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).

Git summary:
branch: master @ f12c42a263f0d9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/indigo @ a9b2060d39ed4e2e8987e893e3eca2a6d7cd0a3b9
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4eb6b7ccf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccf993
third_party/pcc @ 1a6f958fa0d66d18b6230c91a55f3e872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8a134f863e7985f3f42
third_party/scream @ c33c70f7b712765a79ae3e4016a23f6966885
third_party/sourdough @ f1a1bfe749737437f61eae6eb30b267cde681
third_party/sprout @ 6f2e6e6e088d910669a9f023df375e6265089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutcomm.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562539f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f6f5c4580192120401784ce3
third_party/webrtc @ a488197dd041ace68a42849b2540a834825f42
test from GCE Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<td>flow 2</td>
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<td>7.62</td>
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<td>123.10</td>
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<td>152.19</td>
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<td>Copa</td>
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<td>159.43</td>
<td>108.10</td>
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<td>803.00</td>
<td>750.53</td>
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<td>234.60</td>
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<tr>
<td>Vivace-LTE</td>
<td>10</td>
<td>274.28</td>
<td>250.23</td>
<td>179.53</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-03-07 03:19:12
End at: 2018-03-07 03:19:42

# Below is generated by plot.py at 2018-03-07 09:20:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 381.90 Mbit/s
  95th percentile per-packet one-way delay: 83.925 ms
  Loss rate: 0.62%
-- Flow 1:
  Average throughput: 198.91 Mbit/s
  95th percentile per-packet one-way delay: 80.371 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 192.34 Mbit/s
  95th percentile per-packet one-way delay: 83.712 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 167.65 Mbit/s
  95th percentile per-packet one-way delay: 93.720 ms
  Loss rate: 1.47%
Run 1: Report of TCP BBR — Data Link

![Graph 1](image1)

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

Start at: 2018-03-07 03:36:18
End at: 2018-03-07 03:36:48

# Below is generated by plot.py at 2018-03-07 09:20:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 376.97 Mbit/s
95th percentile per-packet one-way delay: 92.450 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 200.16 Mbit/s
95th percentile per-packet one-way delay: 88.499 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 184.29 Mbit/s
95th percentile per-packet one-way delay: 92.552 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 165.26 Mbit/s
95th percentile per-packet one-way delay: 97.610 ms
Loss rate: 1.49%
Run 2: Report of TCP BBR — Data Link

![Graph showing network performance metrics for different flows]

**Notes:**
- Flow 1 ingress (mean 200.16 Mbit/s), Flow 1 egress (mean 200.16 Mbit/s)
- Flow 2 ingress (mean 184.44 Mbit/s), Flow 2 egress (mean 184.29 Mbit/s)
- Flow 3 ingress (mean 166.25 Mbit/s), Flow 3 egress (mean 165.26 Mbit/s)
Run 3: Statistics of TCP BBR

Start at: 2018-03-07 03:53:29
End at: 2018-03-07 03:53:59

# Below is generated by plot.py at 2018-03-07 09:20:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.22 Mbit/s
95th percentile per-packet one-way delay: 94.860 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 202.92 Mbit/s
95th percentile per-packet one-way delay: 91.255 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 182.67 Mbit/s
95th percentile per-packet one-way delay: 94.653 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 163.76 Mbit/s
95th percentile per-packet one-way delay: 98.547 ms
Loss rate: 1.39%
Run 3: Report of TCP BBR — Data Link

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

- **Flow 1 ingress** (mean 202.98 Mbit/s)
- **Flow 1 egress** (mean 202.92 Mbit/s)
- **Flow 2 ingress** (mean 182.81 Mbit/s)
- **Flow 2 egress** (mean 182.67 Mbit/s)
- **Flow 3 ingress** (mean 164.38 Mbit/s)
- **Flow 3 egress** (mean 163.76 Mbit/s)
Run 4: Statistics of TCP BBR

Start at: 2018-03-07 04:10:47
End at: 2018-03-07 04:11:17

# Below is generated by plot.py at 2018-03-07 09:20:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 388.25 Mbit/s
  95th percentile per-packet one-way delay: 80.596 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 203.04 Mbit/s
  95th percentile per-packet one-way delay: 78.841 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 193.79 Mbit/s
  95th percentile per-packet one-way delay: 80.702 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 171.20 Mbit/s
  95th percentile per-packet one-way delay: 85.195 ms
  Loss rate: 1.32%
Run 4: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 203.09 Mbps)
- Flow 1 egress (mean 203.04 Mbps)
- Flow 2 ingress (mean 193.89 Mbps)
- Flow 2 egress (mean 193.79 Mbps)
- Flow 3 ingress (mean 171.84 Mbps)
- Flow 3 egress (mean 171.20 Mbps)

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

- Flow 1 (95th percentile 78.84 ms)
- Flow 2 (95th percentile 80.70 ms)
- Flow 3 (95th percentile 85.19 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-03-07 04:28:13
End at: 2018-03-07 04:28:43

# Below is generated by plot.py at 2018-03-07 09:20:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 365.10 Mbit/s
  95th percentile per-packet one-way delay: 76.240 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 194.43 Mbit/s
  95th percentile per-packet one-way delay: 75.021 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 173.79 Mbit/s
  95th percentile per-packet one-way delay: 76.610 ms
  Loss rate: 0.38%
-- Flow 3:
  Average throughput: 170.16 Mbit/s
  95th percentile per-packet one-way delay: 78.239 ms
  Loss rate: 1.10%
Run 6: Statistics of TCP BBR

Start at: 2018-03-07 04:45:05
End at: 2018-03-07 04:45:35

# Below is generated by plot.py at 2018-03-07 09:20:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 390.39 Mbit/s
  95th percentile per-packet one-way delay: 73.748 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 199.93 Mbit/s
  95th percentile per-packet one-way delay: 72.253 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 197.40 Mbit/s
  95th percentile per-packet one-way delay: 73.481 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 179.92 Mbit/s
  95th percentile per-packet one-way delay: 77.104 ms
  Loss rate: 1.34%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-03-07 05:02:03
End at: 2018-03-07 05:02:33

# Below is generated by plot.py at 2018-03-07 09:20:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.18 Mbit/s
95th percentile per-packet one-way delay: 68.372 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 200.71 Mbit/s
95th percentile per-packet one-way delay: 67.559 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 203.87 Mbit/s
95th percentile per-packet one-way delay: 67.900 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 188.87 Mbit/s
95th percentile per-packet one-way delay: 70.594 ms
Loss rate: 1.27%
Run 7: Report of TCP BBR — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 200.79 Mbps)
- Flow 1 egress (mean 200.71 Mbps)
- Flow 2 ingress (mean 204.63 Mbps)
- Flow 2 egress (mean 203.87 Mbps)
- Flow 3 ingress (mean 189.33 Mbps)
- Flow 3 egress (mean 186.87 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 67.56 ms)
- Flow 2 (95th percentile 67.90 ms)
- Flow 3 (95th percentile 70.59 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-03-07 05:19:03
End at: 2018-03-07 05:19:33

# Below is generated by plot.py at 2018-03-07 09:20:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 380.23 Mbit/s
  95th percentile per-packet one-way delay: 91.292 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 200.52 Mbit/s
  95th percentile per-packet one-way delay: 88.523 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 191.04 Mbit/s
  95th percentile per-packet one-way delay: 91.361 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 160.25 Mbit/s
  95th percentile per-packet one-way delay: 96.685 ms
  Loss rate: 1.16%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-03-07 05:36:24
End at: 2018-03-07 05:36:54

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 392.32 Mbit/s
 95th percentile per-packet one-way delay: 72.188 ms
 Loss rate: 0.62%
-- Flow 1:
 Average throughput: 203.69 Mbit/s
 95th percentile per-packet one-way delay: 71.042 ms
 Loss rate: 0.40%
-- Flow 2:
 Average throughput: 197.31 Mbit/s
 95th percentile per-packet one-way delay: 71.323 ms
 Loss rate: 0.60%
-- Flow 3:
 Average throughput: 174.78 Mbit/s
 95th percentile per-packet one-way delay: 73.966 ms
 Loss rate: 1.45%
Run 9: Report of TCP BBR — Data Link

![Graph showing data link performance metrics for three flows over time.](image)

- **Flow 1**: Ingress mean 203.80 Mbps, Egress mean 203.69 Mbps
- **Flow 2**: Ingress mean 197.58 Mbps, Egress mean 197.31 Mbps
- **Flow 3**: Ingress mean 174.49 Mbps, Egress mean 174.78 Mbps

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

- **Flow 1**: 95th percentile 71.04 ms
- **Flow 2**: 95th percentile 71.32 ms
- **Flow 3**: 95th percentile 73.97 ms
Run 10: Statistics of TCP BBR

Start at: 2018-03-07 05:53:34
End at: 2018-03-07 05:54:04

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 378.28 Mbit/s
  95th percentile per-packet one-way delay: 93.753 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 198.51 Mbit/s
  95th percentile per-packet one-way delay: 87.855 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 187.11 Mbit/s
  95th percentile per-packet one-way delay: 94.271 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 168.45 Mbit/s
  95th percentile per-packet one-way delay: 98.356 ms
  Loss rate: 1.38%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-03-07 03:18:19
End at: 2018-03-07 03:18:49

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.04 Mbit/s
95th percentile per-packet one-way delay: 58.702 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 146.26 Mbit/s
95th percentile per-packet one-way delay: 58.413 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 114.34 Mbit/s
95th percentile per-packet one-way delay: 58.620 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 114.72 Mbit/s
95th percentile per-packet one-way delay: 60.015 ms
Loss rate: 1.09%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-03-07 03:35:24
End at: 2018-03-07 03:35:54

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.59 Mbit/s
95th percentile per-packet one-way delay: 70.715 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 128.01 Mbit/s
95th percentile per-packet one-way delay: 68.693 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 143.50 Mbit/s
95th percentile per-packet one-way delay: 70.951 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 177.03 Mbit/s
95th percentile per-packet one-way delay: 73.985 ms
Loss rate: 0.77%
Run 2: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 127.01 Mbps)
  - Flow 1 egress (mean 128.01 Mbps)
  - Flow 2 ingress (mean 143.65 Mbps)
  - Flow 2 egress (mean 143.56 Mbps)
  - Flow 3 ingress (mean 176.53 Mbps)
  - Flow 3 egress (mean 177.03 Mbps)

- **Packet Delay (ms):**
  - Flow 1 (95th percentile 68.69 ms)
  - Flow 2 (95th percentile 70.95 ms)
  - Flow 3 (95th percentile 73.98 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-03-07 03:52:38
End at: 2018-03-07 03:53:08

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 234.77 Mbit/s
  95th percentile per-packet one-way delay: 58.853 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 152.25 Mbit/s
  95th percentile per-packet one-way delay: 56.313 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 50.90 Mbit/s
  95th percentile per-packet one-way delay: 59.239 ms
  Loss rate: 2.19%
-- Flow 3:
  Average throughput: 147.96 Mbit/s
  95th percentile per-packet one-way delay: 60.675 ms
  Loss rate: 1.06%
Run 3: Report of TCP Cubic — Data Link

![Graph showing throughput and packet loss over time for different flows in Run 3.]

- **Flow 1**: Ingress (mean 152.17 Mbit/s), Egress (mean 152.25 Mbit/s)
- **Flow 2**: Ingress (mean 51.77 Mbit/s), Egress (mean 50.90 Mbit/s)
- **Flow 3**: Ingress (mean 147.93 Mbit/s), Egress (mean 147.96 Mbit/s)

![Graph showing packet loss over time for different flows in Run 3.]

- **Flow 1**: 95th percentile 56.31 ms
- **Flow 2**: 95th percentile 59.24 ms
- **Flow 3**: 95th percentile 60.67 ms
Run 4: Statistics of TCP Cubic

Start at: 2018-03-07 04:09:53
End at: 2018-03-07 04:10:23

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 285.30 Mbit/s
  95th percentile per-packet one-way delay: 63.783 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 126.04 Mbit/s
  95th percentile per-packet one-way delay: 60.868 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 159.30 Mbit/s
  95th percentile per-packet one-way delay: 63.128 ms
  Loss rate: 0.39%
-- Flow 3:
  Average throughput: 163.10 Mbit/s
  95th percentile per-packet one-way delay: 67.084 ms
  Loss rate: 0.93%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-03-07 04:27:21
End at: 2018-03-07 04:27:51

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.88 Mbit/s
95th percentile per-packet one-way delay: 56.411 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 122.95 Mbit/s
95th percentile per-packet one-way delay: 56.590 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 121.79 Mbit/s
95th percentile per-packet one-way delay: 56.348 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 103.29 Mbit/s
95th percentile per-packet one-way delay: 56.047 ms
Loss rate: 1.17%
Run 5: Report of TCP Cubic — Data Link

![Graph showing throughput and packet delay for different flows over time.](image-url)
Run 6: Statistics of TCP Cubic

Start at: 2018-03-07 04:44:14
End at: 2018-03-07 04:44:44

# Below is generated by plot.py at 2018-03-07 09:26:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.10 Mbit/s
95th percentile per-packet one-way delay: 57.186 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 166.42 Mbit/s
95th percentile per-packet one-way delay: 56.970 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 106.98 Mbit/s
95th percentile per-packet one-way delay: 57.656 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 61.929 ms
Loss rate: 4.13%
Run 6: Report of TCP Cubic — Data Link

---

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 166.62 Mbps)
  - Flow 1 egress (mean 166.42 Mbps)
  - Flow 2 ingress (mean 107.23 Mbps)
  - Flow 2 egress (mean 106.98 Mbps)
  - Flow 3 ingress (mean 5.96 Mbps)
  - Flow 3 egress (mean 4.90 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 56.97 ms)
  - Flow 2 (95th percentile 57.66 ms)
  - Flow 3 (95th percentile 61.93 ms)

---

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Run 7: Statistics of TCP Cubic

Start at: 2018-03-07 05:01:09
End at: 2018-03-07 05:01:39

# Below is generated by plot.py at 2018-03-07 09:28:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 281.59 Mbit/s
  95th percentile per-packet one-way delay: 57.133 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 156.42 Mbit/s
  95th percentile per-packet one-way delay: 56.639 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 121.22 Mbit/s
  95th percentile per-packet one-way delay: 56.816 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 135.26 Mbit/s
  95th percentile per-packet one-way delay: 58.212 ms
  Loss rate: 1.24%
Run 7: Report of TCP Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time.](image-url)
Run 8: Statistics of TCP Cubic

Start at: 2018-03-07 05:18:11
End at: 2018-03-07 05:18:41

# Below is generated by plot.py at 2018-03-07 09:28:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 241.08 Mbit/s
  95th percentile per-packet one-way delay: 57.425 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 141.52 Mbit/s
  95th percentile per-packet one-way delay: 56.915 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 147.37 Mbit/s
  95th percentile per-packet one-way delay: 58.021 ms
  Loss rate: 0.71%
-- Flow 3:
  Average throughput: 5.00 Mbit/s
  95th percentile per-packet one-way delay: 55.070 ms
  Loss rate: 3.77%
Run 9: Statistics of TCP Cubic

Start at: 2018-03-07 05:35:32
End at: 2018-03-07 05:36:02

# Below is generated by plot.py at 2018-03-07 09:28:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.97 Mbit/s
95th percentile per-packet one-way delay: 59.938 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 132.68 Mbit/s
95th percentile per-packet one-way delay: 59.523 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 125.71 Mbit/s
95th percentile per-packet one-way delay: 60.301 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 105.73 Mbit/s
95th percentile per-packet one-way delay: 60.551 ms
Loss rate: 1.24%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-03-07 05:52:40
End at: 2018-03-07 05:53:10

# Below is generated by plot.py at 2018-03-07 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.66 Mbit/s
95th percentile per-packet one-way delay: 60.559 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 159.15 Mbit/s
95th percentile per-packet one-way delay: 60.714 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 127.29 Mbit/s
95th percentile per-packet one-way delay: 59.562 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 121.19 Mbit/s
95th percentile per-packet one-way delay: 61.960 ms
Loss rate: 1.24%
Run 10: Report of TCP Cubic — Data Link

![Graphs showing throughput and end-to-end delay over time for different flows.](chart.png)
Run 1: Statistics of LEDBAT

Start at: 2018-03-07 03:15:22  
End at: 2018-03-07 03:15:52

# Below is generated by plot.py at 2018-03-07 09:29:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.48 Mbit/s
  95th percentile per-packet one-way delay: 54.557 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 30.94 Mbit/s
  95th percentile per-packet one-way delay: 54.488 ms
  Loss rate: 0.71%
-- Flow 2:
  Average throughput: 21.40 Mbit/s
  95th percentile per-packet one-way delay: 54.959 ms
  Loss rate: 1.05%
-- Flow 3:
  Average throughput: 10.22 Mbit/s
  95th percentile per-packet one-way delay: 54.135 ms
  Loss rate: 2.16%
Run 1: Report of LEDBAT — Data Link

![Throughput and Delay Graphs](image-url)
Run 2: Statistics of LEDBAT

Start at: 2018-03-07 03:32:34
End at: 2018-03-07 03:33:04

# Below is generated by plot.py at 2018-03-07 09:29:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 55.069 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 54.903 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 55.328 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 10.70 Mbit/s
95th percentile per-packet one-way delay: 55.219 ms
Loss rate: 2.13%
Run 2: Report of LEDBAT — Data Link

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

- **Flow 1 Ingress** (mean 30.86 Mbit/s)
- **Flow 1 Egress** (mean 30.75 Mbit/s)
- **Flow 2 Ingress** (mean 20.73 Mbit/s)
- **Flow 2 Egress** (mean 20.61 Mbit/s)
- **Flow 3 Ingress** (mean 10.82 Mbit/s)
- **Flow 3 Egress** (mean 10.70 Mbit/s)

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

- **Flow 1 (99th percentile 54.90 ms)**
- **Flow 2 (99th percentile 55.33 ms)**
- **Flow 3 (99th percentile 55.22 ms)**
Run 3: Statistics of LEDBAT

Start at: 2018-03-07 03:49:44
End at: 2018-03-07 03:50:14

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 54.913 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 32.35 Mbit/s
95th percentile per-packet one-way delay: 54.921 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 54.940 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 54.629 ms
Loss rate: 2.07%
Run 3: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 32.47 Mbit/s)**
- **Flow 1 egress (mean 32.35 Mbit/s)**
- **Flow 2 ingress (mean 22.02 Mbit/s)**
- **Flow 2 egress (mean 21.91 Mbit/s)**
- **Flow 3 ingress (mean 10.58 Mbit/s)**
- **Flow 3 egress (mean 10.47 Mbit/s)**

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

- **Flow 1 (95th percentile 54.92 ms)**
- **Flow 2 (95th percentile 54.94 ms)**
- **Flow 3 (95th percentile 54.63 ms)**
Run 4: Statistics of LEDBAT

Start at: 2018-03-07 04:06:58
End at: 2018-03-07 04:07:28

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 47.06 Mbit/s
  95th percentile per-packet one-way delay: 54.719 ms
  Loss rate: 0.79%
-- Flow 1:
  Average throughput: 31.47 Mbit/s
  95th percentile per-packet one-way delay: 54.750 ms
  Loss rate: 0.71%
-- Flow 2:
  Average throughput: 18.46 Mbit/s
  95th percentile per-packet one-way delay: 54.714 ms
  Loss rate: 0.64%
-- Flow 3:
  Average throughput: 10.16 Mbit/s
  95th percentile per-packet one-way delay: 54.216 ms
  Loss rate: 2.19%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-03-07 04:24:31
End at: 2018-03-07 04:25:01

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.72 Mbit/s
  95th percentile per-packet one-way delay: 54.658 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 31.23 Mbit/s
  95th percentile per-packet one-way delay: 54.626 ms
  Loss rate: 0.71%
-- Flow 2:
  Average throughput: 21.30 Mbit/s
  95th percentile per-packet one-way delay: 54.783 ms
  Loss rate: 1.06%
-- Flow 3:
  Average throughput: 10.39 Mbit/s
  95th percentile per-packet one-way delay: 54.486 ms
  Loss rate: 2.13%
Run 5: Report of LEDBAT — Data Link

![Graph showing throughput and packet latency over time for different flows.](image-url)
Run 6: Statistics of LEDBAT

Start at: 2018-03-07 04:41:20
End at: 2018-03-07 04:41:50

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.40 Mbit/s
  95th percentile per-packet one-way delay: 54.764 ms
  Loss rate: 0.91%
  -- Flow 1:
    Average throughput: 31.07 Mbit/s
    95th percentile per-packet one-way delay: 54.625 ms
    Loss rate: 0.71%
  -- Flow 2:
    Average throughput: 21.22 Mbit/s
    95th percentile per-packet one-way delay: 55.210 ms
    Loss rate: 1.05%
  -- Flow 3:
    Average throughput: 9.92 Mbit/s
    95th percentile per-packet one-way delay: 54.287 ms
    Loss rate: 2.18%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-03-07 04:58:19
End at: 2018-03-07 04:58:49

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 43.04 Mbit/s
  95th percentile per-packet one-way delay: 55.087 ms
  Loss rate: 0.98%
  -- Flow 1:
  Average throughput: 25.64 Mbit/s
  95th percentile per-packet one-way delay: 54.909 ms
  Loss rate: 0.78%
  -- Flow 2:
  Average throughput: 21.02 Mbit/s
  95th percentile per-packet one-way delay: 55.513 ms
  Loss rate: 1.05%
  -- Flow 3:
  Average throughput: 10.65 Mbit/s
  95th percentile per-packet one-way delay: 55.027 ms
  Loss rate: 2.13%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-03-07 05:15:22
End at: 2018-03-07 05:15:52

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.42 Mbit/s
  95th percentile per-packet one-way delay: 54.474 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 31.05 Mbit/s
  95th percentile per-packet one-way delay: 54.620 ms
  Loss rate: 0.71%
-- Flow 2:
  Average throughput: 21.16 Mbit/s
  95th percentile per-packet one-way delay: 53.923 ms
  Loss rate: 1.07%
-- Flow 3:
  Average throughput: 10.16 Mbit/s
  95th percentile per-packet one-way delay: 54.452 ms
  Loss rate: 2.16%
Run 8: Report of LEDBAT — Data Link
Run 9: Statistics of LEDBAT

Start at: 2018-03-07 05:32:37
End at: 2018-03-07 05:33:07

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.90 Mbit/s
95th percentile per-packet one-way delay: 54.939 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 25.16 Mbit/s
95th percentile per-packet one-way delay: 55.096 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 20.16 Mbit/s
95th percentile per-packet one-way delay: 54.775 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 10.22 Mbit/s
95th percentile per-packet one-way delay: 54.160 ms
Loss rate: 2.17%
Run 9: Report of LEDBAT — Data Link

- Throughput (Mbps/s)
- Time (s)

Graph 1:
- Flow 1 ingress (mean 25.23 Mbps/s)
- Flow 1 egress (mean 25.16 Mbps/s)
- Flow 2 ingress (mean 20.28 Mbps/s)
- Flow 2 egress (mean 20.16 Mbps/s)
- Flow 3 ingress (mean 10.33 Mbps/s)
- Flow 3 egress (mean 10.22 Mbps/s)

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

Legend:
- Flow 1 (95th percentile 55.10 ms)
- Flow 2 (95th percentile 54.77 ms)
- Flow 3 (95th percentile 54.16 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-03-07 05:49:50
End at: 2018-03-07 05:50:20

# Below is generated by plot.py at 2018-03-07 09:29:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.82 Mbit/s
  95th percentile per-packet one-way delay: 55.244 ms
  Loss rate: 0.90%
-- Flow 1:
  Average throughput: 31.93 Mbit/s
  95th percentile per-packet one-way delay: 55.163 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 21.88 Mbit/s
  95th percentile per-packet one-way delay: 55.509 ms
  Loss rate: 1.05%
-- Flow 3:
  Average throughput: 10.22 Mbit/s
  95th percentile per-packet one-way delay: 54.814 ms
  Loss rate: 2.18%
Run 10: Report of LEDBAT — Data Link

![Graph showing data link throughput and packet delay over time.]
Run 1: Statistics of PCC

Start at: 2018-03-07 03:16:05
End at: 2018-03-07 03:16:35

# Below is generated by plot.py at 2018-03-07 09:35:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 519.73 Mbit/s
95th percentile per-packet one-way delay: 132.282 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 475.54 Mbit/s
95th percentile per-packet one-way delay: 132.339 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 64.54 Mbit/s
95th percentile per-packet one-way delay: 131.193 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 125.335 ms
Loss rate: 1.05%
Run 1: Report of PCC — Data Link
Run 2: Statistics of PCC

Start at: 2018-03-07 03:33:17
End at: 2018-03-07 03:33:47

# Below is generated by plot.py at 2018-03-07 09:35:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 466.02 Mbit/s
  95th percentile per-packet one-way delay: 194.633 ms
  Loss rate: 0.89%
-- Flow 1:
  Average throughput: 443.27 Mbit/s
  95th percentile per-packet one-way delay: 194.616 ms
  Loss rate: 0.89%
-- Flow 2:
  Average throughput: 33.30 Mbit/s
  95th percentile per-packet one-way delay: 194.852 ms
  Loss rate: 0.92%
-- Flow 3:
  Average throughput: 2.08 Mbit/s
  95th percentile per-packet one-way delay: 195.284 ms
  Loss rate: 1.60%
Run 2: Report of PCC — Data Link
Run 3: Statistics of PCC

Start at: 2018-03-07 03:50:27
End at: 2018-03-07 03:50:57

# Below is generated by plot.py at 2018-03-07 09:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 507.06 Mbit/s
95th percentile per-packet one-way delay: 171.617 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 445.03 Mbit/s
95th percentile per-packet one-way delay: 171.171 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 34.75 Mbit/s
95th percentile per-packet one-way delay: 176.179 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 119.17 Mbit/s
95th percentile per-packet one-way delay: 177.492 ms
Loss rate: 4.15%
Run 3: Report of PCC — Data Link

The graphs show the throughput and per-packet end-to-end delay for three flows over time. The throughput graphs demonstrate the data transfer speeds in Mbps (Megabits per second) for different time intervals. The per-packet end-to-end delay graphs indicate the delay in milliseconds (ms) for packets to travel from one end to another.

Key points from the graphs:
- **Throughput:**
  - **Flow 1 Ingress:** Approximately 450.62 Mbps
  - **Flow 1 Egress:** Approximately 445.03 Mbps
  - **Flow 2 Ingress:** Approximately 35.25 Mbps
  - **Flow 2 Egress:** Approximately 34.75 Mbps
  - **Flow 3 Ingress:** Approximately 123.01 Mbps
  - **Flow 3 Egress:** Approximately 119.17 Mbps

- **Per-packet end-to-end delay:**
  - **Flow 1 95th percentile:** 171.17 ms
  - **Flow 2 95th percentile:** 176.18 ms
  - **Flow 3 95th percentile:** 177.49 ms
Run 4: Statistics of PCC

Start at: 2018-03-07 04:07:41
End at: 2018-03-07 04:08:11

# Below is generated by plot.py at 2018-03-07 09:35:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 473.69 Mbit/s
  95th percentile per-packet one-way delay: 174.039 ms
  Loss rate: 0.99%
-- Flow 1:
  Average throughput: 458.10 Mbit/s
  95th percentile per-packet one-way delay: 174.026 ms
  Loss rate: 0.98%
-- Flow 2:
  Average throughput: 21.50 Mbit/s
  95th percentile per-packet one-way delay: 174.273 ms
  Loss rate: 1.13%
-- Flow 3:
  Average throughput: 4.10 Mbit/s
  95th percentile per-packet one-way delay: 174.752 ms
  Loss rate: 2.08%
Run 4: Report of PCC — Data Link

[Graph showing throughput and packet one-way delay over time]
Run 5: Statistics of PCC

Start at: 2018-03-07 04:25:14
End at: 2018-03-07 04:25:44

# Below is generated by plot.py at 2018-03-07 09:35:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.51 Mbit/s
95th percentile per-packet one-way delay: 179.672 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 261.06 Mbit/s
95th percentile per-packet one-way delay: 179.056 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 232.32 Mbit/s
95th percentile per-packet one-way delay: 180.311 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 108.908 ms
Loss rate: 1.06%
Run 5: Report of PCC — Data Link

![Graph showing throughput and round-trip time over time for different flows.]
Run 6: Statistics of PCC

Start at: 2018-03-07 04:42:03
End at: 2018-03-07 04:42:33

# Below is generated by plot.py at 2018-03-07 09:36:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 504.49 Mbit/s
95th percentile per-packet one-way delay: 116.360 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 455.50 Mbit/s
95th percentile per-packet one-way delay: 116.545 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 65.34 Mbit/s
95th percentile per-packet one-way delay: 110.570 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 17.46 Mbit/s
95th percentile per-packet one-way delay: 116.641 ms
Loss rate: 1.59%
Run 6: Report of PCC — Data Link
Run 7: Statistics of PCC

Start at: 2018-03-07 04:59:01
End at: 2018-03-07 04:59:31

# Below is generated by plot.py at 2018-03-07 09:37:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 521.04 Mbit/s
  95th percentile per-packet one-way delay: 166.414 ms
  Loss rate: 0.89%
-- Flow 1:
  Average throughput: 499.54 Mbit/s
  95th percentile per-packet one-way delay: 166.336 ms
  Loss rate: 0.90%
-- Flow 2:
  Average throughput: 30.17 Mbit/s
  95th percentile per-packet one-way delay: 167.411 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 4.51 Mbit/s
  95th percentile per-packet one-way delay: 127.839 ms
  Loss rate: 1.18%
Run 7: Report of PCC — Data Link
Run 8: Statistics of PCC

Start at: 2018-03-07 05:16:05
End at: 2018-03-07 05:16:35

# Below is generated by plot.py at 2018-03-07 09:37:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 430.66 Mbit/s
  95th percentile per-packet one-way delay: 178.317 ms
  Loss rate: 0.76%
-- Flow 1:
  Average throughput: 349.91 Mbit/s
  95th percentile per-packet one-way delay: 174.021 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 89.01 Mbit/s
  95th percentile per-packet one-way delay: 179.237 ms
  Loss rate: 0.98%
-- Flow 3:
  Average throughput: 66.46 Mbit/s
  95th percentile per-packet one-way delay: 179.794 ms
  Loss rate: 1.65%
Run 8: Report of PCC — Data Link

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

- Flow 1 ingress (mean 351.09 Mbps)
- Flow 1 egress (mean 349.91 Mbps)
- Flow 2 ingress (mean 69.41 Mbps)
- Flow 2 egress (mean 89.01 Mbps)
- Flow 3 ingress (mean 66.89 Mbps)
- Flow 3 egress (mean 66.46 Mbps)

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

- Flow 1 (95th percentile 174.02 ms)
- Flow 2 (95th percentile 179.24 ms)
- Flow 3 (95th percentile 179.79 ms)
Run 9: Statistics of PCC

Start at: 2018-03-07 05:33:19
End at: 2018-03-07 05:33:49

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 541.51 Mbit/s
95th percentile per-packet one-way delay: 151.141 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 491.01 Mbit/s
95th percentile per-packet one-way delay: 151.090 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 68.23 Mbit/s
95th percentile per-packet one-way delay: 150.895 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 16.32 Mbit/s
95th percentile per-packet one-way delay: 153.926 ms
Loss rate: 1.82%
Run 9: Report of PCC — Data Link

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

Legend:
- Flow 1 ingress (mean 493.29 Mbit/s)
- Flow 1 egress (mean 491.01 Mbit/s)
- Flow 2 ingress (mean 68.49 Mbit/s)
- Flow 2 egress (mean 68.23 Mbit/s)
- Flow 3 ingress (mean 16.46 Mbit/s)
- Flow 3 egress (mean 16.32 Mbit/s)
Run 10: Statistics of PCC

Start at: 2018-03-07 05:50:32
End at: 2018-03-07 05:51:02

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 520.62 Mbit/s
  95th percentile per-packet one-way delay: 169.318 ms
  Loss rate: 0.86%
  -- Flow 1:
  Average throughput: 473.14 Mbit/s
  95th percentile per-packet one-way delay: 169.314 ms
  Loss rate: 0.81%
  -- Flow 2:
  Average throughput: 63.15 Mbit/s
  95th percentile per-packet one-way delay: 169.422 ms
  Loss rate: 1.38%
  -- Flow 3:
  Average throughput: 17.32 Mbit/s
  95th percentile per-packet one-way delay: 80.646 ms
  Loss rate: 1.17%
Run 10: Report of PCC — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-07 03:13:55
End at: 2018-03-07 03:14:26

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 64.77 Mbit/s
  95th percentile per-packet one-way delay: 50.727 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 50.240 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 62.08 Mbit/s
  95th percentile per-packet one-way delay: 50.606 ms
  Loss rate: 0.06%
-- Flow 3:
  Average throughput: 72.08 Mbit/s
  95th percentile per-packet one-way delay: 50.770 ms
  Loss rate: 1.31%
Run 1: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 0.06 Mbit/s)**
- **Flow 1 egress (mean 0.06 Mbit/s)**
- **Flow 2 ingress (mean 61.80 Mbit/s)**
- **Flow 2 egress (mean 62.08 Mbit/s)**
- **Flow 3 ingress (mean 72.27 Mbit/s)**
- **Flow 3 egress (mean 72.08 Mbit/s)**
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-07 03:31:08
End at: 2018-03-07 03:31:38

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.02 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 73.89 Mbit/s
95th percentile per-packet one-way delay: 53.974 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 64.49 Mbit/s
95th percentile per-packet one-way delay: 53.431 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 62.23 Mbit/s
95th percentile per-packet one-way delay: 50.437 ms
Loss rate: 0.29%
Run 2: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 73.92 Mbit/s)
- Flow 1 egress (mean 73.89 Mbit/s)
- Flow 2 ingress (mean 64.21 Mbit/s)
- Flow 2 egress (mean 64.49 Mbit/s)
- Flow 3 ingress (mean 61.80 Mbit/s)
- Flow 3 egress (mean 62.23 Mbit/s)

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

- Flow 1 (95th percentile 53.97 ms)
- Flow 2 (95th percentile 53.43 ms)
- Flow 3 (95th percentile 50.44 ms)
Run 3: Statistics of QUIC Cubic

Start at: 2018-03-07 03:48:17
End at: 2018-03-07 03:48:47

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 140.11 Mbit/s
  95th percentile per-packet one-way delay: 53.862 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 73.32 Mbit/s
  95th percentile per-packet one-way delay: 53.895 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 71.08 Mbit/s
  95th percentile per-packet one-way delay: 53.465 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 59.97 Mbit/s
  95th percentile per-packet one-way delay: 50.348 ms
  Loss rate: 1.12%
Run 3: Report of QUIC Cubic — Data Link

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**Throughput** (Mbps)

- **Flow 1 ingress** (mean 73.29 Mbps)
- **Flow 1 egress** (mean 73.32 Mbps)
- **Flow 2 ingress** (mean 71.19 Mbps)
- **Flow 2 egress** (mean 71.08 Mbps)
- **Flow 3 ingress** (mean 60.01 Mbps)
- **Flow 3 egress** (mean 59.97 Mbps)

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

- **Flow 1 (95th percentile 53.30 ms)**
- **Flow 2 (95th percentile 53.47 ms)**
- **Flow 3 (95th percentile 50.35 ms)**

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Run 4: Statistics of QUIC Cubic

Start at: 2018-03-07 04:05:33
End at: 2018-03-07 04:06:03

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 113.75 Mbit/s
  95th percentile per-packet one-way delay: 53.499 ms
  Loss rate: 0.25%
-- Flow 1:
  Average throughput: 55.35 Mbit/s
  95th percentile per-packet one-way delay: 53.518 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 60.60 Mbit/s
  95th percentile per-packet one-way delay: 50.308 ms
  Loss rate: 0.16%
-- Flow 3:
  Average throughput: 55.84 Mbit/s
  95th percentile per-packet one-way delay: 53.530 ms
  Loss rate: 1.17%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

Start at: 2018-03-07 04:23:06
End at: 2018-03-07 04:23:36

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.94 Mbit/s
95th percentile per-packet one-way delay: 53.233 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 74.97 Mbit/s
95th percentile per-packet one-way delay: 50.209 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 47.18 Mbit/s
95th percentile per-packet one-way delay: 53.296 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.10 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 4.40%
Run 5: Report of QUIC Cubic — Data Link

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

- **Flow 1 ingress (mean 74.99 Mbit/s)**
- **Flow 1 egress (mean 74.97 Mbit/s)**
- **Flow 2 ingress (mean 46.73 Mbit/s)**
- **Flow 2 egress (mean 47.18 Mbit/s)**
- **Flow 3 ingress (mean 37.38 Mbit/s)**
- **Flow 3 egress (mean 36.10 Mbit/s)**
Run 6: Statistics of QUIC Cubic

Start at: 2018-03-07 04:39:54
End at: 2018-03-07 04:40:24

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.06 Mbit/s
95th percentile per-packet one-way delay: 53.636 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 69.10 Mbit/s
95th percentile per-packet one-way delay: 53.620 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 53.626 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 53.98 Mbit/s
95th percentile per-packet one-way delay: 53.677 ms
Loss rate: 1.24%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-03-07 04:56:53
End at: 2018-03-07 04:57:23

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 135.44 Mbit/s
  95th percentile per-packet one-way delay: 53.587 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 70.58 Mbit/s
  95th percentile per-packet one-way delay: 53.354 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 70.01 Mbit/s
  95th percentile per-packet one-way delay: 53.629 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 56.30 Mbit/s
  95th percentile per-packet one-way delay: 53.619 ms
  Loss rate: 1.08%
Run 7: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 70.55 Mbit/s)
- Flow 1 egress (mean 70.58 Mbit/s)
- Flow 2 ingress (mean 70.10 Mbit/s)
- Flow 2 egress (mean 70.01 Mbit/s)
- Flow 3 ingress (mean 56.31 Mbit/s)
- Flow 3 egress (mean 56.30 Mbit/s)

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

- Flow 1 (95th percentile 53.35 ms)
- Flow 2 (95th percentile 53.63 ms)
- Flow 3 (95th percentile 53.62 ms)
Run 8: Statistics of QUIC Cubic

Start at: 2018-03-07 05:13:56
End at: 2018-03-07 05:14:26

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 129.37 Mbit/s
  95th percentile per-packet one-way delay: 53.614 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 65.70 Mbit/s
  95th percentile per-packet one-way delay: 53.619 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 64.52 Mbit/s
  95th percentile per-packet one-way delay: 53.631 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 63.82 Mbit/s
  95th percentile per-packet one-way delay: 53.341 ms
  Loss rate: 0.15%
Run 8: Report of QUIC Cubic — Data Link
Run 9: Statistics of QUIC Cubic

Start at: 2018-03-07 05:31:11
End at: 2018-03-07 05:31:41

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 119.00 Mbit/s
  95th percentile per-packet one-way delay: 53.678 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 55.40 Mbit/s
  95th percentile per-packet one-way delay: 53.381 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 64.17 Mbit/s
  95th percentile per-packet one-way delay: 53.730 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 64.51 Mbit/s
  95th percentile per-packet one-way delay: 50.463 ms
  Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link

![Graphs showing throughput and packet round-trip times for different flows.]

- Flow 1 ingress (mean 55.39 Mbit/s)
- Flow 1 egress (mean 55.40 Mbit/s)
- Flow 2 ingress (mean 64.30 Mbit/s)
- Flow 2 egress (mean 64.37 Mbit/s)
- Flow 3 ingress (mean 63.68 Mbit/s)
- Flow 3 egress (mean 64.51 Mbit/s)

![Graphs showing packet round-trip times for different flows.]

- Flow 1 (95th percentile 53.38 ms)
- Flow 2 (95th percentile 53.73 ms)
- Flow 3 (95th percentile 50.46 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-03-07 05:48:24
End at: 2018-03-07 05:48:54

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.14 Mbit/s
95th percentile per-packet one-way delay: 53.947 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 71.53 Mbit/s
95th percentile per-packet one-way delay: 50.693 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 70.89 Mbit/s
95th percentile per-packet one-way delay: 50.216 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 23.72 Mbit/s
95th percentile per-packet one-way delay: 54.095 ms
Loss rate: 1.17%
Run 10: Report of QUIC Cubic — Data Link

[Line chart and scatter plot images showing data over time for different flows with their respective throughput and packet loss metrics.]
Run 1: Statistics of SCReAM

Start at: 2018-03-07 03:20:10
End at: 2018-03-07 03:20:40

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.929 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 50.891 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.633 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.981 ms
  Loss rate: 1.10%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-03-07 03:37:16
End at: 2018-03-07 03:37:46

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.893 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 50.266 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.922 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.806 ms
  Loss rate: 1.12%
Run 2: Report of SCReAM — Data Link

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

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

Start at: 2018-03-07 03:54:27
End at: 2018-03-07 03:54:57

# Below is generated by plot.py at 2018-03-07 09:43:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.42 Mbit/s
  95th percentile per-packet one-way delay: 53.857 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.869 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 50.435 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.20 Mbit/s
  95th percentile per-packet one-way delay: 53.797 ms
  Loss rate: 0.72%
Run 4: Statistics of SCReAM

Start at: 2018-03-07 04:11:45
End at: 2018-03-07 04:12:15

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.27 Mbit/s
  95th percentile per-packet one-way delay: 53.414 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 0.13 Mbit/s
  95th percentile per-packet one-way delay: 50.140 ms
  Loss rate: 0.15%
-- Flow 2:
  Average throughput: 0.09 Mbit/s
  95th percentile per-packet one-way delay: 50.054 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.477 ms
  Loss rate: 1.11%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-03-07 04:29:10
End at: 2018-03-07 04:29:40

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.906 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.100 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.779 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.971 ms
  Loss rate: 1.11%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-03-07 04:46:04
End at: 2018-03-07 04:46:34

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 50.369 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.322 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.310 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.527 ms
  Loss rate: 1.11%
Run 6: Report of SCReAM — Data Link

![Graph of Throughput and Delay](image)

**Throughput (Mbps)**

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

**Per-packet mean delay (ms)**

- Flow 1 (95th percentile 50.32 ms)
- Flow 2 (95th percentile 50.31 ms)
- Flow 3 (95th percentile 50.53 ms)
Run 7: Statistics of SCReAM

Start at: 2018-03-07 05:03:01
End at: 2018-03-07 05:03:31

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.767 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.188 ms
Loss rate: 1.11%
Run 7: Report of SCReAM — Data Link

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

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

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

- **Flow 1** (95th percentile: 53.49 ms)
- **Flow 2** (95th percentile: 53.77 ms)
- **Flow 3** (95th percentile: 58.19 ms)
Run 8: Statistics of SCReAM

Start at: 2018-03-07 05:20:01
End at: 2018-03-07 05:20:31

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.887 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.477 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.582 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.942 ms
  Loss rate: 0.76%
Run 8: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 53.48 ms)  Flow 2 (95th percentile 53.58 ms)  Flow 3 (95th percentile 53.94 ms)
Run 9: Statistics of SCReAM

Start at: 2018-03-07 05:37:23
End at: 2018-03-07 05:37:53

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.053 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.071 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.895 ms
Loss rate: 1.11%
Run 9: Report of SCReAM — Data Link

![Throughput Graph](image1)

![Packet Delay Graph](image2)
Run 10: Statistics of SCRReAM

Start at: 2018-03-07 05:54:32
End at: 2018-03-07 05:55:02

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.42 Mbit/s
  95th percentile per-packet one-way delay: 54.157 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.075 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.205 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.330 ms
  Loss rate: 1.11%
Run 10: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 54.08 ms)
- Flow 2 (95th percentile 54.20 ms)
- Flow 3 (95th percentile 50.33 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-03-07 03:14:38
End at: 2018-03-07 03:15:08

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 5.24 Mbit/s
  95th percentile per-packet one-way delay: 53.986 ms
  Loss rate: 0.90%
-- Flow 1:
  Average throughput: 2.28 Mbit/s
  95th percentile per-packet one-way delay: 50.341 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 2.35 Mbit/s
  95th percentile per-packet one-way delay: 54.054 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 0.62 Mbit/s
  95th percentile per-packet one-way delay: 53.917 ms
  Loss rate: 1.28%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-03-07 03:31:55
End at: 2018-03-07 03:32:25

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.298 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 50.526 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 1.13%
Run 2: Report of WebRTC media — Data Link

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

- Flow 1 (mean 2.30 Mbit/s)
- Flow 1 egress (mean 2.30 Mbit/s)
- Flow 2 ingress (mean 1.47 Mbit/s)
- Flow 2 egress (mean 1.47 Mbit/s)
- Flow 3 ingress (mean 0.63 Mbit/s)
- Flow 3 egress (mean 0.63 Mbit/s)
Run 3: Statistics of WebRTC media

Start at: 2018-03-07 03:49:04
End at: 2018-03-07 03:49:34

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 53.924 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 53.958 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 50.323 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 53.646 ms
Loss rate: 1.18%
Run 4: Statistics of WebRTC media

Start at: 2018-03-07 04:06:19
End at: 2018-03-07 04:06:49

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.34 Mbit/s
  95th percentile per-packet one-way delay: 53.769 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 2.28 Mbit/s
  95th percentile per-packet one-way delay: 50.150 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 1.45 Mbit/s
  95th percentile per-packet one-way delay: 53.796 ms
  Loss rate: 0.77%
-- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 53.881 ms
  Loss rate: 1.36%
Run 4: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 2.29 Mbit/s)
Flow 1 egress (mean 2.28 Mbit/s)
Flow 2 ingress (mean 1.46 Mbit/s)
Flow 2 egress (mean 1.45 Mbit/s)
Flow 3 ingress (mean 0.64 Mbit/s)
Flow 3 egress (mean 0.63 Mbit/s)

Per packet one way delay [ms]

Time (s)

Flow 1 (95th percentile 50.15 ms)
Flow 2 (95th percentile 53.80 ms)
Flow 3 (95th percentile 53.88 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-03-07 04:23:52
End at: 2018-03-07 04:24:22

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.33 Mbit/s
  95th percentile per-packet one-way delay: 53.737 ms
  Loss rate: 0.58%
  -- Flow 1:
  Average throughput: 2.27 Mbit/s
  95th percentile per-packet one-way delay: 53.768 ms
  Loss rate: 0.44%
  -- Flow 2:
  Average throughput: 1.45 Mbit/s
  95th percentile per-packet one-way delay: 53.715 ms
  Loss rate: 0.48%
  -- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 53.335 ms
  Loss rate: 1.28%
Run 5: Report of WebRTC media — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 2.27 Mbit/s)
Flow 1 egress (mean 2.27 Mbit/s)
Flow 2 ingress (mean 1.45 Mbit/s)
Flow 2 egress (mean 1.45 Mbit/s)
Flow 3 ingress (mean 0.64 Mbit/s)
Flow 3 egress (mean 0.63 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 53.77 ms)
Flow 2 (95th percentile 53.72 ms)
Flow 3 (95th percentile 53.34 ms)
Run 6: Statistics of WebRTC media

Start at: 2018-03-07 04:40:41
End at: 2018-03-07 04:41:11

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.37 Mbit/s
  95th percentile per-packet one-way delay: 53.759 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 2.29 Mbit/s
  95th percentile per-packet one-way delay: 53.738 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 50.774 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.65 Mbit/s
  95th percentile per-packet one-way delay: 53.914 ms
  Loss rate: 1.10%
Run 6: Report of WebRTC media — Data Link

Throughput (Mbps)

Time (s)

- Flow 1 ingress (mean 2.29 Mbit/s)
- Flow 1 egress (mean 2.29 Mbit/s)
- Flow 2 ingress (mean 1.47 Mbit/s)
- Flow 2 egress (mean 1.46 Mbit/s)
- Flow 3 ingress (mean 0.65 Mbit/s)
- Flow 3 egress (mean 0.65 Mbit/s)

Per packet one way delay [ms]

Time (s)

- Flow 1 (95th percentile 53.74 ms)
- Flow 2 (95th percentile 50.77 ms)
- Flow 3 (95th percentile 53.91 ms)
Run 7: Statistics of WebRTC media

Start at: 2018-03-07 04:57:39
End at: 2018-03-07 04:58:09

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.36 Mbit/s
  95th percentile per-packet one-way delay: 53.850 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 2.28 Mbit/s
  95th percentile per-packet one-way delay: 53.846 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 1.47 Mbit/s
  95th percentile per-packet one-way delay: 53.821 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 53.956 ms
  Loss rate: 1.48%
Run 7: Report of WebRTC media — Data Link

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

Legend:
- Flow 1 ingress (mean 2.28 Mbit/s)
- Flow 1 egress (mean 2.28 Mbit/s)
- Flow 2 ingress (mean 1.47 Mbit/s)
- Flow 2 egress (mean 1.47 Mbit/s)
- Flow 3 ingress (mean 0.64 Mbit/s)
- Flow 3 egress (mean 0.64 Mbit/s)
Run 8: Statistics of WebRTC media

Start at: 2018-03-07 05:14:42
End at: 2018-03-07 05:15:12

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.39 Mbit/s
  95th percentile per-packet one-way delay: 53.887 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 2.28 Mbit/s
  95th percentile per-packet one-way delay: 53.911 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 1.48 Mbit/s
  95th percentile per-packet one-way delay: 50.166 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 0.65 Mbit/s
  95th percentile per-packet one-way delay: 53.911 ms
  Loss rate: 1.02%
Run 8: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.29 Mbit/s)
- Flow 1 egress (mean 2.28 Mbit/s)
- Flow 2 ingress (mean 1.48 Mbit/s)
- Flow 2 egress (mean 1.48 Mbit/s)
- Flow 3 ingress (mean 0.86 Mbit/s)
- Flow 3 egress (mean 0.65 Mbit/s)

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

- Flow 1 (95th percentile 53.91 ms)
- Flow 2 (95th percentile 50.17 ms)
- Flow 3 (95th percentile 53.91 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-03-07 05:31:57
End at: 2018-03-07 05:32:27

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.37 Mbit/s
  95th percentile per-packet one-way delay: 53.811 ms
  Loss rate: 0.62%
-- Flow 1:
  Average throughput: 2.29 Mbit/s
  95th percentile per-packet one-way delay: 53.857 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 1.46 Mbit/s
  95th percentile per-packet one-way delay: 50.308 ms
  Loss rate: 0.77%
-- Flow 3:
  Average throughput: 0.63 Mbit/s
  95th percentile per-packet one-way delay: 53.488 ms
  Loss rate: 1.11%
Run 9: Report of WebRTC media — Data Link

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

Legend:
- Flow 1 ingress (mean 2.29 Mbit/s)
- Flow 1 egress (mean 2.29 Mbit/s)
- Flow 2 ingress (mean 1.47 Mbit/s)
- Flow 2 egress (mean 1.46 Mbit/s)
- Flow 3 ingress (mean 0.64 Mbit/s)
- Flow 3 egress (mean 0.63 Mbit/s)

Legend for packet round-trip delay:
- Flow 1 (95th percentile 53.86 ms)
- Flow 2 (95th percentile 50.31 ms)
- Flow 3 (95th percentile 53.49 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-03-07 05:49:10
End at: 2018-03-07 05:49:40

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.31 Mbit/s
  95th percentile per-packet one-way delay: 50.753 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 2.22 Mbit/s
  95th percentile per-packet one-way delay: 50.371 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 1.47 Mbit/s
  95th percentile per-packet one-way delay: 50.397 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 0.64 Mbit/s
  95th percentile per-packet one-way delay: 53.964 ms
  Loss rate: 1.64%
Run 10: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 2.22 Mbit/s)
- Flow 1 egress (mean 2.22 Mbit/s)
- Flow 2 ingress (mean 1.47 Mbit/s)
- Flow 2 egress (mean 1.47 Mbit/s)
- Flow 3 ingress (mean 0.65 Mbit/s)
- Flow 3 egress (mean 0.64 Mbit/s)

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

- Flow 1 (95th percentile 50.37 ms)
- Flow 2 (95th percentile 50.40 ms)
- Flow 3 (95th percentile 53.96 ms)
Run 1: Statistics of Sprout

Start at: 2018-03-07 03:20:50  
End at: 2018-03-07 03:21:20

# Below is generated by plot.py at 2018-03-07 09:43:49  
# Datalink statistics

-- Total of 3 flows:
  Average throughput: 15.33 Mbit/s  
  95th percentile per-packet one-way delay: 55.004 ms  
  Loss rate: 0.57%

-- Flow 1:
  Average throughput: 7.72 Mbit/s  
  95th percentile per-packet one-way delay: 54.890 ms  
  Loss rate: 0.29%

-- Flow 2:
  Average throughput: 7.79 Mbit/s  
  95th percentile per-packet one-way delay: 55.028 ms  
  Loss rate: 0.64%

-- Flow 3:
  Average throughput: 7.43 Mbit/s  
  95th percentile per-packet one-way delay: 55.175 ms  
  Loss rate: 1.30%
Run 1: Report of Sprout — Data Link

[Graph showing throughput over time for different flows]

[Graph showing packet delay over time for different flows]

Flow 1 ingress (mean 7.71 Mbit/s)
Flow 1 egress (mean 7.72 Mbit/s)
Flow 2 ingress (mean 7.81 Mbit/s)
Flow 2 egress (mean 7.79 Mbit/s)
Flow 3 ingress (mean 7.46 Mbit/s)
Flow 3 egress (mean 7.43 Mbit/s)
Run 2: Statistics of Sprout

Start at: 2018-03-07 03:37:55
End at: 2018-03-07 03:38:25

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 54.957 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 54.952 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 54.842 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 55.147 ms
Loss rate: 1.35%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-03-07 03:55:07
End at: 2018-03-07 03:55:37

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.40 Mbit/s
95th percentile per-packet one-way delay: 54.750 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 54.774 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 54.657 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 54.900 ms
Loss rate: 1.28%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-03-07 04:12:25
End at: 2018-03-07 04:12:55

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.15 Mbit/s
  95th percentile per-packet one-way delay: 54.636 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 7.75 Mbit/s
  95th percentile per-packet one-way delay: 54.643 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 7.46 Mbit/s
  95th percentile per-packet one-way delay: 54.597 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 7.48 Mbit/s
  95th percentile per-packet one-way delay: 54.688 ms
  Loss rate: 1.30%
Run 4: Report of Sprout — Data Link

![Graph of Throughput (Mbps) over Time (s)]

- **Flow 1 ingress (mean 7.75 Mbit/s)**
- **Flow 1 egress (mean 7.75 Mbit/s)**
- **Flow 2 ingress (mean 7.47 Mbit/s)**
- **Flow 2 egress (mean 7.46 Mbit/s)**
- **Flow 3 ingress (mean 7.50 Mbit/s)**
- **Flow 3 egress (mean 7.48 Mbit/s)**

![Graph of Round Trip Time (ms) over Time (s)]

- **Flow 1 (95th percentile 54.64 ms)**
- **Flow 2 (95th percentile 54.60 ms)**
- **Flow 3 (95th percentile 54.69 ms)**
Run 5: Statistics of Sprout

Start at: 2018-03-07 04:29:50
End at: 2018-03-07 04:30:20

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.30 Mbit/s
95th percentile per-packet one-way delay: 54.768 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 54.759 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 54.721 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 7.54 Mbit/s
95th percentile per-packet one-way delay: 54.903 ms
Loss rate: 1.35%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-03-07 04:46:43
End at: 2018-03-07 04:47:13

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 14.91 Mbit/s
  95th percentile per-packet one-way delay: 54.875 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 7.58 Mbit/s
  95th percentile per-packet one-way delay: 54.899 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 7.39 Mbit/s
  95th percentile per-packet one-way delay: 54.818 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 7.43 Mbit/s
  95th percentile per-packet one-way delay: 54.870 ms
  Loss rate: 1.07%
Run 6: Report of Sprout — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 ingress (mean 7.58 Mbps/s)  
Flow 2 ingress (mean 7.41 Mbps/s)  
Flow 3 ingress (mean 7.46 Mbps/s)  
Flow 1 egress (mean 7.58 Mbps/s)  
Flow 2 egress (mean 7.39 Mbps/s)  
Flow 3 egress (mean 7.43 Mbps/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 54.90 ms)  
Flow 2 (95th percentile 54.82 ms)  
Flow 3 (95th percentile 54.87 ms)
Run 7: Statistics of Sprout

Start at: 2018-03-07 05:03:40
End at: 2018-03-07 05:04:10

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 55.012 ms
Loss rate: 0.35%

-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 54.927 ms
Loss rate: 0.26%

-- Flow 2:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 55.138 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 55.018 ms
Loss rate: 1.37%
Run 7: Report of Sprout — Data Link
Run 8: Statistics of Sprout

Start at: 2018-03-07 05:20:40
End at: 2018-03-07 05:21:10

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 54.792 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 54.781 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 54.709 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 54.962 ms
Loss rate: 1.32%
Run 8: Report of Sprout — Data Link

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

Throughput (Mbps):

- Flow 1 ingress (mean 7.84 Mbps)
- Flow 1 egress (mean 7.85 Mbps)
- Flow 2 ingress (mean 7.52 Mbps)
- Flow 2 egress (mean 7.51 Mbps)
- Flow 3 ingress (mean 7.41 Mbps)
- Flow 3 egress (mean 7.40 Mbps)

Per-packet one-way delay (ms):

- Flow 1 (95th percentile 54.78 ms)
- Flow 2 (95th percentile 54.71 ms)
- Flow 3 (95th percentile 54.96 ms)
Run 9: Statistics of Sprout

Start at: 2018-03-07 05:38:02
End at: 2018-03-07 05:38:32

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.38 Mbit/s
  95th percentile per-packet one-way delay: 55.061 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 7.85 Mbit/s
  95th percentile per-packet one-way delay: 55.108 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 7.69 Mbit/s
  95th percentile per-packet one-way delay: 54.997 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 7.43 Mbit/s
  95th percentile per-packet one-way delay: 55.055 ms
  Loss rate: 1.35%
Run 9: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 7.86 Mbit/s)
Flow 1 egress (mean 7.85 Mbit/s)
Flow 2 ingress (mean 7.70 Mbit/s)
Flow 2 egress (mean 7.69 Mbit/s)
Flow 3 ingress (mean 7.46 Mbit/s)
Flow 3 egress (mean 7.43 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 55.11 ms)
Flow 2 (95th percentile 55.00 ms)
Flow 3 (95th percentile 55.05 ms)
Run 10: Statistics of Sprout

Start at: 2018-03-07 05:55:11
End at: 2018-03-07 05:55:41

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 15.34 Mbit/s
  95th percentile per-packet one-way delay: 55.224 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 7.90 Mbit/s
  95th percentile per-packet one-way delay: 55.231 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 7.55 Mbit/s
  95th percentile per-packet one-way delay: 55.197 ms
  Loss rate: 0.06%
-- Flow 3:
  Average throughput: 7.42 Mbit/s
  95th percentile per-packet one-way delay: 55.258 ms
  Loss rate: 0.48%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-07 03:26:46
End at: 2018-03-07 03:27:16

# Below is generated by plot.py at 2018-03-07 09:43:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 118.45 Mbit/s
  95th percentile per-packet one-way delay: 54.028 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 27.43 Mbit/s
  95th percentile per-packet one-way delay: 53.938 ms
  Loss rate: 0.18%
-- Flow 2:
  Average throughput: 127.80 Mbit/s
  95th percentile per-packet one-way delay: 54.048 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 18.54 Mbit/s
  95th percentile per-packet one-way delay: 53.557 ms
  Loss rate: 0.80%
Run 1: Report of TaoVA-100x — Data Link

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

Flow 1 ingress (mean 27.39 Mbit/s)  Flow 1 egress (mean 27.43 Mbit/s)
Flow 2 ingress (mean 127.73 Mbit/s)  Flow 2 egress (mean 127.80 Mbit/s)
Flow 3 ingress (mean 18.50 Mbit/s)  Flow 3 egress (mean 18.54 Mbit/s)
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-07 03:43:38
End at: 2018-03-07 03:44:08

# Below is generated by plot.py at 2018-03-07 09:48:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 283.51 Mbit/s
  95th percentile per-packet one-way delay: 55.311 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 191.03 Mbit/s
  95th percentile per-packet one-way delay: 54.786 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 38.50 Mbit/s
  95th percentile per-packet one-way delay: 56.162 ms
  Loss rate: 0.69%
-- Flow 3:
  Average throughput: 203.26 Mbit/s
  95th percentile per-packet one-way delay: 56.171 ms
  Loss rate: 1.11%
Run 2: Report of TaoVA-100x — Data Link

![Graph showing throughput and per-packet one-way delay over time for flows 1 to 3.]

- **Flow 1**: Ingress (mean 191.11 Mbit/s), Egress (mean 191.03 Mbit/s)
- **Flow 2**: Ingress (mean 38.56 Mbit/s), Egress (mean 38.50 Mbit/s)
- **Flow 3**: Ingress (mean 203.35 Mbit/s), Egress (mean 203.26 Mbit/s)
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-07 04:00:58
End at: 2018-03-07 04:01:28

# Below is generated by plot.py at 2018-03-07 09:48:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 229.08 Mbit/s
  95th percentile per-packet one-way delay: 56.583 ms
  Loss rate: 0.62%
-- Flow 1:
  Average throughput: 59.97 Mbit/s
  95th percentile per-packet one-way delay: 54.529 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 221.24 Mbit/s
  95th percentile per-packet one-way delay: 56.785 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 66.91 Mbit/s
  95th percentile per-packet one-way delay: 58.855 ms
  Loss rate: 1.91%
Run 3: Report of TaoVA-100x — Data Link

![Graph showing throughput and delay over time]

- Flow 1 ingress (mean 59.80 Mbit/s)
- Flow 1 egress (mean 59.97 Mbit/s)
- Flow 2 ingress (mean 221.52 Mbit/s)
- Flow 2 egress (mean 221.24 Mbit/s)
- Flow 3 ingress (mean 67.52 Mbit/s)
- Flow 3 egress (mean 66.90 Mbit/s)

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

- Flow 1 (95th percentile 54.53 ms)
- Flow 2 (95th percentile 56.78 ms)
- Flow 3 (95th percentile 58.85 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-07 04:18:29
End at: 2018-03-07 04:18:59

# Below is generated by plot.py at 2018-03-07 09:48:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 215.03 Mbit/s
  95th percentile per-packet one-way delay: 53.872 ms
  Loss rate: 0.62%
  -- Flow 1:
    Average throughput: 84.19 Mbit/s
    95th percentile per-packet one-way delay: 53.754 ms
    Loss rate: 0.50%
  -- Flow 2:
    Average throughput: 130.61 Mbit/s
    95th percentile per-packet one-way delay: 53.971 ms
    Loss rate: 0.14%
  -- Flow 3:
    Average throughput: 133.68 Mbit/s
    95th percentile per-packet one-way delay: 53.909 ms
    Loss rate: 1.78%
Run 4: Report of TaoVA-100x — Data Link

![Graph showing network performance metrics over time for different flows, including throughput (Mbit/s) and per-packet round-trip time (ms).]
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-07 04:35:34
End at: 2018-03-07 04:36:04

# Below is generated by plot.py at 2018-03-07 09:48:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.85 Mbit/s
95th percentile per-packet one-way delay: 53.680 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 17.46 Mbit/s
95th percentile per-packet one-way delay: 53.665 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 16.49 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 13.88 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 1.10%
Run 5: Report of TaoVA-100x — Data Link

![Graph of data link performance over time]

**Flow 1**
- Ingress: Mean 17.45 Mbit/s
- Egress: Mean 17.46 Mbit/s

**Flow 2**
- Ingress: Mean 16.46 Mbit/s

**Flow 3**
- Ingress: Mean 13.47 Mbit/s
- Egress: Mean 13.88 Mbit/s

**Per-packet end-to-end delay (ms)**

Flow 1 (95th percentile 53.66 ms), Flow 2 (95th percentile 53.49 ms), Flow 3 (95th percentile 53.70 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-03-07 04:52:24
End at: 2018-03-07 04:52:54

# Below is generated by plot.py at 2018-03-07 09:48:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 179.64 Mbit/s
95th percentile per-packet one-way delay: 53.765 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 53.608 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 17.85 Mbit/s
95th percentile per-packet one-way delay: 53.673 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 232.71 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 1.30%
Run 6: Report of TaoVA-100x — Data Link

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**Throughput (Mbps)**

**Time (s)**: 0, 5, 10, 15, 20, 25, 30

**Flow 1 ingress (mean 91.09 Mbps)**

**Flow 1 egress (mean 91.28 Mbps)**

**Flow 2 ingress (mean 17.84 Mbps)**

**Flow 2 egress (mean 17.85 Mbps)**

**Flow 3 ingress (mean 232.86 Mbps)**

**Flow 3 egress (mean 232.71 Mbps)**

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

**Time (s)**: 0, 5, 10, 15, 20, 25, 30

**Flow 1 (95th percentile 53.61 ms)**

**Flow 2 (95th percentile 53.67 ms)**

**Flow 3 (95th percentile 53.85 ms)**
Run 7: Statistics of TaoVA-100x

Start at: 2018-03-07 05:09:22
End at: 2018-03-07 05:09:52

# Below is generated by plot.py at 2018-03-07 09:48:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 193.70 Mbit/s
  95th percentile per-packet one-way delay: 53.883 ms
  Loss rate: 0.69%
-- Flow 1:
  Average throughput: 101.53 Mbit/s
  95th percentile per-packet one-way delay: 53.810 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 102.16 Mbit/s
  95th percentile per-packet one-way delay: 53.981 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 228.04 Mbit/s
  95th percentile per-packet one-way delay: 53.972 ms
  Loss rate: 1.26%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-03-07 05:26:34
End at: 2018-03-07 05:27:04

# Below is generated by plot.py at 2018-03-07 09:50:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 240.46 Mbit/s
95th percentile per-packet one-way delay: 53.890 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 194.96 Mbit/s
95th percentile per-packet one-way delay: 53.875 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 22.89 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 54.466 ms
Loss rate: 1.03%
Run 8: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 194.41 Mbit/s)
- Flow 1 egress (mean 194.96 Mbit/s)
- Flow 2 ingress (mean 22.83 Mbit/s)
- Flow 2 egress (mean 22.89 Mbit/s)
- Flow 3 ingress (mean 92.07 Mbit/s)
- Flow 3 egress (mean 92.10 Mbit/s)

- Flow 1 (95th percentile 53.88 ms)
- Flow 2 (95th percentile 53.80 ms)
- Flow 3 (95th percentile 54.47 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-03-07 05:43:53
End at: 2018-03-07 05:44:23

# Below is generated by plot.py at 2018-03-07 09:50:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 182.51 Mbit/s
  95th percentile per-packet one-way delay: 54.188 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 15.14 Mbit/s
  95th percentile per-packet one-way delay: 54.293 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 236.57 Mbit/s
  95th percentile per-packet one-way delay: 54.172 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 30.94 Mbit/s
  95th percentile per-packet one-way delay: 54.341 ms
  Loss rate: 0.48%
Run 9: Report of TaoVA-100x — Data Link

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**Graph 1:** Throughput (Mbps)

- **Flow 1 ingress (mean 15.14 Mbps)**
- **Flow 1 egress (mean 15.14 Mbps)**
- **Flow 2 ingress (mean 236.68 Mbps)**
- **Flow 2 egress (mean 236.57 Mbps)**
- **Flow 3 ingress (mean 30.77 Mbps)**
- **Flow 3 egress (mean 30.94 Mbps)**

**Graph 2:** Per-packet round trip delay (ms)

- **Flow 1 (95th percentile 54.29 ms)**
- **Flow 2 (95th percentile 54.17 ms)**
- **Flow 3 (95th percentile 54.34 ms)**

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Run 10: Statistics of TaoVA-100x

Start at: 2018-03-07 06:00:53
End at: 2018-03-07 06:01:23

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 391.61 Mbit/s
  95th percentile per-packet one-way delay: 55.486 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 237.22 Mbit/s
  95th percentile per-packet one-way delay: 55.116 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 128.81 Mbit/s
  95th percentile per-packet one-way delay: 55.228 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 210.95 Mbit/s
  95th percentile per-packet one-way delay: 57.170 ms
  Loss rate: 1.23%
Run 1: Statistics of TCP Vegas

Start at: 2018-03-07 03:22:41
End at: 2018-03-07 03:23:11

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 92.28 Mbit/s
  95th percentile per-packet one-way delay: 54.849 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 28.32 Mbit/s
  95th percentile per-packet one-way delay: 54.718 ms
  Loss rate: 0.24%
-- Flow 2:
  Average throughput: 78.19 Mbit/s
  95th percentile per-packet one-way delay: 54.802 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 36.66 Mbit/s
  95th percentile per-packet one-way delay: 55.186 ms
  Loss rate: 0.95%
Run 1: Report of TCP Vegas — Data Link

![Graph of Throughput (Mbps)](image1)

- **Flow 1 ingress (mean 28.30 Mbps)**
- **Flow 1 egress (mean 28.32 Mbps)**
- **Flow 2 ingress (mean 78.16 Mbps)**
- **Flow 2 egress (mean 78.19 Mbps)**
- **Flow 3 ingress (mean 36.64 Mbps)**
- **Flow 3 egress (mean 36.66 Mbps)**

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

- **Flow 1 (95th percentile 54.72 ms)**
- **Flow 2 (95th percentile 54.80 ms)**
- **Flow 3 (95th percentile 55.19 ms)**
Run 2: Statistics of TCP Vegas

Start at: 2018-03-07 03:39:26
End at: 2018-03-07 03:39:56

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 126.97 Mbit/s
  95th percentile per-packet one-way delay: 55.319 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 75.73 Mbit/s
  95th percentile per-packet one-way delay: 55.295 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 59.40 Mbit/s
  95th percentile per-packet one-way delay: 55.419 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 36.11 Mbit/s
  95th percentile per-packet one-way delay: 55.228 ms
  Loss rate: 0.97%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-03-07 03:56:42
End at: 2018-03-07 03:57:12

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.10 Mbit/s
95th percentile per-packet one-way delay: 54.538 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 18.99 Mbit/s
95th percentile per-packet one-way delay: 54.631 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 72.30 Mbit/s
95th percentile per-packet one-way delay: 54.541 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 54.87 Mbit/s
95th percentile per-packet one-way delay: 54.371 ms
Loss rate: 1.04%
Run 3: Report of TCP Vegas — Data Link

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

Flow 1 ingress (mean 18.99 Mbit/s)  Flow 1 egress (mean 18.99 Mbit/s)
Flow 2 ingress (mean 72.29 Mbit/s)  Flow 2 egress (mean 72.30 Mbit/s)
Flow 3 ingress (mean 54.87 Mbit/s)  Flow 3 egress (mean 54.87 Mbit/s)
Run 4: Statistics of TCP Vegas

Start at: 2018-03-07 04:14:19
End at: 2018-03-07 04:14:49

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.02 Mbit/s
95th percentile per-packet one-way delay: 55.759 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 54.798 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 98.12 Mbit/s
95th percentile per-packet one-way delay: 55.380 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 73.32 Mbit/s
95th percentile per-packet one-way delay: 59.859 ms
Loss rate: 1.16%
Run 4: Report of TCP Vegas — Data Link

![Graphs showing throughput and per-packet one-way delay](image_url)
Run 5: Statistics of TCP Vegas

Start at: 2018-03-07 04:31:26
End at: 2018-03-07 04:31:56

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 90.11 Mbit/s
  95th percentile per-packet one-way delay: 56.812 ms
  Loss rate: 0.55%
  -- Flow 1:
  Average throughput: 20.66 Mbit/s
  95th percentile per-packet one-way delay: 54.355 ms
  Loss rate: 0.32%
  -- Flow 2:
  Average throughput: 69.24 Mbit/s
  95th percentile per-packet one-way delay: 58.445 ms
  Loss rate: 0.40%
  -- Flow 3:
  Average throughput: 71.20 Mbit/s
  95th percentile per-packet one-way delay: 54.680 ms
  Loss rate: 1.03%
Run 5: Report of TCP Vegas — Data Link

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

Flow 1 ingress (mean 20.66 Mbit/s)  
Flow 1 egress (mean 20.66 Mbit/s)  
Flow 2 ingress (mean 69.10 Mbit/s)  
Flow 2 egress (mean 69.24 Mbit/s)  
Flow 3 ingress (mean 71.19 Mbit/s)  
Flow 3 egress (mean 71.20 Mbit/s)  
Flow 1 (95th percentile 54.35 ms)  
Flow 2 (95th percentile 58.45 ms)  
Flow 3 (95th percentile 54.68 ms)
Run 6: Statistics of TCP Vegas

Start at: 2018-03-07 04:48:10
End at: 2018-03-07 04:48:40

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 118.69 Mbit/s
  95th percentile per-packet one-way delay: 55.402 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 45.46 Mbit/s
  95th percentile per-packet one-way delay: 55.151 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 92.19 Mbit/s
  95th percentile per-packet one-way delay: 55.809 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 36.34 Mbit/s
  95th percentile per-packet one-way delay: 54.823 ms
  Loss rate: 0.96%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-03-07 05:05:14
End at: 2018-03-07 05:05:44

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.82 Mbit/s
95th percentile per-packet one-way delay: 54.910 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 54.17 Mbit/s
95th percentile per-packet one-way delay: 55.189 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 106.57 Mbit/s
95th percentile per-packet one-way delay: 54.749 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 5.66 Mbit/s
95th percentile per-packet one-way delay: 54.321 ms
Loss rate: 2.14%
Run 7: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 54.13 Mbit/s)
- Flow 1 egress (mean 54.17 Mbit/s)
- Flow 2 ingress (mean 106.59 Mbit/s)
- Flow 2 egress (mean 106.57 Mbit/s)
- Flow 3 ingress (mean 5.72 Mbit/s)
- Flow 3 egress (mean 5.66 Mbit/s)
Run 8: Statistics of TCP Vegas

Start at: 2018-03-07 05:22:22
End at: 2018-03-07 05:22:52

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 54.767 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 22.20 Mbit/s
95th percentile per-packet one-way delay: 54.681 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 56.79 Mbit/s
95th percentile per-packet one-way delay: 54.662 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 68.45 Mbit/s
95th percentile per-packet one-way delay: 54.914 ms
Loss rate: 1.04%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

Start at: 2018-03-07 05:39:37
End at: 2018-03-07 05:40:07

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.83 Mbit/s
95th percentile per-packet one-way delay: 55.225 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 63.70 Mbit/s
95th percentile per-packet one-way delay: 55.320 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 107.16 Mbit/s
95th percentile per-packet one-way delay: 55.202 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 54.536 ms
Loss rate: 2.02%
Run 9: Report of TCP Vegas — Data Link

![Graph showing throughput and packet delay over time for different flows.]
Run 10: Statistics of TCP Vegas

Start at: 2018-03-07 05:56:43
End at: 2018-03-07 05:57:13

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 176.24 Mbit/s
  95th percentile per-packet one-way delay: 56.530 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 95.69 Mbit/s
  95th percentile per-packet one-way delay: 55.943 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 69.65 Mbit/s
  95th percentile per-packet one-way delay: 57.810 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 103.99 Mbit/s
  95th percentile per-packet one-way delay: 56.746 ms
  Loss rate: 1.18%
Run 10: Report of TCP Vegas — Data Link

![Graph of network performance metrics over time withlegend for various flows and their throughput and latency data.](image-url)
Run 1: Statistics of Verus

Start at: 2018-03-07 03:25:45
End at: 2018-03-07 03:26:15

# Below is generated by plot.py at 2018-03-07 09:56:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 328.20 Mbit/s
  95th percentile per-packet one-way delay: 119.306 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 171.47 Mbit/s
  95th percentile per-packet one-way delay: 112.086 ms
  Loss rate: 0.52%
-- Flow 2:
  Average throughput: 163.02 Mbit/s
  95th percentile per-packet one-way delay: 116.289 ms
  Loss rate: 0.77%
-- Flow 3:
  Average throughput: 148.79 Mbit/s
  95th percentile per-packet one-way delay: 137.499 ms
  Loss rate: 1.45%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Start at: 2018-03-07 03:42:36
End at: 2018-03-07 03:43:06

# Below is generated by plot.py at 2018-03-07 09:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.36 Mbit/s
95th percentile per-packet one-way delay: 147.030 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 208.87 Mbit/s
95th percentile per-packet one-way delay: 145.485 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 151.27 Mbit/s
95th percentile per-packet one-way delay: 142.081 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 102.98 Mbit/s
95th percentile per-packet one-way delay: 166.970 ms
Loss rate: 6.55%
Run 2: Report of Verus — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 209.60 Mb/s)  Flow 1 egress (mean 208.87 Mb/s)
Flow 2 ingress (mean 151.66 Mb/s)  Flow 2 egress (mean 151.27 Mb/s)
Flow 3 ingress (mean 97.06 Mb/s)   Flow 3 egress (mean 102.08 Mb/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 145.49 ms)  Flow 2 (95th percentile 142.08 ms)  Flow 3 (95th percentile 166.97 ms)
Run 3: Statistics of Verus

Start at: 2018-03-07 03:59:58
End at: 2018-03-07 04:00:28

# Below is generated by plot.py at 2018-03-07 09:56:07
# Datalink statistics

-- Total of 3 flows:
Average throughput: 319.58 Mbit/s
95th percentile per-packet one-way delay: 165.502 ms
Loss rate: 1.51%

-- Flow 1:
Average throughput: 197.13 Mbit/s
95th percentile per-packet one-way delay: 145.925 ms
Loss rate: 1.72%

-- Flow 2:
Average throughput: 140.60 Mbit/s
95th percentile per-packet one-way delay: 174.811 ms
Loss rate: 0.78%

-- Flow 3:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 172.132 ms
Loss rate: 2.37%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-03-07 04:17:32
End at: 2018-03-07 04:18:02

# Below is generated by plot.py at 2018-03-07 09:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.83 Mbit/s
95th percentile per-packet one-way delay: 181.661 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 195.81 Mbit/s
95th percentile per-packet one-way delay: 188.975 ms
Loss rate: 1.62%
-- Flow 2:
Average throughput: 99.65 Mbit/s
95th percentile per-packet one-way delay: 154.945 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 225.780 ms
Loss rate: 3.13%
Run 4: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 198.95 Mbps)**
- **Flow 1 egress (mean 195.81 Mbps)**
- **Flow 2 ingress (mean 96.53 Mbps)**
- **Flow 2 egress (mean 99.65 Mbps)**
- **Flow 3 ingress (mean 59.85 Mbps)**
- **Flow 3 egress (mean 58.19 Mbps)**

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

- **Flow 1 (95th percentile 188.97 ms)**
- **Flow 2 (95th percentile 154.94 ms)**
- **Flow 3 (95th percentile 225.78 ms)**

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Run 5: Statistics of Verus

Start at: 2018-03-07 04:34:34
End at: 2018-03-07 04:35:04

# Below is generated by plot.py at 2018-03-07 09:56:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 302.18 Mbit/s
95th percentile per-packet one-way delay: 123.894 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 162.67 Mbit/s
95th percentile per-packet one-way delay: 108.687 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 130.88 Mbit/s
95th percentile per-packet one-way delay: 121.543 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 159.50 Mbit/s
95th percentile per-packet one-way delay: 136.972 ms
Loss rate: 1.48%
Run 5: Report of Verus — Data Link

Throughput of Mbit/s

Time (s)

Flow 1 ingress (mean 162.76 Mbit/s) — Flow 1 egress (mean 162.67 Mbit/s)
Flow 2 ingress (mean 131.84 Mbit/s) — Flow 2 egress (mean 130.88 Mbit/s)
Flow 3 ingress (mean 160.19 Mbit/s) — Flow 3 egress (mean 159.50 Mbit/s)

Per packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 108.69 ms) — Flow 2 (95th percentile 121.54 ms) — Flow 3 (95th percentile 136.97 ms)
Run 6: Statistics of Verus

Start at: 2018-03-07 04:51:24
End at: 2018-03-07 04:51:54

# Below is generated by plot.py at 2018-03-07 09:56:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 309.92 Mbit/s
  95th percentile per-packet one-way delay: 138.631 ms
  Loss rate: 0.77%
-- Flow 1:
  Average throughput: 161.65 Mbit/s
  95th percentile per-packet one-way delay: 105.615 ms
  Loss rate: 0.08%
-- Flow 2:
  Average throughput: 178.84 Mbit/s
  95th percentile per-packet one-way delay: 176.150 ms
  Loss rate: 1.55%
-- Flow 3:
  Average throughput: 90.42 Mbit/s
  95th percentile per-packet one-way delay: 150.780 ms
  Loss rate: 1.31%
Run 6: Report of Verus — Data Link

Graphs showing throughput and packet error rate over time for different flows.
Run 7: Statistics of Verus

Start at: 2018-03-07 05:08:23
End at: 2018-03-07 05:08:53

# Below is generated by plot.py at 2018-03-07 09:57:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.36 Mbit/s
95th percentile per-packet one-way delay: 164.672 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 168.03 Mbit/s
95th percentile per-packet one-way delay: 132.496 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 165.97 Mbit/s
95th percentile per-packet one-way delay: 170.439 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 64.31 Mbit/s
95th percentile per-packet one-way delay: 275.775 ms
Loss rate: 4.07%
Run 7: Report of Verus — Data Link

![Graph of Throughput and Per-Packet Delay](image-url)

**Throughput (Mbps):**
- Flow 1 ingress (mean 167.62 Mbps)
- Flow 1 egress (mean 168.03 Mbps)
- Flow 2 ingress (mean 168.40 Mbps)
- Flow 2 egress (mean 165.97 Mbps)
- Flow 3 ingress (mean 66.31 Mbps)
- Flow 3 egress (mean 64.31 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 132.50 ms)
- Flow 2 (95th percentile 170.44 ms)
- Flow 3 (95th percentile 275.77 ms)
Run 8: Statistics of Verus

Start at: 2018-03-07 05:25:35  
End at: 2018-03-07 05:26:05

# Below is generated by plot.py at 2018-03-07 09:59:34  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 308.65 Mbit/s  
95th percentile per-packet one-way delay: 134.440 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 153.24 Mbit/s  
95th percentile per-packet one-way delay: 94.963 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 189.67 Mbit/s  
95th percentile per-packet one-way delay: 148.885 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 89.19 Mbit/s  
95th percentile per-packet one-way delay: 147.878 ms  
Loss rate: 1.80%
Run 8: Report of Verus — Data Link

![Graph showing throughput and delay over time for different flows.]
Run 9: Statistics of Verus

Start at: 2018-03-07 05:42:53
End at: 2018-03-07 05:43:23

# Below is generated by plot.py at 2018-03-07 10:00:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.63 Mbit/s
95th percentile per-packet one-way delay: 177.851 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 164.31 Mbit/s
95th percentile per-packet one-way delay: 150.418 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 172.08 Mbit/s
95th percentile per-packet one-way delay: 182.369 ms
Loss rate: 3.23%
-- Flow 3:
Average throughput: 101.15 Mbit/s
95th percentile per-packet one-way delay: 192.674 ms
Loss rate: 2.56%
Run 9: Report of Verus — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 165.19 Mbit/s) — Flow 1 egress (mean 164.31 Mbit/s)
Flow 2 ingress (mean 177.15 Mbit/s) — Flow 2 egress (mean 172.08 Mbit/s)
Flow 3 ingress (mean 102.67 Mbit/s) — Flow 3 egress (mean 101.15 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 150.42 ms) — Flow 2 (95th percentile 182.37 ms) — Flow 3 (95th percentile 192.67 ms)
Run 10: Statistics of Verus

Start at: 2018-03-07 05:59:55
End at: 2018-03-07 06:00:25

# Below is generated by plot.py at 2018-03-07 10:00:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 294.14 Mbit/s
95th percentile per-packet one-way delay: 113.097 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 166.26 Mbit/s
95th percentile per-packet one-way delay: 89.023 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 129.93 Mbit/s
95th percentile per-packet one-way delay: 125.635 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 126.79 Mbit/s
95th percentile per-packet one-way delay: 114.474 ms
Loss rate: 2.71%
Run 10: Report of Verus — Data Link
Run 1: Statistics of Copa

Start at: 2018-03-07 03:21:30
End at: 2018-03-07 03:22:00

# Below is generated by plot.py at 2018-03-07 10:10:06
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 478.99 Mbit/s
  95th percentile per-packet one-way delay: 244.171 ms
  Loss rate: 17.02%
-- Flow 1:
  Average throughput: 477.94 Mbit/s
  95th percentile per-packet one-way delay: 244.183 ms
  Loss rate: 17.04%
-- Flow 2:
  Average throughput: 1.18 Mbit/s
  95th percentile per-packet one-way delay: 200.039 ms
  Loss rate: 5.58%
-- Flow 3:
  Average throughput: 0.79 Mbit/s
  95th percentile per-packet one-way delay: 196.958 ms
  Loss rate: 7.56%
Run 1: Report of Copa — Data Link

Graph 1: Throughput (Mbps)

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

Start at: 2018-03-07 03:38:36
End at: 2018-03-07 03:39:06

# Below is generated by plot.py at 2018-03-07 10:10:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 110.72 Mbit/s
95th percentile per-packet one-way delay: 54.027 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 43.28 Mbit/s
95th percentile per-packet one-way delay: 54.020 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 61.50 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 80.76 Mbit/s
95th percentile per-packet one-way delay: 54.043 ms
Loss rate: 1.04%
Run 2: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 43.14 Mbit/s)
- Flow 1 egress (mean 43.28 Mbit/s)
- Flow 2 ingress (mean 61.73 Mbit/s)
- Flow 2 egress (mean 61.50 Mbit/s)
- Flow 3 ingress (mean 90.78 Mbit/s)
- Flow 3 egress (mean 90.76 Mbit/s)
Run 3: Statistics of Copa

Start at: 2018-03-07 03:55:47
End at: 2018-03-07 03:56:17

# Below is generated by plot.py at 2018-03-07 10:10:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.25 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 122.02 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 53.989 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 84.39 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.90%
Run 3: Report of Copa — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows (1, 2, 3). The graphs indicate the mean throughput and egress rates for each flow, as well as the 95th percentile delays.]
Run 4: Statistics of Copa

Start at: 2018-03-07 04:13:05
End at: 2018-03-07 04:13:35

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 485.12 Mbit/s
95th percentile per-packet one-way delay: 202.033 ms
Loss rate: 23.01%
-- Flow 1:
Average throughput: 282.91 Mbit/s
95th percentile per-packet one-way delay: 203.053 ms
Loss rate: 22.22%
-- Flow 2:
Average throughput: 304.46 Mbit/s
95th percentile per-packet one-way delay: 200.650 ms
Loss rate: 24.10%
-- Flow 3:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 191.612 ms
Loss rate: 19.85%
Run 4: Report of Copa — Data Link

![Graph showing network performance metrics.](image1)

![Graph showing per-packet delay.](image2)
Run 5: Statistics of Copa

Start at: 2018-03-07 04:30:30
End at: 2018-03-07 04:31:00

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 224.75 Mbit/s
  95th percentile per-packet one-way delay: 263.563 ms
  Loss rate: 24.91%
  -- Flow 1:
  Average throughput: 75.39 Mbit/s
  95th percentile per-packet one-way delay: 53.618 ms
  Loss rate: 0.01%
  -- Flow 2:
  Average throughput: 217.48 Mbit/s
  95th percentile per-packet one-way delay: 266.974 ms
  Loss rate: 33.96%
  -- Flow 3:
  Average throughput: 16.48 Mbit/s
  95th percentile per-packet one-way delay: 179.836 ms
  Loss rate: 4.71%
Run 5: Report of Copa — Data Link

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

![Graph 2: Packet Latency Over Time](image2)
Run 6: Statistics of Copa

Start at: 2018-03-07 04:47:23
End at: 2018-03-07 04:47:53

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.60 Mbit/s
95th percentile per-packet one-way delay: 53.910 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 83.88 Mbit/s
95th percentile per-packet one-way delay: 53.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 121.66 Mbit/s
95th percentile per-packet one-way delay: 53.837 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 54.164 ms
Loss rate: 1.33%
Run 7: Statistics of Copa

Start at: 2018-03-07 05:04:21
End at: 2018-03-07 05:04:51

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 151.38 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 69.56 Mbit/s
95th percentile per-packet one-way delay: 53.801 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 79.96 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 53.552 ms
Loss rate: 0.83%
Run 7: Report of Copa — Data Link

![Data Link Graph](image-url)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 69.34 Mbps)
  - Flow 1 egress (mean 69.56 Mbps)
  - Flow 2 ingress (mean 79.94 Mbps)
  - Flow 2 egress (mean 79.96 Mbps)
  - Flow 3 ingress (mean 87.04 Mbps)
  - Flow 3 egress (mean 87.19 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 53.80 ms)
  - Flow 2 (95th percentile 53.78 ms)
  - Flow 3 (95th percentile 53.55 ms)
Run 8: Statistics of Copa

Start at: 2018-03-07 05:21:20
End at: 2018-03-07 05:21:50

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 314.38 Mbit/s
  95th percentile per-packet one-way delay: 247.120 ms
  Loss rate: 16.85%
-- Flow 1:
  Average throughput: 279.75 Mbit/s
  95th percentile per-packet one-way delay: 247.743 ms
  Loss rate: 18.45%
-- Flow 2:
  Average throughput: 44.88 Mbit/s
  95th percentile per-packet one-way delay: 66.124 ms
  Loss rate: 1.37%
-- Flow 3:
  Average throughput: 15.90 Mbit/s
  95th percentile per-packet one-way delay: 99.535 ms
  Loss rate: 0.12%
Run 8: Report of Copa — Data Link

---

**Throughput (Mbit/s)**

- Flow 1 ingress (mean 34.18 Mbit/s)
- Flow 2 ingress (mean 45.36 Mbit/s)
- Flow 3 ingress (mean 15.96 Mbit/s)
- Flow 1 egress (mean 279.75 Mbit/s)
- Flow 2 egress (mean 44.88 Mbit/s)
- Flow 3 egress (mean 15.90 Mbit/s)

---

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

- Flow 1 (95th percentile 247.74 ms)
- Flow 2 (95th percentile 66.12 ms)
- Flow 3 (95th percentile 99.53 ms)
Run 9: Statistics of Copa

Start at: 2018-03-07 05:38:42
End at: 2018-03-07 05:39:12

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.87 Mbit/s
95th percentile per-packet one-way delay: 53.834 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 89.49 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 66.01 Mbit/s
95th percentile per-packet one-way delay: 53.933 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 86.78 Mbit/s
95th percentile per-packet one-way delay: 53.713 ms
Loss rate: 0.87%
Run 9: Report of Copa — Data Link
Run 10: Statistics of Copa

Start at: 2018-03-07 05:55:51
End at: 2018-03-07 05:56:21

# Below is generated by plot.py at 2018-03-07 10:11:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 161.79 Mbit/s
95th percentile per-packet one-way delay: 54.165 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 70.09 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 98.83 Mbit/s
95th percentile per-packet one-way delay: 54.129 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 79.16 Mbit/s
95th percentile per-packet one-way delay: 54.134 ms
Loss rate: 1.61%
Run 10: Report of Copa — Data Link
Run 1: Statistics of FillP

Start at: 2018-03-07 03:12:20
End at: 2018-03-07 03:12:50

# Below is generated by plot.py at 2018-03-07 10:27:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1571.33 Mbit/s
  95th percentile per-packet one-way delay: 219.459 ms
  Loss rate: 4.11%
-- Flow 1:
  Average throughput: 832.87 Mbit/s
  95th percentile per-packet one-way delay: 213.696 ms
  Loss rate: 4.07%
-- Flow 2:
  Average throughput: 783.15 Mbit/s
  95th percentile per-packet one-way delay: 217.141 ms
  Loss rate: 3.62%
-- Flow 3:
  Average throughput: 674.26 Mbit/s
  95th percentile per-packet one-way delay: 248.364 ms
  Loss rate: 5.38%
Run 1: Report of FillP — Data Link
Run 2: Statistics of FillP

Start at: 2018-03-07 03:29:35
End at: 2018-03-07 03:30:05

# Below is generated by plot.py at 2018-03-07 10:27:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1313.03 Mbit/s
95th percentile per-packet one-way delay: 290.907 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 699.53 Mbit/s
95th percentile per-packet one-way delay: 289.234 ms
Loss rate: 2.54%
-- Flow 2:
Average throughput: 580.66 Mbit/s
95th percentile per-packet one-way delay: 309.903 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 700.14 Mbit/s
95th percentile per-packet one-way delay: 187.342 ms
Loss rate: 3.28%
Run 2: Report of FillP — Data Link

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

Legend:
- Flow 1 Ingress (mean 715.24 Mbps)
- Flow 1 Egress (mean 699.53 Mbps)
- Flow 2 Ingress (mean 589.77 Mbps)
- Flow 2 Egress (mean 580.66 Mbps)
- Flow 3 Ingress (mean 716.16 Mbps)
- Flow 3 Egress (mean 700.14 Mbps)

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

Legend:
- Flow 1 (95th percentile 299.23 ms)
- Flow 2 (95th percentile 309.90 ms)
- Flow 3 (95th percentile 187.34 ms)
Run 3: Statistics of FillP

Start at: 2018-03-07 03:46:42
End at: 2018-03-07 03:47:12

# Below is generated by plot.py at 2018-03-07 10:30:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1554.31 Mbit/s
95th percentile per-packet one-way delay: 152.613 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 823.52 Mbit/s
95th percentile per-packet one-way delay: 144.407 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 741.62 Mbit/s
95th percentile per-packet one-way delay: 149.993 ms
Loss rate: 9.30%
-- Flow 3:
Average throughput: 727.61 Mbit/s
95th percentile per-packet one-way delay: 182.201 ms
Loss rate: 4.41%
Run 3: Report of FillP — Data Link

Throughput (Mbps/s)

Time (s)

Flow 1 Ingress (mean 852.51 Mbps/s)  Flow 1 Egress (mean 823.52 Mbps/s)
Flow 2 Ingress (mean 813.56 Mbps/s)  Flow 2 Egress (mean 742.62 Mbps/s)
Flow 3 Ingress (mean 753.21 Mbps/s)  Flow 3 Egress (mean 727.61 Mbps/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 144.41 ms)  Flow 2 (95th percentile 149.99 ms)  Flow 3 (95th percentile 182.20 ms)
Run 4: Statistics of FillP

Start at: 2018-03-07 04:03:59  
End at: 2018-03-07 04:04:29

# Below is generated by plot.py at 2018-03-07 10:30:36  
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1549.57 Mbit/s
  95th percentile per-packet one-way delay: 136.817 ms
  Loss rate: 2.80%
  -- Flow 1:
    Average throughput: 807.03 Mbit/s
    95th percentile per-packet one-way delay: 132.420 ms
    Loss rate: 1.64%
  -- Flow 2:
    Average throughput: 781.86 Mbit/s
    95th percentile per-packet one-way delay: 122.246 ms
    Loss rate: 1.44%
  -- Flow 3:
    Average throughput: 679.72 Mbit/s
    95th percentile per-packet one-way delay: 151.960 ms
    Loss rate: 9.58%
Run 4: Report of FillP — Data Link

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

- Flow 1 ingress (mean 817.60 Mbps)
- Flow 1 egress (mean 807.03 Mbps)
- Flow 2 ingress (mean 789.23 Mbps)
- Flow 2 egress (mean 783.86 Mbps)
- Flow 3 ingress (mean 744.01 Mbps)
- Flow 3 egress (mean 679.72 Mbps)

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

- Flow 1 (95th percentile 132.42 ms)
- Flow 2 (95th percentile 122.25 ms)
- Flow 3 (95th percentile 151.96 ms)
Run 5: Statistics of FillP

Start at: 2018-03-07 04:21:31
End at: 2018-03-07 04:22:01

# Below is generated by plot.py at 2018-03-07 10:32:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1533.87 Mbit/s
  95th percentile per-packet one-way delay: 253.023 ms
  Loss rate: 4.06%
-- Flow 1:
  Average throughput: 816.25 Mbit/s
  95th percentile per-packet one-way delay: 243.228 ms
  Loss rate: 3.72%
-- Flow 2:
  Average throughput: 742.45 Mbit/s
  95th percentile per-packet one-way delay: 276.271 ms
  Loss rate: 4.34%
-- Flow 3:
  Average throughput: 684.60 Mbit/s
  95th percentile per-packet one-way delay: 161.798 ms
  Loss rate: 4.65%
Run 5: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 844.95 Mbps)
- Flow 1 Egress (mean 816.25 Mbps)
- Flow 2 Ingress (mean 772.10 Mbps)
- Flow 2 Egress (mean 742.45 Mbps)
- Flow 3 Ingress (mean 710.30 Mbps)
- Flow 3 Egress (mean 684.60 Mbps)

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

- Flow 1 (95th percentile 243.23 ms)
- Flow 2 (95th percentile 276.27 ms)
- Flow 3 (95th percentile 161.00 ms)
Run 6: Statistics of FillP

Start at: 2018-03-07 04:38:17
End at: 2018-03-07 04:38:47

# Below is generated by plot.py at 2018-03-07 10:37:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1609.12 Mbit/s
  95th percentile per-packet one-way delay: 207.364 ms
  Loss rate: 4.35%
-- Flow 1:
  Average throughput: 838.34 Mbit/s
  95th percentile per-packet one-way delay: 231.045 ms
  Loss rate: 2.75%
-- Flow 2:
  Average throughput: 851.01 Mbit/s
  95th percentile per-packet one-way delay: 132.081 ms
  Loss rate: 3.86%
-- Flow 3:
  Average throughput: 638.02 Mbit/s
  95th percentile per-packet one-way delay: 173.384 ms
  Loss rate: 11.29%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Start at: 2018-03-07 04:55:20
End at: 2018-03-07 04:55:50

# Below is generated by plot.py at 2018-03-07 10:37:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1462.74 Mbit/s
  95th percentile per-packet one-way delay: 267.042 ms
  Loss rate: 4.50%
-- Flow 1:
  Average throughput: 776.01 Mbit/s
  95th percentile per-packet one-way delay: 241.012 ms
  Loss rate: 2.29%
-- Flow 2:
  Average throughput: 740.22 Mbit/s
  95th percentile per-packet one-way delay: 254.283 ms
  Loss rate: 5.44%
-- Flow 3:
  Average throughput: 593.63 Mbit/s
  95th percentile per-packet one-way delay: 361.595 ms
  Loss rate: 10.32%
Run 7: Report of FillP — Data Link

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

- Flow 1 ingress (mean 791.42 Mbit/s)
- Flow 1 egress (mean 776.01 Mbit/s)
- Flow 2 ingress (mean 778.64 Mbit/s)
- Flow 2 egress (mean 740.22 Mbit/s)
- Flow 3 ingress (mean 655.19 Mbit/s)
- Flow 3 egress (mean 593.63 Mbit/s)

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

- Flow 1 (95th percentile 241.01 ms)
- Flow 2 (95th percentile 254.28 ms)
- Flow 3 (95th percentile 361.60 ms)
Run 8: Statistics of FILLP

Start at: 2018-03-07 05:12:20
End at: 2018-03-07 05:12:50

# Below is generated by plot.py at 2018-03-07 10:40:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1570.94 Mbit/s
95th percentile per-packet one-way delay: 254.908 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 815.81 Mbit/s
95th percentile per-packet one-way delay: 272.088 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 769.70 Mbit/s
95th percentile per-packet one-way delay: 138.576 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 742.52 Mbit/s
95th percentile per-packet one-way delay: 201.426 ms
Loss rate: 2.15%
Run 8: Report of FillP — Data Link

The graphs show the throughput and one-way delay over time for different flows. The throughput graph illustrates the data transfer rate in Mbps, while the one-way delay graph shows the delay in ms. The labels for the data points indicate the mean Mbps and the 95th percentile delay in ms for each flow.
Run 9: Statistics of FillP

Start at: 2018-03-07 05:29:36
End at: 2018-03-07 05:30:06

# Below is generated by plot.py at 2018-03-07 10:55:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1553.57 Mbit/s
  95th percentile per-packet one-way delay: 213.116 ms
  Loss rate: 5.27%
  -- Flow 1:
  Average throughput: 817.79 Mbit/s
  95th percentile per-packet one-way delay: 159.239 ms
  Loss rate: 4.26%
  -- Flow 2:
  Average throughput: 781.62 Mbit/s
  95th percentile per-packet one-way delay: 232.116 ms
  Loss rate: 5.09%
  -- Flow 3:
  Average throughput: 658.77 Mbit/s
  95th percentile per-packet one-way delay: 203.508 ms
  Loss rate: 9.31%
Run 9: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 851.20 Mbps)
- Flow 1 Egress (mean 817.79 Mbps)
- Flow 2 Ingress (mean 819.29 Mbps)
- Flow 2 Egress (mean 783.62 Mbps)
- Flow 3 Ingress (mean 718.88 Mbps)
- Flow 3 Egress (mean 658.77 Mbps)

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

- Flow 1 (95th percentile 159.24 ms)
- Flow 2 (95th percentile 232.12 ms)
- Flow 3 (95th percentile 203.51 ms)
Run 10: Statistics of FillP

Start at: 2018-03-07 05:46:49
End at: 2018-03-07 05:47:19

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1509.63 Mbit/s
95th percentile per-packet one-way delay: 204.207 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 802.86 Mbit/s
95th percentile per-packet one-way delay: 226.579 ms
Loss rate: 3.94%
-- Flow 2:
Average throughput: 733.05 Mbit/s
95th percentile per-packet one-way delay: 168.997 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 669.55 Mbit/s
95th percentile per-packet one-way delay: 154.516 ms
Loss rate: 6.90%
Run 10: Report of FillIP — Data Link
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-07 03:11:18
End at: 2018-03-07 03:11:48

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.10 Mbit/s
95th percentile per-packet one-way delay: 55.842 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 175.20 Mbit/s
95th percentile per-packet one-way delay: 55.338 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 168.08 Mbit/s
95th percentile per-packet one-way delay: 56.060 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 144.14 Mbit/s
95th percentile per-packet one-way delay: 57.574 ms
Loss rate: 1.24%
Run 1: Report of Indigo-1-32 — Data Link

Graph 1: Throughput (Mbps) vs Time (s) for Flow 1, Flow 2, and Flow 3.

Graph 2: Per packet one-way delay (ms) vs Time (s) for Flow 1, Flow 2, and Flow 3.
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-07 03:28:36
End at: 2018-03-07 03:29:06

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.44 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 168.55 Mbit/s
95th percentile per-packet one-way delay: 54.641 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 131.72 Mbit/s
95th percentile per-packet one-way delay: 55.067 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 137.20 Mbit/s
95th percentile per-packet one-way delay: 54.959 ms
Loss rate: 1.17%
Run 2: Report of Indigo-1-32 — Data Link
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-07 03:45:41  
End at: 2018-03-07 03:46:11  

# Below is generated by plot.py at 2018-03-07 10:56:18  
# Datalink statistics  
-- Total of 3 flows:  
  Average throughput: 324.89 Mbit/s  
  95th percentile per-packet one-way delay: 55.000 ms  
  Loss rate: 0.51%  
-- Flow 1:  
  Average throughput: 183.21 Mbit/s  
  95th percentile per-packet one-way delay: 54.757 ms  
  Loss rate: 0.34%  
-- Flow 2:  
  Average throughput: 151.08 Mbit/s  
  95th percentile per-packet one-way delay: 55.391 ms  
  Loss rate: 0.55%  
-- Flow 3:  
  Average throughput: 129.26 Mbit/s  
  95th percentile per-packet one-way delay: 55.000 ms  
  Loss rate: 1.16%
Run 3: Report of Indigo-1-32 — Data Link
Run 4: Statistics of Indigo-1-32

Start at: 2018-03-07 04:02:58
End at: 2018-03-07 04:03:28

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.16 Mbit/s
95th percentile per-packet one-way delay: 54.421 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 180.68 Mbit/s
95th percentile per-packet one-way delay: 54.216 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 154.70 Mbit/s
95th percentile per-packet one-way delay: 54.516 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 138.34 Mbit/s
95th percentile per-packet one-way delay: 54.802 ms
Loss rate: 1.20%
Run 4: Report of Indigo-1-32 — Data Link

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

Legend:
- Flow 1 ingress (mean 180.69 Mbit/s)
- Flow 1 egress (mean 180.68 Mbit/s)
- Flow 2 ingress (mean 154.79 Mbit/s)
- Flow 2 egress (mean 154.70 Mbit/s)
- Flow 3 ingress (mean 138.51 Mbit/s)
- Flow 3 egress (mean 138.54 Mbit/s)
Run 5: Statistics of Indigo-1-32

Start at: 2018-03-07 04:20:29
End at: 2018-03-07 04:20:59

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 339.30 Mbit/s
  95th percentile per-packet one-way delay: 56.253 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 183.37 Mbit/s
  95th percentile per-packet one-way delay: 55.303 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 166.19 Mbit/s
  95th percentile per-packet one-way delay: 56.646 ms
  Loss rate: 0.47%
-- Flow 3:
  Average throughput: 141.91 Mbit/s
  95th percentile per-packet one-way delay: 59.674 ms
  Loss rate: 1.32%
Run 5: Report of Indigo-1-32 — Data Link
Run 6: Statistics of Indigo-1-32

Start at: 2018-03-07 04:37:16
End at: 2018-03-07 04:37:46

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 323.48 Mbit/s
95th percentile per-packet one-way delay: 54.590 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 175.35 Mbit/s
95th percentile per-packet one-way delay: 54.346 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 156.11 Mbit/s
95th percentile per-packet one-way delay: 54.729 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 137.71 Mbit/s
95th percentile per-packet one-way delay: 55.311 ms
Loss rate: 1.12%
Run 6: Report of Indigo-1-32 — Data Link

![Graph of Throughput (Mbps) over time](image)

- **Flow 1 ingress (mean 175.31 Mbps)**
- **Flow 1 egress (mean 175.35 Mbps)**
- **Flow 2 ingress (mean 156.16 Mbps)**
- **Flow 2 egress (mean 156.11 Mbps)**
- **Flow 3 ingress (mean 137.79 Mbps)**
- **Flow 3 egress (mean 137.71 Mbps)**

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

- **Flow 1 (95th percentile 54.35 ms)**
- **Flow 2 (95th percentile 54.73 ms)**
- **Flow 3 (95th percentile 55.31 ms)**

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Run 7: Statistics of Indigo-1-32

Start at: 2018-03-07 04:54:19
End at: 2018-03-07 04:54:49

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 331.73 Mbit/s
  95th percentile per-packet one-way delay: 55.170 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 181.50 Mbit/s
  95th percentile per-packet one-way delay: 54.933 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 159.87 Mbit/s
  95th percentile per-packet one-way delay: 55.485 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 138.06 Mbit/s
  95th percentile per-packet one-way delay: 55.070 ms
  Loss rate: 1.27%
Run 7: Report of Indigo-1-32 — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 181.47 Mbps)
Flow 1 egress (mean 181.50 Mbps)
Flow 2 ingress (mean 159.87 Mbps)
Flow 2 egress (mean 159.87 Mbps)
Flow 3 ingress (mean 138.38 Mbps)
Flow 3 egress (mean 138.06 Mbps)

Per packet one way delay (ms)

Flow 1 (95th percentile 54.93 ms)
Flow 2 (95th percentile 55.48 ms)
Flow 3 (95th percentile 55.07 ms)
Run 8: Statistics of Indigo-1-32

Start at: 2018-03-07 05:11:19
End at: 2018-03-07 05:11:49

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.53 Mbit/s
95th percentile per-packet one-way delay: 55.215 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 180.76 Mbit/s
95th percentile per-packet one-way delay: 54.876 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 156.59 Mbit/s
95th percentile per-packet one-way delay: 55.620 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 138.13 Mbit/s
95th percentile per-packet one-way delay: 55.554 ms
Loss rate: 1.23%
Run 8: Report of Indigo-1-32 — Data Link

---

**Throughput (Mb/s) vs Time (s)**

- **Flow 1 ingress (mean 180.71 Mb/s)**
- **Flow 1 egress (mean 180.76 Mb/s)**
- **Flow 2 ingress (mean 156.56 Mb/s)**
- **Flow 2 egress (mean 156.59 Mb/s)**
- **Flow 3 ingress (mean 138.32 Mb/s)**
- **Flow 3 egress (mean 138.33 Mb/s)**

---

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

- **Flow 1 (95th percentile 54.88 ms)**
- **Flow 2 (95th percentile 55.62 ms)**
- **Flow 3 (95th percentile 55.55 ms)**
Run 9: Statistics of Indigo-1-32

Start at: 2018-03-07 05:28:36
End at: 2018-03-07 05:29:06

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 326.22 Mbit/s
  95th percentile per-packet one-way delay: 60.211 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 177.54 Mbit/s
  95th percentile per-packet one-way delay: 57.987 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 159.08 Mbit/s
  95th percentile per-packet one-way delay: 60.636 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 133.97 Mbit/s
  95th percentile per-packet one-way delay: 62.328 ms
  Loss rate: 1.14%
Run 9: Report of Indigo-1-32 — Data Link
Run 10: Statistics of Indigo-1-32

Start at: 2018-03-07 05:45:50
End at: 2018-03-07 05:46:20

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.90 Mbit/s
95th percentile per-packet one-way delay: 55.257 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 167.99 Mbit/s
95th percentile per-packet one-way delay: 54.940 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 149.07 Mbit/s
95th percentile per-packet one-way delay: 55.361 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 143.79 Mbit/s
95th percentile per-packet one-way delay: 55.913 ms
Loss rate: 0.96%
Run 10: Report of Indigo-1-32 — Data Link

Diagram 1: Throughput (Mbps) over Time (s)

Diagram 2: Per-packet one-way delay (ms) over Time (s)
Run 1: Statistics of Vivace-latency

Start at: 2018-03-07 03:23:25
End at: 2018-03-07 03:23:55

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 440.55 Mbit/s
  95th percentile per-packet one-way delay: 51.046 ms
  Loss rate: 1.64%
-- Flow 1:
  Average throughput: 267.13 Mbit/s
  95th percentile per-packet one-way delay: 51.130 ms
  Loss rate: 0.51%
-- Flow 2:
  Average throughput: 238.02 Mbit/s
  95th percentile per-packet one-way delay: 50.996 ms
  Loss rate: 3.50%
-- Flow 3:
  Average throughput: 47.77 Mbit/s
  95th percentile per-packet one-way delay: 50.845 ms
  Loss rate: 1.44%
Run 1: Report of Vivace-latency — Data Link

![Graph showing throughput and per-packet one-way delay for Flow 1, Flow 2, and Flow 3 over time.]

- **Throughput**
  - Flow 1 ingress (mean 267.57 Mbit/s)
  - Flow 1 egress (mean 267.13 Mbit/s)
  - Flow 2 ingress (mean 245.37 Mbit/s)
  - Flow 2 egress (mean 238.02 Mbit/s)
  - Flow 3 ingress (mean 47.09 Mbit/s)
  - Flow 3 egress (mean 47.77 Mbit/s)

- **Per-packet one-way delay**
  - Flow 1 (95th percentile 51.13 ms)
  - Flow 2 (95th percentile 51.00 ms)
  - Flow 3 (95th percentile 50.84 ms)
Run 2: Statistics of Vivace-latency

Start at: 2018-03-07 03:40:12
End at: 2018-03-07 03:40:42

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 417.68 Mbit/s
95th percentile per-packet one-way delay: 53.450 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 249.32 Mbit/s
95th percentile per-packet one-way delay: 50.966 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 213.41 Mbit/s
95th percentile per-packet one-way delay: 50.587 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 1.46%
Run 2: Report of Vivace-latency — Data Link
Run 3: Statistics of Vivace-latency

Start at: 2018-03-07 03:57:26  
End at: 2018-03-07 03:57:56

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 498.74 Mbit/s
  95th percentile per-packet one-way delay: 53.558 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 309.62 Mbit/s
  95th percentile per-packet one-way delay: 53.785 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 239.80 Mbit/s
  95th percentile per-packet one-way delay: 51.501 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 91.95 Mbit/s
  95th percentile per-packet one-way delay: 50.559 ms
  Loss rate: 1.50%
Run 3: Report of Vivace-latency — Data Link

![Graph of network performance metrics]
Run 4: Statistics of Vivace-latency

Start at: 2018-03-07 04:15:05
End at: 2018-03-07 04:15:35

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 431.10 Mbit/s
  95th percentile per-packet one-way delay: 53.898 ms
  Loss rate: 0.56%
-- Flow 1:
  Average throughput: 239.04 Mbit/s
  95th percentile per-packet one-way delay: 50.227 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 228.40 Mbit/s
  95th percentile per-packet one-way delay: 54.034 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 124.32 Mbit/s
  95th percentile per-packet one-way delay: 54.149 ms
  Loss rate: 0.95%
Run 4: Report of Vivace-latency — Data Link

[Graph of throughput over time for different flows]

[Graph of packet one-way delay over time for different flows]
Run 5: Statistics of Vivace-latency

Start at: 2018-03-07 04:32:10
End at: 2018-03-07 04:32:40

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.22 Mbit/s
95th percentile per-packet one-way delay: 54.038 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 241.77 Mbit/s
95th percentile per-packet one-way delay: 54.125 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 233.06 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 116.57 Mbit/s
95th percentile per-packet one-way delay: 54.034 ms
Loss rate: 1.11%
Run 5: Report of Vivace-latency — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 241.70 Mbps)
- Flow 1 egress (mean 241.77 Mbps)
- Flow 2 ingress (mean 233.16 Mbps)
- Flow 2 egress (mean 233.06 Mbps)
- Flow 3 ingress (mean 116.62 Mbps)
- Flow 3 egress (mean 116.57 Mbps)

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

- Flow 1 (95th percentile 54.12 ms)
- Flow 2 (95th percentile 53.72 ms)
- Flow 3 (95th percentile 54.03 ms)

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Run 6: Statistics of Vivace-latency

Start at: 2018-03-07 04:48:55
End at: 2018-03-07 04:49:25

# Below is generated by plot.py at 2018-03-07 10:56:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 470.76 Mbit/s
95th percentile per-packet one-way delay: 53.927 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 256.56 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 232.98 Mbit/s
95th percentile per-packet one-way delay: 54.145 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 183.02 Mbit/s
95th percentile per-packet one-way delay: 54.612 ms
Loss rate: 1.36%
Run 6: Report of Vivace-latency — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 236.60 Mbps)
Flow 1 egress (mean 256.56 Mbps)
Flow 2 ingress (mean 233.22 Mbps)
Flow 2 egress (mean 232.98 Mbps)
Flow 3 ingress (mean 183.50 Mbps)
Flow 3 egress (mean 183.02 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 50.48 ms)
Flow 2 (95th percentile 54.15 ms)
Flow 3 (95th percentile 54.61 ms)
Run 7: Statistics of Vivace-latency

Start at: 2018-03-07 05:06:00
End at: 2018-03-07 05:06:30

# Below is generated by plot.py at 2018-03-07 10:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 453.33 Mbit/s
95th percentile per-packet one-way delay: 53.719 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 283.48 Mbit/s
95th percentile per-packet one-way delay: 51.441 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 222.21 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 3.83%
Run 7: Report of Vivace-latency — Data Link

![Graph of throughput and packet delay]

**Throughput (Mbps)**
- Flow 1 ingress (mean 283.31 Mbps)
- Flow 1 egress (mean 283.48 Mbps)
- Flow 2 ingress (mean 222.43 Mbps)
- Flow 2 egress (mean 222.21 Mbps)
- Flow 3 ingress (mean 70.08 Mbps)
- Flow 3 egress (mean 68.90 Mbps)

**Per packet one way delay (ms)**
- Flow 1 (95th percentile 51.44 ms)
- Flow 2 (95th percentile 53.85 ms)
- Flow 3 (95th percentile 53.78 ms)
Run 8: Statistics of Vivace-latency

Start at: 2018-03-07 05:23:06
End at: 2018-03-07 05:23:36

# Below is generated by plot.py at 2018-03-07 10:56:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.25 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 53.955 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 243.80 Mbit/s
95th percentile per-packet one-way delay: 53.787 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 179.20 Mbit/s
95th percentile per-packet one-way delay: 55.023 ms
Loss rate: 1.33%
Run 8: Report of Vivace-latency — Data Link

[Graph showing network latency and throughput over time for Flow 1, 2, and 3]

[Graph showing packet loss and delay over time for Flow 1, 2, and 3]
Run 9: Statistics of Vivace-latency

Start at: 2018-03-07 05:40:23
End at: 2018-03-07 05:40:53

# Below is generated by plot.py at 2018-03-07 10:59:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 479.90 Mbit/s
95th percentile per-packet one-way delay: 53.955 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 263.74 Mbit/s
95th percentile per-packet one-way delay: 53.960 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 248.75 Mbit/s
95th percentile per-packet one-way delay: 53.910 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 156.88 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 0.85%
Run 9: Report of Vivace-latency — Data Link
Run 10: Statistics of Vivace-latency

Start at: 2018-03-07 05:57:31
End at: 2018-03-07 05:58:01

# Below is generated by plot.py at 2018-03-07 10:59:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.03 Mbit/s
95th percentile per-packet one-way delay: 54.004 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 238.19 Mbit/s
95th percentile per-packet one-way delay: 53.994 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 245.60 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 45.93 Mbit/s
95th percentile per-packet one-way delay: 54.064 ms
Loss rate: 1.53%
Run 10: Report of Vivace-latency — Data Link
Run 1: Statistics of Vivace-loss

Start at: 2018-03-07 03:24:34
End at: 2018-03-07 03:25:04

# Below is generated by plot.py at 2018-03-07 11:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.10 Mbit/s
95th percentile per-packet one-way delay: 57.677 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 221.30 Mbit/s
95th percentile per-packet one-way delay: 53.826 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 263.54 Mbit/s
95th percentile per-packet one-way delay: 61.516 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 192.83 Mbit/s
95th percentile per-packet one-way delay: 59.965 ms
Loss rate: 1.11%
Run 1: Report of Vivace-loss — Data Link
Run 2: Statistics of Vivace-loss

Start at: 2018-03-07 03:41:19
End at: 2018-03-07 03:41:49

# Below is generated by plot.py at 2018-03-07 11:04:00
# Datalink statistics
- Total of 3 flows:
  Average throughput: 571.79 Mbit/s
  95th percentile per-packet one-way delay: 54.565 ms
  Loss rate: 0.46%
- Flow 1:
  Average throughput: 342.40 Mbit/s
  95th percentile per-packet one-way delay: 51.711 ms
  Loss rate: 0.29%
- Flow 2:
  Average throughput: 234.76 Mbit/s
  95th percentile per-packet one-way delay: 54.226 ms
  Loss rate: 0.66%
- Flow 3:
  Average throughput: 225.95 Mbit/s
  95th percentile per-packet one-way delay: 59.867 ms
  Loss rate: 0.82%
Run 2: Report of Vivace-loss — Data Link

![Graph 1: Throughput](image1)

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

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Run 3: Statistics of Vivace-loss

Start at: 2018-03-07 03:58:38
End at: 2018-03-07 03:59:08

# Below is generated by plot.py at 2018-03-07 11:04:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 604.41 Mbit/s
  95th percentile per-packet one-way delay: 56.465 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 333.75 Mbit/s
  95th percentile per-packet one-way delay: 51.897 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 315.40 Mbit/s
  95th percentile per-packet one-way delay: 96.476 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 188.13 Mbit/s
  95th percentile per-packet one-way delay: 75.762 ms
  Loss rate: 1.69%
Run 3: Report of Vivace-loss — Data Link
Run 4: Statistics of Vivace-loss

Start at: 2018-03-07 04:16:13
End at: 2018-03-07 04:16:43

# Below is generated by plot.py at 2018-03-07 11:05:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 581.63 Mbit/s
95th percentile per-packet one-way delay: 54.404 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 314.54 Mbit/s
95th percentile per-packet one-way delay: 53.714 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 274.17 Mbit/s
95th percentile per-packet one-way delay: 54.314 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 261.06 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 1.34%
Run 4: Report of Vivace-loss — Data Link
Run 5: Statistics of Vivace-loss

Start at: 2018-03-07 04:33:19
End at: 2018-03-07 04:33:49

# Below is generated by plot.py at 2018-03-07 11:05:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 543.21 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 295.20 Mbit/s
95th percentile per-packet one-way delay: 54.163 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 253.55 Mbit/s
95th percentile per-packet one-way delay: 52.926 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 244.28 Mbit/s
95th percentile per-packet one-way delay: 50.430 ms
Loss rate: 1.38%
Run 5: Report of Vivace-loss — Data Link

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**Throughput vs Time**

- **Flow 1 ingress (mean 295.26 Mbit/s)**
- **Flow 1 egress (mean 295.26 Mbit/s)**
- **Flow 2 ingress (mean 253.72 Mbit/s)**
- **Flow 2 egress (mean 253.55 Mbit/s)**
- **Flow 3 ingress (mean 245.13 Mbit/s)**
- **Flow 3 egress (mean 244.28 Mbit/s)**

**Latency vs Time**

- **Flow 1 (95th percentile 54.16 ms)**
- **Flow 2 (95th percentile 52.93 ms)**
- **Flow 3 (95th percentile 50.43 ms)**
Run 6: Statistics of Vivace-loss

Start at: 2018-03-07 04:50:06
End at: 2018-03-07 04:50:36

# Below is generated by plot.py at 2018-03-07 11:06:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 571.89 Mbit/s
  95th percentile per-packet one-way delay: 55.342 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 290.89 Mbit/s
  95th percentile per-packet one-way delay: 53.696 ms
  Loss rate: 0.31%
-- Flow 2:
  Average throughput: 314.44 Mbit/s
  95th percentile per-packet one-way delay: 62.202 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 221.60 Mbit/s
  95th percentile per-packet one-way delay: 54.361 ms
  Loss rate: 0.88%
Run 6: Report of Vivace-loss — Data Link

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

- Flow 1 ingress (mean 290.79 Mbit/s)
- Flow 1 egress (mean 290.89 Mbit/s)
- Flow 2 ingress (mean 314.49 Mbit/s)
- Flow 2 egress (mean 314.44 Mbit/s)
- Flow 3 ingress (mean 221.38 Mbit/s)
- Flow 3 egress (mean 221.69 Mbit/s)
Run 7: Statistics of Vivace-loss

Start at: 2018-03-07 05:07:09
End at: 2018-03-07 05:07:39

# Below is generated by plot.py at 2018-03-07 11:07:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 514.54 Mbit/s
  95th percentile per-packet one-way delay: 54.098 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 283.70 Mbit/s
  95th percentile per-packet one-way delay: 53.525 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 259.57 Mbit/s
  95th percentile per-packet one-way delay: 54.371 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 179.59 Mbit/s
  95th percentile per-packet one-way delay: 53.768 ms
  Loss rate: 1.70%
Run 7: Report of Vivace-loss — Data Link

Graph 1: Throughput vs Time

Graph 2: Per-packet one-way delay vs Time

Legend:
- Flow 1 ingress (mean 283.97 Mbit/s)
- Flow 1 egress (mean 283.70 Mbit/s)
- Flow 2 ingress (mean 259.68 Mbit/s)
- Flow 2 egress (mean 259.57 Mbit/s)
- Flow 3 ingress (mean 190.55 Mbit/s)
- Flow 3 egress (mean 179.59 Mbit/s)
Run 8: Statistics of Vivace-loss

Start at: 2018-03-07 05:24:16
End at: 2018-03-07 05:24:46

# Below is generated by plot.py at 2018-03-07 11:09:25
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 582.12 Mbit/s
  95th percentile per-packet one-way delay: 53.519 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 295.58 Mbit/s
  95th percentile per-packet one-way delay: 51.585 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 319.21 Mbit/s
  95th percentile per-packet one-way delay: 57.605 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 228.82 Mbit/s
  95th percentile per-packet one-way delay: 54.492 ms
  Loss rate: 1.40%
Run 8: Report of Vivace-loss — Data Link
Run 9: Statistics of Vivace-loss

Start at: 2018-03-07 05:41:35
End at: 2018-03-07 05:42:05

# Below is generated by plot.py at 2018-03-07 11:11:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.79 Mbit/s
95th percentile per-packet one-way delay: 56.218 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 341.94 Mbit/s
95th percentile per-packet one-way delay: 58.226 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 278.45 Mbit/s
95th percentile per-packet one-way delay: 54.459 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 178.05 Mbit/s
95th percentile per-packet one-way delay: 54.555 ms
Loss rate: 1.38%
Run 9: Report of Vivace-loss — Data Link
Run 10: Statistics of Vivace-loss

Start at: 2018-03-07 05:58:39
End at: 2018-03-07 05:59:09

# Below is generated by plot.py at 2018-03-07 11:13:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 549.65 Mbit/s
  95th percentile per-packet one-way delay: 54.944 ms
  Loss rate: 1.46%
  -- Flow 1:
  Average throughput: 303.76 Mbit/s
  95th percentile per-packet one-way delay: 54.600 ms
  Loss rate: 0.38%
  -- Flow 2:
  Average throughput: 251.71 Mbit/s
  95th percentile per-packet one-way delay: 54.726 ms
  Loss rate: 3.37%
  -- Flow 3:
  Average throughput: 241.85 Mbit/s
  95th percentile per-packet one-way delay: 57.019 ms
  Loss rate: 1.46%
Run 10: Report of Vivace-loss — Data Link
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-07 03:17:05
End at: 2018-03-07 03:17:35

# Below is generated by plot.py at 2018-03-07 11:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 515.91 Mbit/s
95th percentile per-packet one-way delay: 54.697 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 297.68 Mbit/s
95th percentile per-packet one-way delay: 54.903 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 249.28 Mbit/s
95th percentile per-packet one-way delay: 54.406 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 162.04 Mbit/s
95th percentile per-packet one-way delay: 54.520 ms
Loss rate: 1.31%
Run 1: Report of Vivace-LTE — Data Link
Run 2: Statistics of Vivace-LTE

Start at: 2018-03-07 03:34:13
End at: 2018-03-07 03:34:43

# Below is generated by plot.py at 2018-03-07 11:13:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 473.66 Mbit/s
  95th percentile per-packet one-way delay: 54.538 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 269.71 Mbit/s
  95th percentile per-packet one-way delay: 54.610 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 227.16 Mbit/s
  95th percentile per-packet one-way delay: 54.269 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 162.75 Mbit/s
  95th percentile per-packet one-way delay: 54.833 ms
  Loss rate: 1.43%
Run 2: Report of Vivace-LTE — Data Link

![Graph 1: Throughput over Time]

- Flow 1 ingress (mean 269.89 Mbit/s)
- Flow 1 egress (mean 269.71 Mbit/s)
- Flow 2 ingress (mean 227.42 Mbit/s)
- Flow 2 egress (mean 227.16 Mbit/s)
- Flow 3 ingress (mean 163.33 Mbit/s)
- Flow 3 egress (mean 162.75 Mbit/s)

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

- Flow 1 (95th percentile 54.61 ms)
- Flow 2 (95th percentile 54.27 ms)
- Flow 3 (95th percentile 54.83 ms)
Run 3: Statistics of Vivace-LTE

Start at: 2018-03-07 03:51:24
End at: 2018-03-07 03:51:54

# Below is generated by plot.py at 2018-03-07 11:14:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 517.41 Mbit/s
  95th percentile per-packet one-way delay: 53.885 ms
  Loss rate: 0.62%
-- Flow 1:
  Average throughput: 296.32 Mbit/s
  95th percentile per-packet one-way delay: 53.526 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 246.33 Mbit/s
  95th percentile per-packet one-way delay: 53.920 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 177.00 Mbit/s
  95th percentile per-packet one-way delay: 54.076 ms
  Loss rate: 1.61%
Run 3: Report of Vivace-LTE — Data Link

![Throughput Graph]

Throughput (Mbps)

Time (s)

Legend:
- Flow 1 ingress (mean 298.55 Mbps)
- Flow 1 egress (mean 296.32 Mbps)
- Flow 2 ingress (mean 246.60 Mbps)
- Flow 2 egress (mean 246.33 Mbps)
- Flow 3 ingress (mean 176.04 Mbps)
- Flow 3 egress (mean 177.00 Mbps)

![Delay Graph]

Per-packet one way delay (ms)

Time (s)

Legend:
- Flow 1 (95th percentile 53.53 ms)
- Flow 2 (95th percentile 53.92 ms)
- Flow 3 (95th percentile 54.08 ms)
Run 4: Statistics of Vivace-LTE

Start at: 2018-03-07 04:08:37
End at: 2018-03-07 04:09:07

# Below is generated by plot.py at 2018-03-07 11:15:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 553.69 Mbit/s
  95th percentile per-packet one-way delay: 54.438 ms
  Loss rate: 0.55%
-- Flow 1:
  Average throughput: 311.57 Mbit/s
  95th percentile per-packet one-way delay: 54.640 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 282.07 Mbit/s
  95th percentile per-packet one-way delay: 54.218 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 168.32 Mbit/s
  95th percentile per-packet one-way delay: 53.770 ms
  Loss rate: 1.36%
Run 4: Report of Vivace-LTE — Data Link

![Graph 1: Throughput over time for different flows]

- Flow 1 ingress (mean 311.66 Mbit/s)
- Flow 1 egress (mean 311.57 Mbit/s)
- Flow 2 ingress (mean 282.26 Mbit/s)
- Flow 2 egress (mean 282.07 Mbit/s)
- Flow 3 ingress (mean 168.87 Mbit/s)
- Flow 3 egress (mean 168.32 Mbit/s)

![Graph 2: Per-packet end-to-end delay over time for different flows]

- Flow 1 (95th percentile 54.64 ms)
- Flow 2 (95th percentile 54.22 ms)
- Flow 3 (95th percentile 53.77 ms)
Run 5: Statistics of Vivace-LTE

Start at: 2018-03-07 04:26:09
End at: 2018-03-07 04:26:39

# Below is generated by plot.py at 2018-03-07 11:16:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 489.97 Mbit/s
  95th percentile per-packet one-way delay: 53.731 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 259.71 Mbit/s
  95th percentile per-packet one-way delay: 53.881 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 264.33 Mbit/s
  95th percentile per-packet one-way delay: 50.927 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 168.21 Mbit/s
  95th percentile per-packet one-way delay: 53.831 ms
  Loss rate: 1.30%
Run 5: Report of Vivace-LTE — Data Link

Throughput (Mbps):[Graph]

Time (s): [Graph]

Flow 1 ingress (mean 259.97 Mbps) — Flow 1 egress (mean 259.71 Mbps)
Flow 2 ingress (mean 264.37 Mbps) — Flow 2 egress (mean 264.33 Mbps)
Flow 3 ingress (mean 168.57 Mbps) — Flow 3 egress (mean 168.21 Mbps)

Packet size (ms): [Graph]

Time (s): [Graph]

Flow 1 (95th percentile 53.88 ms) — Flow 2 (95th percentile 50.93 ms) — Flow 3 (95th percentile 53.83 ms)
Run 6: Statistics of Vivace-LTE

Start at: 2018-03-07 04:43:00
End at: 2018-03-07 04:43:30

# Below is generated by plot.py at 2018-03-07 11:17:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 516.00 Mbit/s
  95th percentile per-packet one-way delay: 54.339 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 259.88 Mbit/s
  95th percentile per-packet one-way delay: 54.443 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 304.67 Mbit/s
  95th percentile per-packet one-way delay: 54.604 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 165.34 Mbit/s
  95th percentile per-packet one-way delay: 50.931 ms
  Loss rate: 1.40%
Run 6: Report of Vivace-LTE — Data Link

![Throughput Graph](image1)

![Packet delay Graph](image2)
Run 7: Statistics of Vivace-LTE

Start at: 2018-03-07 04:59:59
End at: 2018-03-07 05:00:29

# Below is generated by plot.py at 2018-03-07 11:17:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 459.23 Mbit/s
  95th percentile per-packet one-way delay: 53.844 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 253.43 Mbit/s
  95th percentile per-packet one-way delay: 53.885 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 218.60 Mbit/s
  95th percentile per-packet one-way delay: 50.740 ms
  Loss rate: 0.34%
-- Flow 3:
  Average throughput: 186.51 Mbit/s
  95th percentile per-packet one-way delay: 53.783 ms
  Loss rate: 1.67%
Run 7: Report of Vivace-LTE — Data Link

![Graph showing throughput and per-packet one-way delay over time for three flows with specified mean throughputs and 95th percentiles for each flow.]
Run 8: Statistics of Vivace-LTE

Start at: 2018-03-07 05:16:59
End at: 2018-03-07 05:17:29

# Below is generated by plot.py at 2018-03-07 11:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.16 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 263.86 Mbit/s
95th percentile per-packet one-way delay: 53.539 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 245.52 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 175.29 Mbit/s
95th percentile per-packet one-way delay: 53.945 ms
Loss rate: 1.40%
Run 8: Report of Vivace-LTE — Data Link
Run 9: Statistics of Vivace-LTE

Start at: 2018-03-07 05:34:17
End at: 2018-03-07 05:34:47

# Below is generated by plot.py at 2018-03-07 11:18:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 527.19 Mbit/s
  95th percentile per-packet one-way delay: 54.168 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 287.77 Mbit/s
  95th percentile per-packet one-way delay: 53.843 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 229.60 Mbit/s
  95th percentile per-packet one-way delay: 54.604 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 266.92 Mbit/s
  95th percentile per-packet one-way delay: 54.364 ms
  Loss rate: 0.78%
Run 9: Report of Vivace-LTE — Data Link
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-07 05:51:30
End at: 2018-03-07 05:52:00

# Below is generated by plot.py at 2018-03-07 11:18:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 451.72 Mbit/s
  95th percentile per-packet one-way delay: 54.545 ms
  Loss rate: 1.66%
-- Flow 1:
  Average throughput: 242.88 Mbit/s
  95th percentile per-packet one-way delay: 54.192 ms
  Loss rate: 2.31%
-- Flow 2:
  Average throughput: 234.72 Mbit/s
  95th percentile per-packet one-way delay: 54.715 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 162.97 Mbit/s
  95th percentile per-packet one-way delay: 55.049 ms
  Loss rate: 1.72%
Run 10: Report of Vivace-LTE — Data Link