTE — Data Link

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

Flow 1 ingress (mean 51.19 Mbit/s) — Flow 1 egress (mean 51.44 Mbit/s)
Flow 2 ingress (mean 32.64 Mbit/s) — Flow 2 egress (mean 32.52 Mbit/s)
Flow 3 ingress (mean 23.17 Mbit/s) — Flow 3 egress (mean 22.82 Mbit/s)

Per-packet one-way delay:
- Flow 1 (95th percentile 104.33 ms)
- Flow 2 (95th percentile 105.16 ms)
- Flow 3 (95th percentile 106.14 ms)
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-04 18:37:32
End at: 2018-02-04 18:38:02
Local clock offset: -4.249 ms
Remote clock offset: 2.354 ms

# Below is generated by plot.py at 2018-02-05 01:34:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.36 Mbit/s
  95th percentile per-packet one-way delay: 103.043 ms
  Loss rate: 0.70%
-- Flow 1:
  Average throughput: 53.59 Mbit/s
  95th percentile per-packet one-way delay: 102.044 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 32.18 Mbit/s
  95th percentile per-packet one-way delay: 103.752 ms
  Loss rate: 0.88%
-- Flow 3:
  Average throughput: 22.88 Mbit/s
  95th percentile per-packet one-way delay: 104.788 ms
  Loss rate: 2.61%
Run 4: Report of Vivace-LTE — Data Link
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-04 19:00:50
End at: 2018-02-04 19:01:20
Local clock offset: -2.214 ms
Remote clock offset: 3.572 ms
Run 5: Report of Vivace-LTE — Data Link

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Run 6: Statistics of Vivace-LTE

Start at: 2018-02-04 19:24:03
End at: 2018-02-04 19:24:33
Local clock offset: -5.122 ms
Remote clock offset: 4.551 ms

# Below is generated by plot.py at 2018-02-05 01:35:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.95 Mbit/s
95th percentile per-packet one-way delay: 102.463 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 53.01 Mbit/s
95th percentile per-packet one-way delay: 101.635 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 30.95 Mbit/s
95th percentile per-packet one-way delay: 102.834 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 22.85 Mbit/s
95th percentile per-packet one-way delay: 104.263 ms
Loss rate: 2.07%
Run 6: Report of Vivace-LTE — Data Link

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

**Throughput (Mbit/s):**
- Flow 1 ingress (mean 52.99 Mbit/s)
- Flow 1 egress (mean 53.01 Mbit/s)
- Flow 2 ingress (mean 30.85 Mbit/s)
- Flow 2 egress (mean 30.95 Mbit/s)
- Flow 3 ingress (mean 22.99 Mbit/s)
- Flow 3 egress (mean 22.85 Mbit/s)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 101.64 ms)
- Flow 2 (95th percentile 102.83 ms)
- Flow 3 (95th percentile 104.26 ms)
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-04 19:47:18
End at: 2018-02-04 19:47:48
Local clock offset: -2.858 ms
Remote clock offset: 4.817 ms

# Below is generated by plot.py at 2018-02-05 01:35:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.70 Mbit/s
95th percentile per-packet one-way delay: 105.995 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 104.847 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 106.049 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 23.41 Mbit/s
95th percentile per-packet one-way delay: 107.827 ms
Loss rate: 2.50%
Run 7: Report of Vivace-LTE — Data Link
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-04 20:10:36
End at: 2018-02-04 20:11:06
Local clock offset: -2.801 ms
Remote clock offset: 4.951 ms

# Below is generated by plot.py at 2018-02-05 01:35:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 81.04 Mbit/s
  95th percentile per-packet one-way delay: 105.219 ms
  Loss rate: 3.27%
-- Flow 1:
  Average throughput: 52.72 Mbit/s
  95th percentile per-packet one-way delay: 103.603 ms
  Loss rate: 2.52%
-- Flow 2:
  Average throughput: 30.57 Mbit/s
  95th percentile per-packet one-way delay: 105.620 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 24.77 Mbit/s
  95th percentile per-packet one-way delay: 106.848 ms
  Loss rate: 13.08%
Run 8: Report of Vivace-LTE — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 52.58 Mbps)
Flow 2 ingress (mean 30.52 Mbps)
Flow 3 ingress (mean 24.12 Mbps)
Flow 1 egress (mean 52.72 Mbps)
Flow 2 egress (mean 30.57 Mbps)
Flow 3 egress (mean 24.77 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 103.60 ms)
Flow 2 (95th percentile 105.62 ms)
Flow 3 (95th percentile 106.85 ms)
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-04 20:34:08
End at: 2018-02-04 20:34:38
Local clock offset: -2.935 ms
Remote clock offset: 5.157 ms

# Below is generated by plot.py at 2018-02-05 01:35:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 82.91 Mbit/s
  95th percentile per-packet one-way delay: 97.735 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 57.51 Mbit/s
  95th percentile per-packet one-way delay: 97.183 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 37.04 Mbit/s
  95th percentile per-packet one-way delay: 98.338 ms
  Loss rate: 0.78%
-- Flow 3:
  Average throughput: 9.31 Mbit/s
  95th percentile per-packet one-way delay: 103.819 ms
  Loss rate: 17.59%
Run 9: Report of Vivace-LTE — Data Link
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-04 20:57:25
End at: 2018-02-04 20:57:55
Local clock offset: -2.652 ms
Remote clock offset: 5.081 ms

# Below is generated by plot.py at 2018-02-05 01:35:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.34 Mbit/s
95th percentile per-packet one-way delay: 104.837 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 103.614 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 28.79 Mbit/s
95th percentile per-packet one-way delay: 105.119 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 106.751 ms
Loss rate: 1.84%
Run 10: Report of Vivace-LTE — Data Link

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 55.90 Mbps)
- Flow 1 egress (mean 55.98 Mbps)
- Flow 2 ingress (mean 28.78 Mbps)
- Flow 2 egress (mean 28.79 Mbps)
- Flow 3 ingress (mean 22.40 Mbps)
- Flow 3 egress (mean 22.34 Mbps)

Per-packet one-way delay (ms)

Time (s)

- Flow 1 (95th percentile 103.61 ms)
- Flow 2 (95th percentile 105.12 ms)
- Flow 3 (95th percentile 106.75 ms)