Pantheon Report

Generated at 2018-06-21 04:14:13 (UTC).
Data path: GCE Tokyo Ethernet (remote) → GCE Sydney Ethernet (local).
Repeated the test of 16 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).
NTP offsets were measured against time.google.com and have been applied to correct the timestamps in logs.

Git summary:
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436b4d834
third_party/genericCC @ c7966e494a92996eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906e6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3c0f42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)

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test from GCE Tokyo to GCE Sydney, 10 runs of 30s each per scheme
3 flows with 10s interval between flows
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</tbody>
</table>
Run 1: Statistics of TCP BBR

Local clock offset: 0.086 ms
Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2018-06-21 02:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 417.26 Mbit/s
95th percentile per-packet one-way delay: 64.727 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 211.80 Mbit/s
95th percentile per-packet one-way delay: 63.087 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 208.21 Mbit/s
95th percentile per-packet one-way delay: 64.523 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 203.32 Mbit/s
95th percentile per-packet one-way delay: 66.804 ms
Loss rate: 1.12%
Run 1: Report of TCP BBR — Data Link

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**Throughput (Mbps)** vs **Time (s)**

- **Flow 1 ing (mean 211.82 Mbps)**
- **Flow 1 egress (mean 211.80 Mbps)**
- **Flow 2 ing (mean 208.32 Mbps)**
- **Flow 2 egress (mean 208.21 Mbps)**
- **Flow 3 ing (mean 203.40 Mbps)**
- **Flow 3 egress (mean 203.32 Mbps)**

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

- **Flow 1 (95th percentile 63.09 ms)**
- **Flow 2 (95th percentile 64.52 ms)**
- **Flow 3 (95th percentile 66.80 ms)**
Run 2: Statistics of TCP BBR

Start at: 2018-06-20 22:15:34
End at: 2018-06-20 22:16:04
Local clock offset: -0.176 ms
Remote clock offset: -0.969 ms

# Below is generated by plot.py at 2018-06-21 02:03:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 409.64 Mbit/s
  95th percentile per-packet one-way delay: 72.366 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 210.76 Mbit/s
  95th percentile per-packet one-way delay: 69.679 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 201.40 Mbit/s
  95th percentile per-packet one-way delay: 72.011 ms
  Loss rate: 0.58%
-- Flow 3:
  Average throughput: 196.92 Mbit/s
  95th percentile per-packet one-way delay: 79.352 ms
  Loss rate: 1.16%
Run 2: Report of TCP BBR — Data Link

![Graph showing network traffic over time for different flows. The graphs depict throughput and per-packet one-way delay.]

- **Throughput (Mbps)**: The throughput for each flow is shown over time. The graph indicates that the throughput for each flow varies during the test period, with peaks and troughs indicating periods of high and low network activity.
- **Per-packet one-way delay (ms)**: The per-packet one-way delay is displayed for each flow. The graph shows a significant variation in delay, with some flows experiencing delays up to 90 ms.
Run 3: Statistics of TCP BBR

Start at: 2018-06-20 22:38:29
End at: 2018-06-20 22:38:59
Local clock offset: 0.266 ms
Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2018-06-21 02:03:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 412.43 Mbit/s
  95th percentile per-packet one-way delay: 69.733 ms
  Loss rate: 0.37%
-- Flow 1:
  Average throughput: 212.72 Mbit/s
  95th percentile per-packet one-way delay: 68.582 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 202.40 Mbit/s
  95th percentile per-packet one-way delay: 70.081 ms
  Loss rate: 0.57%
-- Flow 3:
  Average throughput: 197.96 Mbit/s
  95th percentile per-packet one-way delay: 70.854 ms
  Loss rate: 1.15%
Run 3: Report of TCP BBR — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows, with legends indicating the mean throughput and 95th percentile delay for each flow.]
Run 4: Statistics of TCP BBR

Start at: 2018-06-20 23:01:18
End at: 2018-06-20 23:01:48
Local clock offset: −0.148 ms
Remote clock offset: 1.388 ms

# Below is generated by plot.py at 2018-06-21 02:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.36 Mbit/s
95th percentile per-packet one-way delay: 68.817 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 212.30 Mbit/s
95th percentile per-packet one-way delay: 66.991 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 203.58 Mbit/s
95th percentile per-packet one-way delay: 69.010 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 198.93 Mbit/s
95th percentile per-packet one-way delay: 70.812 ms
Loss rate: 1.33%
Run 4: Report of TCP BBR — Data Link
Run 5: Statistics of TCP BBR

End at: 2018-06-20 23:24:41
Local clock offset: -0.033 ms
Remote clock offset: 0.415 ms

# Below is generated by plot.py at 2018-06-21 02:03:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 413.53 Mbit/s
  95th percentile per-packet one-way delay: 72.338 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 214.12 Mbit/s
  95th percentile per-packet one-way delay: 69.967 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 205.51 Mbit/s
  95th percentile per-packet one-way delay: 72.789 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 190.41 Mbit/s
  95th percentile per-packet one-way delay: 79.692 ms
  Loss rate: 1.28%
Run 5: Report of TCP BBR — Data Link

![Graphs showing network performance metrics.](image-url)

- **Throughput (Mbps)**: Different lines represent different flows, with labels indicating mean throughput.
- **Per-packet round-trip delay (ms)**: Similar lines with labels indicating 95th percentile delays.

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Run 6: Statistics of TCP BBR

End at: 2018-06-20 23:47:26
Local clock offset: -0.048 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-06-21 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.14 Mbit/s
95th percentile per-packet one-way delay: 69.666 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 216.80 Mbit/s
95th percentile per-packet one-way delay: 68.096 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 206.22 Mbit/s
95th percentile per-packet one-way delay: 69.951 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 203.67 Mbit/s
95th percentile per-packet one-way delay: 71.762 ms
Loss rate: 1.19%
Run 6: Report of TCP BBR — Data Link

![Graph showing throughput and per-packet one-way delay](image-url)
Run 7: Statistics of TCP BBR

Start at: 2018-06-21 00:10:01
End at: 2018-06-21 00:10:31
Local clock offset: -0.025 ms
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-06-21 02:03:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 408.22 Mbit/s
95th percentile per-packet one-way delay: 69.591 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 209.32 Mbit/s
95th percentile per-packet one-way delay: 67.921 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 207.24 Mbit/s
95th percentile per-packet one-way delay: 68.991 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 185.16 Mbit/s
95th percentile per-packet one-way delay: 71.814 ms
Loss rate: 1.22%
Run 7: Report of TCP BBR — Data Link

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

Legend:
- Flow 1 ingress (mean 209.42 Mbit/s)
- Flow 1 egress (mean 209.32 Mbit/s)
- Flow 2 ingress (mean 207.38 Mbit/s)
- Flow 2 egress (mean 207.24 Mbit/s)
- Flow 3 ingress (mean 185.46 Mbit/s)
- Flow 3 egress (mean 185.16 Mbit/s)
Run 8: Statistics of TCP BBR

Start at: 2018-06-21 00:33:29
End at: 2018-06-21 00:33:59
Local clock offset: -0.016 ms
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2018-06-21 02:03:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 405.33 Mbit/s
  95th percentile per-packet one-way delay: 71.941 ms
  Loss rate: 0.61%
-- Flow 1:
  Average throughput: 205.19 Mbit/s
  95th percentile per-packet one-way delay: 69.585 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 204.75 Mbit/s
  95th percentile per-packet one-way delay: 70.623 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 193.75 Mbit/s
  95th percentile per-packet one-way delay: 74.843 ms
  Loss rate: 1.28%
Run 8: Report of TCP BBR — Data Link

![Graph showing network performance metrics over time.](image-url)

**Graph Description:**
- The graph illustrates the throughput (Mbps) and per-packet one-way delay (ms) for three data flows.
- **Throughput Graph:**
  - **Flow 1 ingress (mean 205.26 Mbps):** Blue dashed line.
  - **Flow 1 egress (mean 205.19 Mbps):** Blue solid line.
  - **Flow 2 ingress (mean 204.97 Mbps):** Green dashed line.
  - **Flow 2 egress (mean 204.75 Mbps):** Green solid line.
  - **Flow 3 ingress (mean 194.39 Mbps):** Red dashed line.
  - **Flow 3 egress (mean 193.75 Mbps):** Red solid line.
- **Per-packet one-way delay (ms) Graph:**
  - **Flow 1 (95th percentile 69.58 ms):** Blue dashed line.
  - **Flow 2 (95th percentile 70.62 ms):** Green dashed line.
  - **Flow 3 (95th percentile 74.84 ms):** Red dashed line.

**Graph Analysis:**
- The throughput for Flow 1 and Flow 2 is consistently higher compared to Flow 3.
- The per-packet one-way delay for Flow 3 is higher than for Flows 1 and 2.

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Run 9: Statistics of TCP BBR

Start at: 2018-06-21 00:56:25
End at: 2018-06-21 00:56:55
Local clock offset: -0.042 ms
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2018-06-21 02:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.24 Mbit/s
95th percentile per-packet one-way delay: 78.557 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 207.22 Mbit/s
95th percentile per-packet one-way delay: 76.976 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 199.89 Mbit/s
95th percentile per-packet one-way delay: 78.742 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 188.49 Mbit/s
95th percentile per-packet one-way delay: 81.168 ms
Loss rate: 1.30%
Run 9: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 207.20 Mbit/s)
- Flow 1 egress (mean 207.22 Mbit/s)
- Flow 2 ingress (mean 199.91 Mbit/s)
- Flow 2 egress (mean 199.99 Mbit/s)
- Flow 3 ingress (mean 189.02 Mbit/s)
- Flow 3 egress (mean 188.49 Mbit/s)
Run 10: Statistics of TCP BBR

Start at: 2018-06-21 01:19:38
End at: 2018-06-21 01:20:08
Local clock offset: 0.054 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2018-06-21 02:09:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.22 Mbit/s
95th percentile per-packet one-way delay: 81.027 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 200.77 Mbit/s
95th percentile per-packet one-way delay: 79.732 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 199.25 Mbit/s
95th percentile per-packet one-way delay: 79.600 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 179.43 Mbit/s
95th percentile per-packet one-way delay: 83.293 ms
Loss rate: 1.45%
Run 10: Report of TCP BBR — Data Link

![Graph of network traffic and packet delay](image)

- Flow 1 ingress (mean 200.96 Mbit/s)
- Flow 1 egress (mean 200.77 Mbit/s)
- Flow 2 ingress (mean 199.47 Mbit/s)
- Flow 2 egress (mean 199.25 Mbit/s)
- Flow 3 ingress (mean 180.25 Mbit/s)
- Flow 3 egress (mean 179.43 Mbit/s)
Run 1: Statistics of Copa

Start at: 2018-06-20 22:05:13
End at: 2018-06-20 22:05:43
Local clock offset: 0.072 ms
Remote clock offset: -0.981 ms

# Below is generated by plot.py at 2018-06-21 02:09:56
# Datalink statistics
-- Total of 3 flows:
  95th percentile per-packet one-way delay: 57.465 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 141.71 Mbit/s
  95th percentile per-packet one-way delay: 56.546 ms
  Loss rate: 0.14%
-- Flow 2:
  Average throughput: 58.69 Mbit/s
  95th percentile per-packet one-way delay: 56.582 ms
  Loss rate: 0.95%
-- Flow 3:
  Average throughput: 49.06 Mbit/s
  95th percentile per-packet one-way delay: 70.223 ms
  Loss rate: 2.41%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

End at: 2018-06-20 22:28:45
Local clock offset: -0.157 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-06-21 02:12:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.88 Mbit/s
95th percentile per-packet one-way delay: 62.190 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 62.21 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 320.23 Mbit/s
95th percentile per-packet one-way delay: 63.094 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 35.71 Mbit/s
95th percentile per-packet one-way delay: 54.005 ms
Loss rate: 0.36%
Run 2: Report of Copa — Data Link
Run 3: Statistics of Copa

Local clock offset: 0.177 ms
Remote clock offset: 0.394 ms

# Below is generated by plot.py at 2018-06-21 02:12:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.55 Mbit/s
95th percentile per-packet one-way delay: 56.559 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 99.19 Mbit/s
95th percentile per-packet one-way delay: 57.610 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 53.855 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 86.65 Mbit/s
95th percentile per-packet one-way delay: 60.045 ms
Loss rate: 1.77%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-20 23:14:06
End at: 2018-06-20 23:14:36
Local clock offset: 0.132 ms
Remote clock offset: 0.519 ms

# Below is generated by plot.py at 2018-06-21 02:12:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.14 Mbit/s
95th percentile per-packet one-way delay: 59.569 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 51.34 Mbit/s
95th percentile per-packet one-way delay: 53.828 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 195.57 Mbit/s
95th percentile per-packet one-way delay: 61.687 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 41.62 Mbit/s
95th percentile per-packet one-way delay: 53.884 ms
Loss rate: 1.56%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-06-20 23:36:56
End at: 2018-06-20 23:37:26
Local clock offset: -0.082 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-06-21 02:12:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 212.84 Mbit/s
  95th percentile per-packet one-way delay: 57.587 ms
  Loss rate: 0.40%
-- Flow 1:
  Average throughput: 144.00 Mbit/s
  95th percentile per-packet one-way delay: 55.534 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 66.76 Mbit/s
  95th percentile per-packet one-way delay: 60.510 ms
  Loss rate: 1.02%
-- Flow 3:
  Average throughput: 106.21 Mbit/s
  95th percentile per-packet one-way delay: 66.030 ms
  Loss rate: 0.00%
Run 5: Report of Copa — Data Link
Run 6: Statistics of Copa

Start at: 2018-06-20 23:59:43
End at: 2018-06-21 00:00:13
Local clock offset: -0.267 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-06-21 02:12:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.56 Mbit/s
95th percentile per-packet one-way delay: 61.105 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 173.65 Mbit/s
95th percentile per-packet one-way delay: 63.112 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 58.71 Mbit/s
95th percentile per-packet one-way delay: 53.567 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 53.512 ms
Loss rate: 1.23%
Run 6: Report of Copa — Data Link

![Graph showing network performance metrics over time. The top graph illustrates throughput in Mbit/s over time, with different flow types indicated by different colors and line styles. The bottom graph shows per-packet one-way delay in ms over time, with flow types distinguished by symbols.]

- **Flow 1** (ingress: mean 173.64 Mbit/s, egress: mean 173.65 Mbit/s)
- **Flow 2** (ingress: mean 58.93 Mbit/s, egress: mean 58.71 Mbit/s)
- **Flow 3** (ingress: mean 51.12 Mbit/s, egress: mean 51.04 Mbit/s)
Run 7: Statistics of Copa

Start at: 2018-06-21 00:23:02
End at: 2018-06-21 00:23:32
Local clock offset: 0.122 ms
Remote clock offset: -0.37 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.45 Mbit/s
95th percentile per-packet one-way delay: 57.374 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 229.29 Mbit/s
95th percentile per-packet one-way delay: 56.553 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 36.57 Mbit/s
95th percentile per-packet one-way delay: 53.905 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 59.980 ms
Loss rate: 1.47%
Run 7: Report of Copa — Data Link

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**Throughput (Mb/s)**

- **Flow 1 ingress (mean 228.81 Mb/s)**
- **Flow 1 egress (mean 229.29 Mb/s)**
- **Flow 2 ingress (mean 36.73 Mb/s)**
- **Flow 2 egress (mean 36.57 Mb/s)**
- **Flow 3 ingress (mean 93.69 Mb/s)**
- **Flow 3 egress (mean 93.53 Mb/s)**

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

- **Flow 1 (95th percentile 56.55 ms)**
- **Flow 2 (95th percentile 53.91 ms)**
- **Flow 3 (95th percentile 59.98 ms)**
Run 8: Statistics of Copa

Start at: 2018-06-21 00:46:16
End at: 2018-06-21 00:46:46
Local clock offset: 0.266 ms
Remote clock offset: -1.705 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.11 Mbit/s
95th percentile per-packet one-way delay: 67.733 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 120.45 Mbit/s
95th percentile per-packet one-way delay: 72.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 136.41 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 45.40 Mbit/s
95th percentile per-packet one-way delay: 55.328 ms
Loss rate: 1.14%
Run 8: Report of Copa — Data Link
Run 9: Statistics of Copa

Start at: 2018-06-21 01:09:25
End at: 2018-06-21 01:09:55
Local clock offset: -0.063 ms
Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.89 Mbit/s
95th percentile per-packet one-way delay: 61.540 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 66.389 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 163.26 Mbit/s
95th percentile per-packet one-way delay: 56.840 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 62.65 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 1.79%
Run 9: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 94.91 Mbit/s)
- **Flow 1 egress** (mean 94.75 Mbit/s)
- **Flow 2 ingress** (mean 162.70 Mbit/s)
- **Flow 2 egress** (mean 163.26 Mbit/s)
- **Flow 3 ingress** (mean 63.10 Mbit/s)
- **Flow 3 egress** (mean 62.65 Mbit/s)
Run 10: Statistics of Copa

Start at: 2018-06-21 01:32:31
End at: 2018-06-21 01:33:01
Local clock offset: 0.106 ms
Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 224.55 Mbit/s
95th percentile per-packet one-way delay: 58.196 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 139.91 Mbit/s
95th percentile per-packet one-way delay: 56.408 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 50.47 Mbit/s
95th percentile per-packet one-way delay: 53.853 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 154.79 Mbit/s
95th percentile per-packet one-way delay: 65.799 ms
Loss rate: 1.84%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-06-20 21:58:38
End at: 2018-06-20 21:59:08
Local clock offset: -0.007 ms
Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.64 Mbit/s
95th percentile per-packet one-way delay: 64.459 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 139.67 Mbit/s
95th percentile per-packet one-way delay: 63.910 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 220.25 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 205.41 Mbit/s
95th percentile per-packet one-way delay: 65.023 ms
Loss rate: 0.65%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Local clock offset: 0.014 ms
Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 283.35 Mbit/s
  95th percentile per-packet one-way delay: 60.583 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 214.53 Mbit/s
  95th percentile per-packet one-way delay: 60.659 ms
  Loss rate: 0.22%
-- Flow 2:
  Average throughput: 50.02 Mbit/s
  95th percentile per-packet one-way delay: 60.452 ms
  Loss rate: 2.23%
-- Flow 3:
  Average throughput: 108.42 Mbit/s
  95th percentile per-packet one-way delay: 59.269 ms
  Loss rate: 1.19%
Run 2: Report of TCP Cubic — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 214.23 Mbps)
- Flow 1 egress (mean 214.53 Mbps)
- Flow 2 ingress (mean 50.91 Mbps)
- Flow 2 egress (mean 50.02 Mbps)
- Flow 3 ingress (mean 106.86 Mbps)
- Flow 3 egress (mean 108.42 Mbps)

**Packet Delay (ms):**
- Flow 1 (95th percentile 60.66 ms)
- Flow 2 (95th percentile 60.45 ms)
- Flow 3 (95th percentile 59.27 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 22:44:43
End at: 2018-06-20 22:45:13
Local clock offset: 0.077 ms
Remote clock offset: 1.543 ms

# Below is generated by plot.py at 2018-06-21 02:17:21
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 381.95 Mbit/s
  95th percentile per-packet one-way delay: 60.799 ms
  Loss rate: 0.35%
-- Flow 1:
  Average throughput: 189.85 Mbit/s
  95th percentile per-packet one-way delay: 61.713 ms
  Loss rate: 0.28%
-- Flow 2:
  Average throughput: 199.00 Mbit/s
  95th percentile per-packet one-way delay: 59.767 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 181.85 Mbit/s
  95th percentile per-packet one-way delay: 57.906 ms
  Loss rate: 0.78%
Run 3: Report of TCP Cubic — Data Link

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

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

Legend:
- Flow 1 ingress (mean 189.71 Mbps) — Flow 1 egress (mean 189.85 Mbps)
- Flow 2 ingress (mean 198.42 Mbps) — Flow 2 egress (mean 199.00 Mbps)
- Flow 3 ingress (mean 181.37 Mbps) — Flow 3 egress (mean 181.15 Mbps)

Legend for packet delay:
- Flow 1 (95th percentile 61.71 ms)
- Flow 2 (95th percentile 59.77 ms)
- Flow 3 (95th percentile 57.91 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 23:07:29
End at: 2018-06-20 23:07:59
Local clock offset: 0.188 ms
Remote clock offset: 0.467 ms

# Below is generated by plot.py at 2018-06-21 02:18:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.58 Mbit/s
95th percentile per-packet one-way delay: 59.941 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 215.17 Mbit/s
95th percentile per-packet one-way delay: 60.271 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 109.82 Mbit/s
95th percentile per-packet one-way delay: 55.796 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 110.53 Mbit/s
95th percentile per-packet one-way delay: 58.957 ms
Loss rate: 1.17%
Run 4: Report of TCP Cubic — Data Link

![Graphs showing network performance metrics for different flows over time.]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 214.79 Mbps)
  - Flow 1 egress (mean 215.17 Mbps)
  - Flow 2 ingress (mean 110.32 Mbps)
  - Flow 2 egress (mean 109.82 Mbps)
  - Flow 3 ingress (mean 110.67 Mbps)
  - Flow 3 egress (mean 110.33 Mbps)

- **Per-packet one way delay (ms)**
  - Flow 1 (95th percentile 60.27 ms)
  - Flow 2 (95th percentile 55.80 ms)
  - Flow 3 (95th percentile 58.96 ms)
Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 23:30:26
End at: 2018-06-20 23:30:56
Local clock offset: -0.024 ms
Remote clock offset: 0.482 ms

# Below is generated by plot.py at 2018-06-21 02:18:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 314.53 Mbit/s
95th percentile per-packet one-way delay: 63.166 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 166.96 Mbit/s
95th percentile per-packet one-way delay: 61.003 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 219.49 Mbit/s
95th percentile per-packet one-way delay: 64.654 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 63.092 ms
Loss rate: 3.86%
Run 5: Report of TCP Cubic — Data Link

Throughput (Mbps)

Time (s)

Per packet one way delay (ms)

Flow 1 ingress (mean 167.26 Mbps)
Flow 1 egress (mean 166.96 Mbps)
Flow 2 ingress (mean 219.72 Mbps)
Flow 2 egress (mean 219.49 Mbps)
Flow 3 ingress (mean 5.11 Mbps)
Flow 3 egress (mean 4.96 Mbps)

Flow 1 (95th percentile 61.00 ms)
Flow 2 (95th percentile 64.65 ms)
Flow 3 (95th percentile 61.09 ms)
Run 6: Statistics of TCP Cubic

End at: 2018-06-20 23:53:43
Local clock offset: -0.019 ms
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2018-06-21 02:19:48
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 285.24 Mbit/s
  95th percentile per-packet one-way delay: 61.643 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 220.19 Mbit/s
  95th percentile per-packet one-way delay: 61.914 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 95.36 Mbit/s
  95th percentile per-packet one-way delay: 60.537 ms
  Loss rate: 0.82%
-- Flow 3:
  Average throughput: 4.93 Mbit/s
  95th percentile per-packet one-way delay: 60.236 ms
  Loss rate: 4.00%
Run 6: Report of TCP Cubic — Data Link

![Graph showing network performance metrics over time](image-url)

**Throughput (Mbps):**
- Flow 1 ingress (mean 220.12 Mbps)
- Flow 1 egress (mean 220.19 Mbps)
- Flow 2 ingress (mean 95.56 Mbps)
- Flow 2 egress (mean 95.36 Mbps)
- Flow 3 ingress (mean 5.98 Mbps)
- Flow 3 egress (mean 4.93 Mbps)

**Per packet one way delay (ms):**
- Flow 1 (95th percentile 61.91 ms)
- Flow 2 (95th percentile 60.54 ms)
- Flow 3 (95th percentile 60.24 ms)
Run 7: Statistics of TCP Cubic

Start at: 2018-06-21 00:16:16
End at: 2018-06-21 00:16:46
Local clock offset: 0.058 ms
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2018-06-21 02:22:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.11 Mbit/s
95th percentile per-packet one-way delay: 91.007 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 197.95 Mbit/s
95th percentile per-packet one-way delay: 91.142 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 185.26 Mbit/s
95th percentile per-packet one-way delay: 90.625 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 188.01 Mbit/s
95th percentile per-packet one-way delay: 91.326 ms
Loss rate: 1.29%
Run 7: Report of TCP Cubic — Data Link
Run 8: Statistics of TCP Cubic

Start at: 2018-06-21 00:39:40
End at: 2018-06-21 00:40:10
Local clock offset: 0.045 ms
Remote clock offset: 0.651 ms

# Below is generated by plot.py at 2018-06-21 02:22:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.64 Mbit/s
95th percentile per-packet one-way delay: 59.199 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 210.88 Mbit/s
95th percentile per-packet one-way delay: 59.255 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 58.776 ms
Loss rate: 2.30%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 56.414 ms
Loss rate: 4.54%
Run 8: Report of TCP Cubic — Data Link
Run 9: Statistics of TCP Cubic

Start at: 2018-06-21 01:02:42
End at: 2018-06-21 01:03:12
Local clock offset: 0.103 ms
Remote clock offset: 1.197 ms

# Below is generated by plot.py at 2018-06-21 02:23:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.77 Mbit/s
95th percentile per-packet one-way delay: 65.903 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 221.01 Mbit/s
95th percentile per-packet one-way delay: 65.271 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 217.75 Mbit/s
95th percentile per-packet one-way delay: 64.776 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 99.99 Mbit/s
95th percentile per-packet one-way delay: 67.275 ms
Loss rate: 1.21%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-06-21 01:25:53
End at: 2018-06-21 01:26:23
Local clock offset: -0.029 ms
Remote clock offset: -0.238 ms

# Below is generated by plot.py at 2018-06-21 02:23:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 305.14 Mbit/s
  95th percentile per-packet one-way delay: 61.220 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 159.00 Mbit/s
  95th percentile per-packet one-way delay: 61.582 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 217.45 Mbit/s
  95th percentile per-packet one-way delay: 60.616 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 4.77 Mbit/s
  95th percentile per-packet one-way delay: 58.604 ms
  Loss rate: 4.23%
Run 10: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 159.34 Mbit/s)
- Flow 1 egress (mean 159.00 Mbit/s)
- Flow 2 ingress (mean 217.57 Mbit/s)
- Flow 2 egress (mean 217.45 Mbit/s)
- Flow 3 ingress (mean 4.92 Mbit/s)
- Flow 3 egress (mean 4.77 Mbit/s)

Per-packet one-way delay [ms]
- Flow 1 (95th percentile 61.58 ms)
- Flow 2 (95th percentile 60.62 ms)
- Flow 3 (95th percentile 58.60 ms)
Run 1: Statistics of FillP

Start at: 2018-06-20 21:56:36
End at: 2018-06-20 21:57:06
Local clock offset: -0.275 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-06-21 02:44:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1326.45 Mbit/s
95th percentile per-packet one-way delay: 176.719 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 695.97 Mbit/s
95th percentile per-packet one-way delay: 177.782 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 713.07 Mbit/s
95th percentile per-packet one-way delay: 110.031 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 477.15 Mbit/s
95th percentile per-packet one-way delay: 202.739 ms
Loss rate: 2.59%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 Ingress (mean 710.13 Mbps)
  - Flow 1 Egress (mean 695.97 Mbps)
  - Flow 2 Ingress (mean 715.67 Mbps)
  - Flow 2 Egress (mean 713.07 Mbps)
  - Flow 3 Ingress (mean 484.63 Mbps)
  - Flow 3 Egress (mean 477.15 Mbps)

- **Packet delay (ms)**
  - Flow 1 (95th percentile 177.78 ms)
  - Flow 2 (95th percentile 110.03 ms)
  - Flow 3 (95th percentile 202.74 ms)
Run 2: Statistics of FillP

Start at: 2018-06-20 22:19:45
End at: 2018-06-20 22:20:15
Local clock offset: -0.031 ms
Remote clock offset: 0.452 ms

# Below is generated by plot.py at 2018-06-21 02:45:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1355.46 Mbit/s
95th percentile per-packet one-way delay: 121.660 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 730.94 Mbit/s
95th percentile per-packet one-way delay: 125.416 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 658.31 Mbit/s
95th percentile per-packet one-way delay: 123.430 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 571.02 Mbit/s
95th percentile per-packet one-way delay: 59.806 ms
Loss rate: 1.74%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

End at: 2018-06-20 22:43:09
Local clock offset: -0.002 ms
Remote clock offset: -1.158 ms

# Below is generated by plot.py at 2018-06-21 02:47:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1422.47 Mbit/s
95th percentile per-packet one-way delay: 119.493 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 773.23 Mbit/s
95th percentile per-packet one-way delay: 121.917 ms
Loss rate: 1.39%
-- Flow 2:
Average throughput: 713.29 Mbit/s
95th percentile per-packet one-way delay: 115.677 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 534.31 Mbit/s
95th percentile per-packet one-way delay: 105.693 ms
Loss rate: 1.15%
Run 3: Report of FillP — Data Link

![Throughput Graph]

![Delay Graph]
Run 4: Statistics of FillP

Start at: 2018-06-20 23:05:27
End at: 2018-06-20 23:05:57
Local clock offset: 0.104 ms
Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-06-21 02:47:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1330.65 Mbit/s
95th percentile per-packet one-way delay: 215.930 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 716.78 Mbit/s
95th percentile per-packet one-way delay: 219.314 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 665.92 Mbit/s
95th percentile per-packet one-way delay: 218.637 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 520.95 Mbit/s
95th percentile per-packet one-way delay: 162.115 ms
Loss rate: 5.19%
Run 4: Report of FillP — Data Link

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

Legend:
- Flow 1 ingress (mean 739.09 Mbit/s)
- Flow 1 egress (mean 716.78 Mbit/s)
- Flow 2 ingress (mean 690.20 Mbit/s)
- Flow 2 egress (mean 665.92 Mbit/s)
- Flow 3 ingress (mean 543.51 Mbit/s)
- Flow 3 egress (mean 520.95 Mbit/s)

![Graph showing the 95th percentile delay for different flows over time.]

Legend:
- Flow 1 (95th percentile 219.31 ms)
- Flow 2 (95th percentile 218.64 ms)
- Flow 3 (95th percentile 162.12 ms)
Run 5: Statistics of FillP

End at: 2018-06-20 23:28:52
Local clock offset: 0.011 ms
Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2018-06-21 02:49:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1414.13 Mbit/s
95th percentile per-packet one-way delay: 195.182 ms
Loss rate: 3.64%
-- Flow 1:
Average throughput: 737.85 Mbit/s
95th percentile per-packet one-way delay: 208.259 ms
Loss rate: 3.44%
-- Flow 2:
Average throughput: 720.89 Mbit/s
95th percentile per-packet one-way delay: 141.736 ms
Loss rate: 2.56%
-- Flow 3:
Average throughput: 599.41 Mbit/s
95th percentile per-packet one-way delay: 151.968 ms
Loss rate: 6.90%
Run 5: Report of FillP — Data Link

![Graph showing throughput over time for different flows]

- Flow 1 Ingress (mean 761.38 Mbit/s)
- Flow 1 Egress (mean 737.85 Mbit/s)
- Flow 2 Ingress (mean 736.06 Mbit/s)
- Flow 2 Egress (mean 720.89 Mbit/s)
- Flow 3 Ingress (mean 636.89 Mbit/s)
- Flow 3 Egress (mean 599.41 Mbit/s)

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

- Flow 1 (95th percentile 208.26 ms)
- Flow 2 (95th percentile 141.74 ms)
- Flow 3 (95th percentile 151.97 ms)
Run 6: Statistics of FillP

Start at: 2018-06-20 23:51:07
End at: 2018-06-20 23:51:37
Local clock offset: -0.224 ms
Remote clock offset: -1.227 ms

# Below is generated by plot.py at 2018-06-21 02:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1455.11 Mbit/s
95th percentile per-packet one-way delay: 176.823 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 846.74 Mbit/s
95th percentile per-packet one-way delay: 144.142 ms
Loss rate: 1.38%
-- Flow 2:
Average throughput: 732.62 Mbit/s
95th percentile per-packet one-way delay: 180.117 ms
Loss rate: 2.19%
-- Flow 3:
Average throughput: 369.96 Mbit/s
95th percentile per-packet one-way delay: 195.783 ms
Loss rate: 3.33%
Run 6: Report of FillP — Data Link

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

**Throughput (Mbps):**
- **Flow 1 Ingress:** Mean 855.57 Mbps
- **Flow 1 Egress:** Mean 846.74 Mbps
- **Flow 2 Ingress:** Mean 745.07 Mbps
- **Flow 2 Egress:** Mean 732.62 Mbps
- **Flow 3 Ingress:** Mean 378.49 Mbps
- **Flow 3 Egress:** Mean 369.96 Mbps

**Packet Delay (ms):**
- **Flow 1 (95th percentile 144.14 ms)**
- **Flow 2 (95th percentile 180.12 ms)**
- **Flow 3 (95th percentile 195.78 ms)**

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Run 7: Statistics of FillP

Start at: 2018-06-21 00:14:11
End at: 2018-06-21 00:14:41
Local clock offset: -0.019 ms
Remote clock offset: -1.246 ms

# Below is generated by plot.py at 2018-06-21 02:52:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1403.96 Mbit/s
95th percentile per-packet one-way delay: 184.899 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 751.17 Mbit/s
95th percentile per-packet one-way delay: 184.795 ms
Loss rate: 2.67%
-- Flow 2:
Average throughput: 733.16 Mbit/s
95th percentile per-packet one-way delay: 134.892 ms
Loss rate: 4.34%
-- Flow 3:
Average throughput: 502.74 Mbit/s
95th percentile per-packet one-way delay: 204.669 ms
Loss rate: 0.80%
Run 8: Statistics of FillP

Start at: 2018-06-21 00:37:38
End at: 2018-06-21 00:38:08
Local clock offset: 0.26 ms
Remote clock offset: -0.79 ms

# Below is generated by plot.py at 2018-06-21 02:52:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1321.61 Mbit/s
  95th percentile per-packet one-way delay: 236.136 ms
  Loss rate: 4.76%
-- Flow 1:
  Average throughput: 757.37 Mbit/s
  95th percentile per-packet one-way delay: 242.566 ms
  Loss rate: 3.87%
-- Flow 2:
  Average throughput: 636.25 Mbit/s
  95th percentile per-packet one-way delay: 211.677 ms
  Loss rate: 6.14%
-- Flow 3:
  Average throughput: 430.07 Mbit/s
  95th percentile per-packet one-way delay: 237.497 ms
  Loss rate: 5.29%
Run 8: Report of FillP — Data Link

The figure shows two graphs. The top graph represents throughput (Mbps/s) over time (s) for different flows. The bottom graph shows packet delay (ms) over time (s) for different flows. The key to the graphs is provided at the bottom of each graph.
Run 9: Statistics of FillP

Start at: 2018-06-21 01:00:34
End at: 2018-06-21 01:01:04
Local clock offset: 0.192 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2018-06-21 03:16:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1509.89 Mbit/s
95th percentile per-packet one-way delay: 134.038 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 803.25 Mbit/s
95th percentile per-packet one-way delay: 128.006 ms
Loss rate: 2.26%
-- Flow 2:
Average throughput: 736.55 Mbit/s
95th percentile per-packet one-way delay: 136.662 ms
Loss rate: 5.28%
-- Flow 3:
Average throughput: 660.69 Mbit/s
95th percentile per-packet one-way delay: 135.412 ms
Loss rate: 5.67%
Run 9: Report of FillP — Data Link

![Graph 1: Throughput (Mbps/s) vs Time (s)]
- Flow 1 ingress (mean 818.90 Mbps/s)
- Flow 2 ingress (mean 773.39 Mbps/s)
- Flow 3 ingress (mean 692.73 Mbps/s)
- Flow 1 egress (mean 803.25 Mbps/s)
- Flow 2 egress (mean 736.55 Mbps/s)
- Flow 3 egress (mean 660.69 Mbps/s)

![Graph 2: One-way delay (ms) vs Time (s)]
- Flow 1 (95th percentile 128.01 ms)
- Flow 2 (95th percentile 136.66 ms)
- Flow 3 (95th percentile 135.41 ms)
Run 10: Statistics of FillP

Start at: 2018-06-21 01:23:46
End at: 2018-06-21 01:24:16
Local clock offset: 0.069 ms
Remote clock offset: -1.327 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1471.44 Mbit/s
  95th percentile per-packet one-way delay: 154.896 ms
  Loss rate: 5.54%
-- Flow 1:
  Average throughput: 834.00 Mbit/s
  95th percentile per-packet one-way delay: 140.880 ms
  Loss rate: 2.41%
-- Flow 2:
  Average throughput: 584.18 Mbit/s
  95th percentile per-packet one-way delay: 182.499 ms
  Loss rate: 13.65%
-- Flow 3:
  Average throughput: 766.27 Mbit/s
  95th percentile per-packet one-way delay: 137.286 ms
  Loss rate: 1.68%
Run 10: Report of FillIP — Data Link

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

- Flow 1 Ingress (mean 851.63 Mb/s)
- Flow 1 Egress (mean 834.00 Mb/s)
- Flow 2 Ingress (mean 676.89 Mb/s)
- Flow 2 Egress (mean 584.18 Mb/s)
- Flow 3 Ingress (mean 771.23 Mb/s)
- Flow 3 Egress (mean 766.27 Mb/s)

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

- Flow 1 (95th percentile 140.88 ms)
- Flow 2 (95th percentile 182.50 ms)
- Flow 3 (95th percentile 137.29 ms)
Run 1: Statistics of Indigo

Start at: 2018-06-20 22:11:43
Local clock offset: -0.003 ms
Remote clock offset: -1.193 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.77 Mbit/s
95th percentile per-packet one-way delay: 58.616 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 218.92 Mbit/s
95th percentile per-packet one-way delay: 58.069 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 189.07 Mbit/s
95th percentile per-packet one-way delay: 58.687 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 162.81 Mbit/s
95th percentile per-packet one-way delay: 60.221 ms
Loss rate: 1.22%
Run 1: Report of Indigo — Data Link
Run 2: Statistics of Indigo

Start at: 2018-06-20 22:34:36
End at: 2018-06-20 22:35:06
Local clock offset: 0.015 ms
Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 414.54 Mbit/s
  95th percentile per-packet one-way delay: 55.970 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 226.69 Mbit/s
  95th percentile per-packet one-way delay: 54.668 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 205.45 Mbit/s
  95th percentile per-packet one-way delay: 56.686 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 158.18 Mbit/s
  95th percentile per-packet one-way delay: 58.514 ms
  Loss rate: 1.19%
Run 2: Report of Indigo — Data Link

**Graph 1:**
- **Throughput (Mbps):**
  - Flow 1 ingress (mean 226.62 Mbps)
  - Flow 1 egress (mean 226.69 Mbps)
  - Flow 2 ingress (mean 205.45 Mbps)
  - Flow 2 egress (mean 205.45 Mbps)
  - Flow 3 ingress (mean 158.39 Mbps)
  - Flow 3 egress (mean 158.18 Mbps)

**Graph 2:**
- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 54.67 ms)
  - Flow 2 (95th percentile 56.69 ms)
  - Flow 3 (95th percentile 58.51 ms)
Run 3: Statistics of Indigo

Local clock offset: 0.213 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 394.15 Mbit/s
  95th percentile per-packet one-way delay: 57.493 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 205.46 Mbit/s
  95th percentile per-packet one-way delay: 56.964 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 205.11 Mbit/s
  95th percentile per-packet one-way delay: 57.527 ms
  Loss rate: 0.50%
-- Flow 3:
  Average throughput: 162.98 Mbit/s
  95th percentile per-packet one-way delay: 58.905 ms
  Loss rate: 1.20%
Run 3: Report of Indigo — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 205.50 Mbps)
- Flow 1 egress (mean 205.46 Mbps)
- Flow 2 ingress (mean 205.09 Mbps)
- Flow 2 egress (mean 205.11 Mbps)
- Flow 3 ingress (mean 163.21 Mbps)
- Flow 3 egress (mean 162.08 Mbps)

**Per packet one way delay (ms):**
- Flow 1 (95th percentile 56.96 ms)
- Flow 2 (95th percentile 57.53 ms)
- Flow 3 (95th percentile 58.91 ms)
Run 4: Statistics of Indigo

End at: 2018-06-20 23:20:50
Local clock offset: 0.08 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.97 Mbit/s
95th percentile per-packet one-way delay: 77.049 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 200.40 Mbit/s
95th percentile per-packet one-way delay: 74.773 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 199.78 Mbit/s
95th percentile per-packet one-way delay: 76.777 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 178.12 Mbit/s
95th percentile per-packet one-way delay: 82.119 ms
Loss rate: 1.20%
Run 5: Statistics of Indigo

Start at: 2018-06-20 23:43:07
End at: 2018-06-20 23:43:37
Local clock offset: -0.079 ms
Remote clock offset: 1.391 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 355.79 Mbit/s
95th percentile per-packet one-way delay: 66.972 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 177.59 Mbit/s
95th percentile per-packet one-way delay: 64.501 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 190.26 Mbit/s
95th percentile per-packet one-way delay: 67.455 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 159.66 Mbit/s
95th percentile per-packet one-way delay: 69.917 ms
Loss rate: 1.15%
Run 5: Report of Indigo — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 177.61 Mbps)
- Flow 1 egress (mean 177.59 Mbps)
- Flow 2 ingress (mean 190.32 Mbps)
- Flow 2 egress (mean 190.26 Mbps)
- Flow 3 ingress (mean 159.82 Mbps)
- Flow 3 egress (mean 159.66 Mbps)

Graph 2: Per packet one way delay (ms)
- Flow 1 (95th percentile 64.50 ms)
- Flow 2 (95th percentile 67.45 ms)
- Flow 3 (95th percentile 69.92 ms)
Run 6: Statistics of Indigo

Start at: 2018-06-21 00:06:10
End at: 2018-06-21 00:06:40
Local clock offset: -0.048 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 401.14 Mbit/s
95th percentile per-packet one-way delay: 63.795 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 226.94 Mbit/s
95th percentile per-packet one-way delay: 58.586 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 162.22 Mbit/s
95th percentile per-packet one-way delay: 66.826 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 201.24 Mbit/s
95th percentile per-packet one-way delay: 71.547 ms
Loss rate: 1.17%
Run 6: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 226.84 Mbit/s)
- Flow 1 egress (mean 226.94 Mbit/s)
- Flow 2 ingress (mean 162.24 Mbit/s)
- Flow 2 egress (mean 162.22 Mbit/s)
- Flow 3 ingress (mean 201.52 Mbit/s)
- Flow 3 egress (mean 201.24 Mbit/s)

![Graph showing packet delay distribution.](image)

- Flow 1 (95th percentile 58.59 ms)
- Flow 2 (95th percentile 66.83 ms)
- Flow 3 (95th percentile 71.55 ms)
Run 7: Statistics of Indigo

Start at: 2018-06-21 00:29:36
End at: 2018-06-21 00:30:06
Local clock offset: 0.05 ms
Remote clock offset: 0.86 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 424.30 Mbit/s
  95th percentile per-packet one-way delay: 71.512 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 227.67 Mbit/s
  95th percentile per-packet one-way delay: 56.035 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 215.10 Mbit/s
  95th percentile per-packet one-way delay: 72.066 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 165.85 Mbit/s
  95th percentile per-packet one-way delay: 78.778 ms
  Loss rate: 1.13%
Run 7: Report of Indigo — Data Link

**Throughput vs Time (Mb/s)**
- **Flow 1 ingress**: Mean 227.60 Mb/s
- **Flow 1 egress**: Mean 227.67 Mb/s
- **Flow 2 ingress**: Mean 215.11 Mb/s
- **Flow 2 egress**: Mean 215.10 Mb/s
- **Flow 3 ingress**: Mean 165.93 Mb/s
- **Flow 3 egress**: Mean 165.85 Mb/s

**Per-packet one-way delay (ms)**
- **Flow 1**: 95th percentile 56.03 ms
- **Flow 2**: 95th percentile 72.07 ms
- **Flow 3**: 95th percentile 78.78 ms
Run 8: Statistics of Indigo

Start at: 2018-06-21 00:52:32  
End at: 2018-06-21 00:53:02  
Local clock offset: 0.132 ms  
Remote clock offset: -0.321 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 434.05 Mbit/s
  95th percentile per-packet one-way delay: 55.276 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 251.19 Mbit/s
  95th percentile per-packet one-way delay: 54.862 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 190.92 Mbit/s
  95th percentile per-packet one-way delay: 55.269 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 172.25 Mbit/s
  95th percentile per-packet one-way delay: 56.065 ms
  Loss rate: 1.11%
Run 8: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 251.07 Mbit/s)
- Flow 1 egress (mean 251.19 Mbit/s)
- Flow 2 ingress (mean 191.02 Mbit/s)
- Flow 2 egress (mean 190.92 Mbit/s)
- Flow 3 ingress (mean 172.39 Mbit/s)
- Flow 3 egress (mean 172.25 Mbit/s)

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

- Flow 1 (95th percentile 54.86 ms)
- Flow 2 (95th percentile 55.27 ms)
- Flow 3 (95th percentile 56.06 ms)
Run 9: Statistics of Indigo

Start at: 2018-06-21 01:15:46
End at: 2018-06-21 01:16:16
Local clock offset: -0.097 ms
Remote clock offset: -0.186 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.69 Mbit/s
95th percentile per-packet one-way delay: 62.462 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 224.82 Mbit/s
95th percentile per-packet one-way delay: 61.996 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 218.89 Mbit/s
95th percentile per-packet one-way delay: 62.489 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 150.47 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 1.27%
Run 9: Report of Indigo — Data Link

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

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 224.80 Mbps)
Flow 1 egress (mean 224.82 Mbps)
Flow 2 ingress (mean 218.83 Mbps)
Flow 2 egress (mean 218.89 Mbps)
Flow 3 ingress (mean 150.85 Mbps)
Flow 3 egress (mean 150.47 Mbps)

Packet loss (ms)

Time (s)

Flow 1 (95th percentile 62.00 ms)
Flow 2 (95th percentile 62.49 ms)
Flow 3 (95th percentile 63.59 ms)
Run 10: Statistics of Indigo

Start at: 2018-06-21 01:38:53
End at: 2018-06-21 01:39:23
Local clock offset: -0.068 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 412.04 Mbit/s
  95th percentile per-packet one-way delay: 60.174 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 219.09 Mbit/s
  95th percentile per-packet one-way delay: 59.151 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 219.14 Mbit/s
  95th percentile per-packet one-way delay: 60.284 ms
  Loss rate: 0.50%
-- Flow 3:
  Average throughput: 147.35 Mbit/s
  95th percentile per-packet one-way delay: 70.336 ms
  Loss rate: 1.28%
Run 10: Report of Indigo — Data Link

[Graph showing network performance metrics]
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 22:00:04
End at: 2018-06-20 22:00:34
Local clock offset: 0.099 ms
Remote clock offset: 0.405 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 54.766 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 54.887 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 54.535 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.11 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 2.07%
Run 1: Report of LEDBAT — Data Link
Run 2: Statistics of LEDEBAT

Local clock offset: 0.215 ms
Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.91 Mbit/s
  95th percentile per-packet one-way delay: 55.388 ms
  Loss rate: 0.90%
-- Flow 1:
  Average throughput: 32.27 Mbit/s
  95th percentile per-packet one-way delay: 55.498 ms
  Loss rate: 0.69%
-- Flow 2:
  Average throughput: 20.99 Mbit/s
  95th percentile per-packet one-way delay: 55.261 ms
  Loss rate: 1.06%
-- Flow 3:
  Average throughput: 11.33 Mbit/s
  95th percentile per-packet one-way delay: 54.460 ms
  Loss rate: 2.06%
Run 2: Report of LEDBAT — Data Link

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

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

Run 3: Statistics of LEDBAT

Start at: 2018-06-20 22:46:10
End at: 2018-06-20 22:46:40
Local clock offset: 0.104 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 55.238 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 55.318 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 21.51 Mbit/s
95th percentile per-packet one-way delay: 55.227 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 52.298 ms
Loss rate: 2.14%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

Start at: 2018-06-20 23:08:53
End at: 2018-06-20 23:09:23
Local clock offset: -0.106 ms
Remote clock offset: -0.996 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 53.409 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.92 Mbit/s
95th percentile per-packet one-way delay: 52.970 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 52.656 ms
Loss rate: 2.15%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

End at: 2018-06-20 23:32:20
Local clock offset: -0.03 ms
Remote clock offset: 1.776 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.74 Mbit/s
95th percentile per-packet one-way delay: 54.035 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 53.918 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 54.376 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 53.827 ms
Loss rate: 2.11%
Run 5: Report of LEDBAT — Data Link

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

- **Flow 1**: Ingress (mean 31.29 Mbit/s) and Egress (mean 31.19 Mbit/s)
- **Flow 2**: Ingress (mean 21.19 Mbit/s) and Egress (mean 21.08 Mbit/s)
- **Flow 3**: Ingress (mean 11.02 Mbit/s) and Egress (mean 10.90 Mbit/s)
Run 6: Statistics of LEDBAT

Start at: 2018-06-20 23:54:35
End at: 2018-06-20 23:55:05
Local clock offset: -0.002 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 49.98 Mbit/s
  95th percentile per-packet one-way delay: 54.431 ms
  Loss rate: 0.90%
-- Flow 1:
  Average throughput: 32.14 Mbit/s
  95th percentile per-packet one-way delay: 54.449 ms
  Loss rate: 0.70%
-- Flow 2:
  Average throughput: 21.81 Mbit/s
  95th percentile per-packet one-way delay: 54.292 ms
  Loss rate: 1.04%
-- Flow 3:
  Average throughput: 10.20 Mbit/s
  95th percentile per-packet one-way delay: 54.591 ms
  Loss rate: 2.16%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEDBAT

Start at: 2018-06-21 00:17:44
End at: 2018-06-21 00:18:14
Local clock offset: -0.009 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.48 Mbit/s
95th percentile per-packet one-way delay: 54.265 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 54.433 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 21.63 Mbit/s
95th percentile per-packet one-way delay: 53.926 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 10.86 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 2.11%
Run 7: Report of LEDBAT — Data Link

![Graph of Throughput vs Time](image1)

- Flow 1 ingress (mean 32.70 Mbit/s)
- Flow 1 egress (mean 32.58 Mbit/s)
- Flow 2 ingress (mean 21.74 Mbit/s)
- Flow 2 egress (mean 21.63 Mbit/s)
- Flow 3 ingress (mean 10.98 Mbit/s)
- Flow 3 egress (mean 10.66 Mbit/s)

![Graph of Packet Loss Rate vs Time](image2)

- Flow 1 (95th percentile 54.43 ms)
- Flow 2 (95th percentile 53.93 ms)
- Flow 3 (95th percentile 51.13 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-06-21 00:41:01
End at: 2018-06-21 00:41:31
Local clock offset: 0.064 ms
Remote clock offset: -1.687 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.52 Mbit/s
95th percentile per-packet one-way delay: 53.391 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.09 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 22.06 Mbit/s
95th percentile per-packet one-way delay: 53.253 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 11.56 Mbit/s
95th percentile per-packet one-way delay: 52.439 ms
Loss rate: 2.04%
Run 8: Report of LEDBAT — Data Link

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

- **Flow 1 ingress (mean 33.20 Mbit/s)**
- **Flow 1 egress (mean 33.09 Mbit/s)**
- **Flow 2 ingress (mean 22.18 Mbit/s)**
- **Flow 2 egress (mean 22.06 Mbit/s)**
- **Flow 3 ingress (mean 11.67 Mbit/s)**
- **Flow 3 egress (mean 11.56 Mbit/s)**

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

- **Flow 1 (95th percentile 53.52 ms)**
- **Flow 2 (95th percentile 53.25 ms)**
- **Flow 3 (95th percentile 52.44 ms)**
Run 9: Statistics of LEDBAT

Start at: 2018-06-21 01:04:10
End at: 2018-06-21 01:04:40
Local clock offset: 0.241 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.79 Mbit/s
95th percentile per-packet one-way delay: 52.439 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 52.550 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 52.094 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 11.14 Mbit/s
95th percentile per-packet one-way delay: 52.402 ms
Loss rate: 2.08%
Run 9: Report of LEDBAT — Data Link

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

Start at: 2018-06-21 01:27:17
End at: 2018-06-21 01:27:47
Local clock offset: -0.263 ms
Remote clock offset: 0.063 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 54.737 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 32.81 Mbit/s
95th percentile per-packet one-way delay: 54.903 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 54.710 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 53.968 ms
Loss rate: 2.18%
Run 1: Statistics of PCC-Allegro

Local clock offset: 0.06 ms
Remote clock offset: -0.954 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 553.48 Mbit/s
95th percentile per-packet one-way delay: 149.158 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 447.01 Mbit/s
95th percentile per-packet one-way delay: 149.131 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 144.78 Mbit/s
95th percentile per-packet one-way delay: 149.072 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 32.40 Mbit/s
95th percentile per-packet one-way delay: 152.899 ms
Loss rate: 1.07%
Run 1: Report of PCC-Allegro — Data Link

[Graphs showing throughput and packet delay over time for different flows.]
Run 2: Statistics of PCC-Allegro

End at: 2018-06-20 22:18:47
Local clock offset: -0.105 ms
Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 557.22 Mbit/s
95th percentile per-packet one-way delay: 138.312 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 530.06 Mbit/s
95th percentile per-packet one-way delay: 138.124 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 36.63 Mbit/s
95th percentile per-packet one-way delay: 139.278 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 143.281 ms
Loss rate: 1.75%

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Run 2: Report of PCC-Allegro — Data Link

![Graph 1: Throughput vs. Time]
- Flow 1 ingress (mean 531.59 Mbit/s)
- Flow 1 egress (mean 530.06 Mbit/s)
- Flow 2 ingress (mean 36.79 Mbit/s)
- Flow 2 egress (mean 36.63 Mbit/s)
- Flow 3 ingress (mean 9.12 Mbit/s)
- Flow 3 egress (mean 9.06 Mbit/s)

![Graph 2: Per-packet one-way delay vs. Time]
- Flow 1 (95th percentile 138.12 ms)
- Flow 2 (95th percentile 139.28 ms)
- Flow 3 (95th percentile 143.28 ms)
Run 3: Statistics of PCC-Allegro

End at: 2018-06-20 22:41:41
Local clock offset: 0.155 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 532.25 Mbit/s
95th percentile per-packet one-way delay: 177.906 ms
Loss rate: 5.45%
-- Flow 1:
Average throughput: 453.40 Mbit/s
95th percentile per-packet one-way delay: 177.850 ms
Loss rate: 5.38%
-- Flow 2:
Average throughput: 117.81 Mbit/s
95th percentile per-packet one-way delay: 178.085 ms
Loss rate: 5.88%
-- Flow 3:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 178.699 ms
Loss rate: 5.57%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 477.53 Mb/s)
- Flow 1 egress (mean 453.40 Mb/s)
- Flow 2 ingress (mean 124.53 Mb/s)
- Flow 2 egress (mean 117.81 Mb/s)
- Flow 3 ingress (mean 2.21 Mb/s)
- Flow 3 egress (mean 2.11 Mb/s)
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 23:04:00
End at: 2018-06-20 23:04:30
Local clock offset: 0.097 ms
Remote clock offset: 1.714 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 526.42 Mbit/s
95th percentile per-packet one-way delay: 194.039 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 500.63 Mbit/s
95th percentile per-packet one-way delay: 194.200 ms
Loss rate: 1.68%
-- Flow 2:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 193.439 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 67.45 Mbit/s
95th percentile per-packet one-way delay: 117.189 ms
Loss rate: 1.72%
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-20 23:26:53
Local clock offset: -0.079 ms
Remote clock offset: -0.728 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.34 Mbit/s
95th percentile per-packet one-way delay: 170.928 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 538.76 Mbit/s
95th percentile per-packet one-way delay: 172.009 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 168.738 ms
Loss rate: 2.32%
-- Flow 3:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 165.324 ms
Loss rate: 3.45%
Run 5: Report of PCC-Allegro — Data Link

![Graph of Throughput and Delay](image-url)
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 23:49:40
End at: 2018-06-20 23:50:10
Local clock offset: 0.088 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-21 03:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.54 Mbit/s
95th percentile per-packet one-way delay: 176.812 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 487.23 Mbit/s
95th percentile per-packet one-way delay: 176.826 ms
Loss rate: 4.36%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 176.771 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 54.53 Mbit/s
95th percentile per-packet one-way delay: 176.545 ms
Loss rate: 9.56%
Run 6: Report of PCC-Allegro — Data Link

**Throughput (Mbps):**
- Flow 1 ingress (mean 507.65 Mbps)
- Flow 1 egress (mean 487.23 Mbps)
- Flow 2 ingress (mean 41.06 Mbps)
- Flow 2 egress (mean 38.70 Mbps)
- Flow 3 ingress (mean 59.72 Mbps)
- Flow 3 egress (mean 54.53 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 176.83 ms)
- Flow 2 (95th percentile 176.77 ms)
- Flow 3 (95th percentile 176.54 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-21 00:12:44
End at: 2018-06-21 00:13:14
Local clock offset: -0.174 ms
Remote clock offset: -0.244 ms

# Below is generated by plot.py at 2018-06-21 03:21:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 541.44 Mbit/s
95th percentile per-packet one-way delay: 200.341 ms
Loss rate: 5.94%
-- Flow 1:
Average throughput: 539.39 Mbit/s
95th percentile per-packet one-way delay: 200.345 ms
Loss rate: 5.94%
-- Flow 2:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 200.683 ms
Loss rate: 7.35%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 169.414 ms
Loss rate: 3.20%
Run 7: Report of PCC-Allegro — Data Link

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

- **Throughput (Mbps):** The graph shows the throughput in Mbps over time. The throughput varies significantly, with peaks and troughs indicating fluctuations in network performance.
- **Flow 1 Ingress (mean 571.39 Mbps):** This flow has the highest mean throughput among the flows shown.
- **Flow 1 Egress (mean 539.39 Mbps):** This flow has a slightly lower mean throughput compared to Flow 1 Ingress.
- **Flow 2 Ingress (mean 2.19 Mbps):** This flow has a much lower mean throughput than the other two.
- **Flow 2 Egress (mean 2.04 Mbps):** Similarly, this flow has a lower mean throughput.
- **Flow 3 Ingress (mean 2.18 Mbps):** This flow also has a lower mean throughput.
- **Flow 3 Egress (mean 2.13 Mbps):** This flow has the lowest mean throughput among the egress flows.

![Graph of per-packet one-way delay (ms).](image-url)

- **Per-packet one-way delay (ms):** The graph shows the per-packet one-way delay over time. The delay fluctuates significantly, with peaks indicating delays and troughs indicating lower delays.
- **Flow 1 (95th percentile 200.34 ms):** This flow has a high 95th percentile delay, indicating significant latency.
- **Flow 2 (95th percentile 200.68 ms):** This flow has a slightly higher 95th percentile delay than Flow 1.
- **Flow 3 (95th percentile 169.41 ms):** This flow has the lowest 95th percentile delay among the flows shown.
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-21 00:36:10
End at: 2018-06-21 00:36:40
Local clock offset: 0.212 ms
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-06-21 03:21:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 546.73 Mbit/s
  95th percentile per-packet one-way delay: 177.392 ms
  Loss rate: 1.33%
-- Flow 1:
  Average throughput: 485.31 Mbit/s
  95th percentile per-packet one-way delay: 177.477 ms
  Loss rate: 1.32%
-- Flow 2:
  Average throughput: 62.92 Mbit/s
  95th percentile per-packet one-way delay: 177.500 ms
  Loss rate: 1.33%
-- Flow 3:
  Average throughput: 60.04 Mbit/s
  95th percentile per-packet one-way delay: 125.365 ms
  Loss rate: 1.61%
Run 8: Report of PCC-Allegro — Data Link
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-21 00:59:07
End at: 2018-06-21 00:59:37
Local clock offset: -0.042 ms
Remote clock offset: -1.181 ms

# Below is generated by plot.py at 2018-06-21 03:21:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 533.56 Mbit/s
95th percentile per-packet one-way delay: 162.254 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 525.58 Mbit/s
95th percentile per-packet one-way delay: 162.325 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 155.927 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 78.585 ms
Loss rate: 2.29%
Run 9: Report of PCC-Allegro — Data Link

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

Legend:
- Flow 1 ingress (mean 528.06 Mbit/s)
- Flow 1 egress (mean 525.58 Mbit/s)
- Flow 2 ingress (mean 2.35 Mbit/s)
- Flow 2 egress (mean 2.33 Mbit/s)
- Flow 3 ingress (mean 19.95 Mbit/s)
- Flow 3 egress (mean 19.70 Mbit/s)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-21 01:22:19
End at: 2018-06-21 01:22:49
Local clock offset: -0.091 ms
Remote clock offset: -1.323 ms

# Below is generated by plot.py at 2018-06-21 03:21:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 536.35 Mbit/s
  95th percentile per-packet one-way delay: 178.891 ms
  Loss rate: 0.91%
-- Flow 1:
  Average throughput: 532.11 Mbit/s
  95th percentile per-packet one-way delay: 178.881 ms
  Loss rate: 0.91%
-- Flow 2:
  Average throughput: 4.49 Mbit/s
  95th percentile per-packet one-way delay: 178.989 ms
  Loss rate: 0.89%
-- Flow 3:
  Average throughput: 4.03 Mbit/s
  95th percentile per-packet one-way delay: 180.481 ms
  Loss rate: 1.51%
Run 10: Report of PCC-Allegro — Data Link

![Graph of throughput and packet delay over time for flows 1, 2, and 3.]

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

- Flow 1 ingress (mean 535.08 Mbit/s)
- Flow 1 egress (mean 532.11 Mbit/s)
- Flow 2 ingress (mean 4.51 Mbit/s)
- Flow 2 egress (mean 4.49 Mbit/s)
- Flow 3 ingress (mean 4.04 Mbit/s)
- Flow 3 egress (mean 4.03 Mbit/s)

Packet delay (ms) vs. Time (s)

- Flow 1 (95th percentile 178.88 ms)
- Flow 2 (95th percentile 178.99 ms)
- Flow 3 (95th percentile 180.48 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 22:10:06
End at: 2018-06-20 22:10:36
Local clock offset: 0.026 ms
Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2018-06-21 03:24:15
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 318.24 Mbit/s
  95th percentile per-packet one-way delay: 89.823 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 95.04 Mbit/s
  95th percentile per-packet one-way delay: 53.777 ms
  Loss rate: 0.20%
-- Flow 2:
  Average throughput: 242.70 Mbit/s
  95th percentile per-packet one-way delay: 107.825 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 189.74 Mbit/s
  95th percentile per-packet one-way delay: 58.474 ms
  Loss rate: 1.24%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Local clock offset: 0.004 ms
Remote clock offset: 0.474 ms

# Below is generated by plot.py at 2018-06-21 03:27:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 392.74 Mbit/s
95th percentile per-packet one-way delay: 206.948 ms
Loss rate: 2.38%
-- Flow 1:
Average throughput: 308.57 Mbit/s
95th percentile per-packet one-way delay: 208.759 ms
Loss rate: 2.84%
-- Flow 2:
Average throughput: 99.81 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 53.585 ms
Loss rate: 1.06%
Run 2: Report of PCC-Expr — Data Link
Run 3: Statistics of PCC-Expr

End at: 2018-06-20 22:56:18
Local clock offset: 0.12 ms
Remote clock offset: 0.426 ms

# Below is generated by plot.py at 2018-06-21 03:30:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 410.69 Mbit/s
95th percentile per-packet one-way delay: 232.889 ms
Loss rate: 5.71%
-- Flow 1:
Average throughput: 302.41 Mbit/s
95th percentile per-packet one-way delay: 254.636 ms
Loss rate: 6.78%
-- Flow 2:
Average throughput: 147.81 Mbit/s
95th percentile per-packet one-way delay: 176.672 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 79.929 ms
Loss rate: 2.50%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 23:18:36
End at: 2018-06-20 23:19:06
Local clock offset: -0.058 ms
Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2018-06-21 03:32:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 475.04 Mbit/s
95th percentile per-packet one-way delay: 206.771 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 374.83 Mbit/s
95th percentile per-packet one-way delay: 223.282 ms
Loss rate: 4.25%
-- Flow 2:
Average throughput: 102.76 Mbit/s
95th percentile per-packet one-way delay: 146.587 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 97.61 Mbit/s
95th percentile per-packet one-way delay: 56.736 ms
Loss rate: 2.05%
Run 4: Report of PCC-Expr — Data Link

![Graph showing data link performance metrics](image)

- **Flow 1 ingress** (mean 390.14 Mbit/s)
- **Flow 1 egress** (mean 374.83 Mbit/s)
- **Flow 2 ingress** (mean 103.01 Mbit/s)
- **Flow 2 egress** (mean 102.76 Mbit/s)
- **Flow 3 ingress** (mean 98.59 Mbit/s)
- **Flow 3 egress** (mean 97.61 Mbit/s)

![Graph showing packet delay](image)

- **Flow 1** (95th percentile 223.28 ms)
- **Flow 2** (95th percentile 146.59 ms)
- **Flow 3** (95th percentile 56.74 ms)
Run 5: Statistics of PCC-Expr

End at: 2018-06-20 23:42:05
Local clock offset: -0.234 ms
Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2018-06-21 03:32:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.99 Mbit/s
95th percentile per-packet one-way delay: 86.498 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 138.13 Mbit/s
95th percentile per-packet one-way delay: 54.351 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 177.59 Mbit/s
95th percentile per-packet one-way delay: 127.730 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 51.68 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 1.55%
Run 5: Report of PCC-Expr — Data Link
Run 6: Statistics of PCC-Expr

Start at: 2018-06-21 00:04:27
End at: 2018-06-21 00:04:57
Local clock offset: -0.077 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-21 03:34:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 401.00 Mbit/s
  95th percentile per-packet one-way delay: 179.073 ms
  Loss rate: 1.03%
-- Flow 1:
  Average throughput: 352.32 Mbit/s
  95th percentile per-packet one-way delay: 180.569 ms
  Loss rate: 0.79%
-- Flow 2:
  Average throughput: 40.64 Mbit/s
  95th percentile per-packet one-way delay: 128.448 ms
  Loss rate: 2.41%
-- Flow 3:
  Average throughput: 66.30 Mbit/s
  95th percentile per-packet one-way delay: 103.424 ms
  Loss rate: 3.09%
Run 6: Report of PCC-Expr — Data Link

![Graphs showing throughput and latency over time for different flows.](image-url)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-21 00:27:57
End at: 2018-06-21 00:28:27
Local clock offset: 0.036 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-21 03:37:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 444.45 Mbit/s
95th percentile per-packet one-way delay: 188.149 ms
Loss rate: 10.34%
-- Flow 1:
Average throughput: 283.26 Mbit/s
95th percentile per-packet one-way delay: 188.183 ms
Loss rate: 9.60%
-- Flow 2:
Average throughput: 241.29 Mbit/s
95th percentile per-packet one-way delay: 188.151 ms
Loss rate: 11.55%
-- Flow 3:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 181.343 ms
Loss rate: 19.91%
Run 7: Report of PCC-Expr — Data Link

[Graph showing throughput and per-packet one-way delay over time for different flows.]
Run 8: Statistics of PCC-Expr

Start at: 2018-06-21 00:50:57  
End at: 2018-06-21 00:51:27  
Local clock offset: 0.29 ms  
Remote clock offset: -1.257 ms

# Below is generated by plot.py at 2018-06-21 03:37:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.50 Mbit/s  
95th percentile per-packet one-way delay: 288.793 ms  
Loss rate: 17.26%  
-- Flow 1:  
Average throughput: 273.40 Mbit/s  
95th percentile per-packet one-way delay: 292.973 ms  
Loss rate: 19.90%  
-- Flow 2:  
Average throughput: 70.79 Mbit/s  
95th percentile per-packet one-way delay: 177.334 ms  
Loss rate: 1.83%  
-- Flow 3:  
Average throughput: 46.19 Mbit/s  
95th percentile per-packet one-way delay: 180.162 ms  
Loss rate: 7.23%
Run 8: Report of PCC-Expr — Data Link
Run 9: Statistics of PCC-Expr

Start at: 2018-06-21 01:14:01
End at: 2018-06-21 01:14:31
Local clock offset: -0.096 ms
Remote clock offset: -0.361 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 464.53 Mbit/s
  95th percentile per-packet one-way delay: 147.465 ms
  Loss rate: 2.08%
-- Flow 1:
  Average throughput: 294.92 Mbit/s
  95th percentile per-packet one-way delay: 117.185 ms
  Loss rate: 1.40%
-- Flow 2:
  Average throughput: 227.52 Mbit/s
  95th percentile per-packet one-way delay: 172.465 ms
  Loss rate: 3.18%
-- Flow 3:
  Average throughput: 56.46 Mbit/s
  95th percentile per-packet one-way delay: 172.489 ms
  Loss rate: 3.74%
Run 9: Report of PCC-Expr — Data Link

![Graph 1: Throughput vs Time](chart1.png)

- Flow 1 ingress (mean 298.10 Mbit/s)
- Flow 1 egress (mean 294.92 Mbit/s)
- Flow 2 ingress (mean 233.79 Mbit/s)
- Flow 2 egress (mean 227.52 Mbit/s)
- Flow 3 ingress (mean 58.08 Mbit/s)
- Flow 3 egress (mean 56.46 Mbit/s)

![Graph 2: Per-packet one way delay vs Time](chart2.png)

- Flow 1 (95th percentile 117.19 ms)
- Flow 2 (95th percentile 172.47 ms)
- Flow 3 (95th percentile 172.49 ms)

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Run 10: Statistics of PCC-Expr

Start at: 2018-06-21 01:37:23
End at: 2018-06-21 01:37:53
Local clock offset: -0.102 ms
Remote clock offset: 1.309 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 243.94 Mbit/s
  95th percentile per-packet one-way delay: 118.808 ms
  Loss rate: 0.92%
-- Flow 1:
  Average throughput: 102.73 Mbit/s
  95th percentile per-packet one-way delay: 52.551 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 165.72 Mbit/s
  95th percentile per-packet one-way delay: 147.907 ms
  Loss rate: 1.36%
-- Flow 3:
  Average throughput: 95.12 Mbit/s
  95th percentile per-packet one-way delay: 52.485 ms
  Loss rate: 1.09%
Run 10: Report of PCC-Expr — Data Link
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 21:53:54
End at: 2018-06-20 21:54:24
Local clock offset: -0.129 ms
Remote clock offset: 1.519 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 117.53 Mbit/s
  95th percentile per-packet one-way delay: 52.245 ms
  Loss rate: 0.83%
-- Flow 1:
  Average throughput: 73.70 Mbit/s
  95th percentile per-packet one-way delay: 52.187 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 55.62 Mbit/s
  95th percentile per-packet one-way delay: 52.277 ms
  Loss rate: 0.53%
-- Flow 3:
  Average throughput: 16.38 Mbit/s
  95th percentile per-packet one-way delay: 52.289 ms
  Loss rate: 8.38%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-20 22:17:03
End at: 2018-06-20 22:17:33
Local clock offset: 0.061 ms
Remote clock offset: 0.35 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.41 Mbit/s
95th percentile per-packet one-way delay: 53.812 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 65.36 Mbit/s
95th percentile per-packet one-way delay: 50.420 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 50.302 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 62.68 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.15%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

End at: 2018-06-20 22:40:27
Local clock offset: 0.122 ms
Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.14 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 68.99 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 36.61 Mbit/s
95th percentile per-packet one-way delay: 54.009 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 60.45 Mbit/s
95th percentile per-packet one-way delay: 53.922 ms
Loss rate: 0.72%
Run 3: Report of QUIC Cubic — Data Link

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

Flow 1 ingress (mean 69.02 Mbit/s) - Flow 1 egress (mean 68.99 Mbit/s)
Flow 2 ingress (mean 36.89 Mbit/s) - Flow 2 egress (mean 36.61 Mbit/s)
Flow 3 ingress (mean 60.54 Mbit/s) - Flow 3 egress (mean 60.45 Mbit/s)

Per-packet one-way delay (ms):
- Blue dots: Flow 1 (95th percentile 53.82 ms)
- Green dots: Flow 2 (95th percentile 54.01 ms)
- Red dots: Flow 3 (95th percentile 53.92 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 23:02:47
End at: 2018-06-20 23:03:17
Local clock offset: -0.099 ms
Remote clock offset: 1.701 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.99 Mbit/s
95th percentile per-packet one-way delay: 52.323 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 52.335 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 52.322 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 48.531 ms
Loss rate: 0.14%
Run 4: Report of QUIC Cubic — Data Link
Run 5: Statistics of QUIC Cubic

End at: 2018-06-20 23:26:09
Local clock offset: -0.189 ms
Remote clock offset: -0.859 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.29 Mbit/s
95th percentile per-packet one-way delay: 54.744 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 54.721 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 43.71 Mbit/s
95th percentile per-packet one-way delay: 54.749 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 54.768 ms
Loss rate: 0.15%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Local clock offset: -0.175 ms
Remote clock offset: 1.047 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.33 Mbit/s
95th percentile per-packet one-way delay: 52.559 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 52.574 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 45.83 Mbit/s
95th percentile per-packet one-way delay: 49.088 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 51.17 Mbit/s
95th percentile per-packet one-way delay: 49.274 ms
Loss rate: 1.52%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-21 00:11:29
End at: 2018-06-21 00:11:59
Local clock offset: 0.194 ms
Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 120.01 Mbit/s
95th percentile per-packet one-way delay: 53.953 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 69.16 Mbit/s
95th percentile per-packet one-way delay: 53.972 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 49.30 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 1.38%
Run 7: Report of QUIC Cubic — Data Link

[Graph showing throughput and packet loss over time for different flows]
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-21 00:34:57
End at: 2018-06-21 00:35:27
Local clock offset: 0.111 ms
Remote clock offset: -0.574 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 95.31 Mbit/s
  95th percentile per-packet one-way delay: 53.862 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 57.37 Mbit/s
  95th percentile per-packet one-way delay: 53.880 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 47.55 Mbit/s
  95th percentile per-packet one-way delay: 53.704 ms
  Loss rate: 0.81%
-- Flow 3:
  Average throughput: 19.46 Mbit/s
  95th percentile per-packet one-way delay: 53.668 ms
  Loss rate: 0.35%
Run 8: Report of QUIC Cubic — Data Link

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

Start at: 2018-06-21 00:57:53
End at: 2018-06-21 00:58:23
Local clock offset: -0.011 ms
Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 106.60 Mbit/s
  95th percentile per-packet one-way delay: 49.807 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 47.80 Mbit/s
  95th percentile per-packet one-way delay: 49.811 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 58.32 Mbit/s
  95th percentile per-packet one-way delay: 49.699 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 61.38 Mbit/s
  95th percentile per-packet one-way delay: 53.459 ms
  Loss rate: 0.61%
Run 9: Report of QUIC Cubic — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 47.86 Mbit/s)
Flow 1 egress (mean 47.80 Mbit/s)
Flow 2 ingress (mean 58.44 Mbit/s)
Flow 2 egress (mean 58.32 Mbit/s)
Flow 3 ingress (mean 61.11 Mbit/s)
Flow 3 egress (mean 61.36 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 49.81 ms)
Flow 2 (95th percentile 49.70 ms)
Flow 3 (95th percentile 53.46 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-21 01:21:05
End at: 2018-06-21 01:21:35
Local clock offset: 0.056 ms
Remote clock offset: -1.504 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.05 Mbit/s
95th percentile per-packet one-way delay: 55.355 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 73.81 Mbit/s
95th percentile per-packet one-way delay: 55.168 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.41 Mbit/s
95th percentile per-packet one-way delay: 55.414 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 19.43 Mbit/s
95th percentile per-packet one-way delay: 55.273 ms
Loss rate: 0.39%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Start at: 2018-06-20 22:02:46
End at: 2018-06-20 22:03:16
Local clock offset: 0.139 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 54.230 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.152 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 54.222 ms
  Loss rate: 0.42%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 54.271 ms
  Loss rate: 0.74%
Run 1: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 51.15 ms)
- Flow 2 (95th percentile 54.22 ms)
- Flow 3 (95th percentile 54.27 ms)
Run 2: Statistics of SCReAM

End at: 2018-06-20 22:26:21
Local clock offset: 0.032 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.177 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.155 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.198 ms
Loss rate: 1.08%
Run 2: Report of SCReAM — Data Link

![Throughput Graph]

![Delay Graph]

Flow 1 ing (mean 0.21 Mbit/s) — Flow 1 egress (mean 0.21 Mbit/s)
Flow 2 ing (mean 0.21 Mbit/s) — Flow 2 egress (mean 0.21 Mbit/s)
Flow 3 ing (mean 0.22 Mbit/s) — Flow 3 egress (mean 0.22 Mbit/s)

Flow 1 (95th percentile 54.17 ms) — Flow 2 (95th percentile 54.16 ms) — Flow 3 (95th percentile 54.20 ms)
Run 3: Statistics of SCReAM

Local clock offset: 0.092 ms
Remote clock offset: -0.965 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 55.169 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.739 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.208 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 55.004 ms
Loss rate: 1.10%
Run 4: Statistics of SCReAM

Start at: 2018-06-20 23:11:38
End at: 2018-06-20 23:12:08
Local clock offset: -0.122 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.652 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.075 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.091 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.701 ms
  Loss rate: 1.09%
Run 4: Report of SCReAM — Data Link

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

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

**Packet Error Rate (ms):**
- Flow 1 (95th percentile 50.08 ms)
- Flow 2 (95th percentile 50.09 ms)
- Flow 3 (95th percentile 51.70 ms)
Run 5: Statistics of SCReAM

Start at: 2018-06-20 23:34:29
End at: 2018-06-20 23:34:59
Local clock offset: 0.176 ms
Remote clock offset: 1.703 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 52.748 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.044 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 52.698 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.821 ms
Loss rate: 1.09%
Run 5: Report of SCReAM — Data Link

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

Graph 2: Per-packet one-way delay (ms)
- Flow 1 (95th percentile 49.04 ms)
- Flow 2 (95th percentile 52.70 ms)
- Flow 3 (95th percentile 52.82 ms)
Run 6: Statistics of SCReAM

Start at: 2018-06-20 23:57:19
End at: 2018-06-20 23:57:49
Local clock offset: -0.047 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.703 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.651 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.733 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 49.974 ms
  Loss rate: 1.09%
Run 6: Report of SCReAM — Data Link

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

- Flow 1 ingress (mean 0.21 Mbps)
- Flow 1 egress (mean 0.23 Mbps)
- Flow 2 ingress (mean 0.21 Mbps)
- Flow 2 egress (mean 0.23 Mbps)
- Flow 3 ingress (mean 0.22 Mbps)
- Flow 3 egress (mean 0.22 Mbps)

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

- Flow 1 (95th percentile 53.65 ms)
- Flow 2 (95th percentile 53.73 ms)
- Flow 3 (95th percentile 49.97 ms)
Run 7: Statistics of SCReAM

Start at: 2018-06-21 00:20:28
End at: 2018-06-21 00:20:58
Local clock offset: 0.141 ms
Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.239 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.353 ms
Loss rate: 1.09%
Run 7: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 50.24 ms)
- Flow 2 (95th percentile 53.94 ms)
- Flow 3 (95th percentile 50.35 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-21 00:43:44
End at: 2018-06-21 00:44:14
Local clock offset: 0.131 ms
Remote clock offset: -0.58 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 54.064 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 54.085 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.888 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.653 ms
  Loss rate: 1.09%
Run 9: Statistics of SCReAM

Start at: 2018-06-21 01:06:53
End at: 2018-06-21 01:07:23
Local clock offset: -0.057 ms
Remote clock offset: -1.342 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 55.096 ms
Loss rate: 0.52%

-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 0.26%

-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.123 ms
Loss rate: 0.61%

-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.918 ms
Loss rate: 1.10%
Run 9: Report of SCReAM — Data Link

Graph 1: Throughput (Mb/s) over time (s)
- Flow 1 ingress (mean 0.21 Mb/s)
- Flow 1 egress (mean 0.21 Mb/s)
- Flow 2 ingress (mean 0.21 Mb/s)
- Flow 2 egress (mean 0.21 Mb/s)
- Flow 3 ingress (mean 0.22 Mb/s)
- Flow 3 egress (mean 0.22 Mb/s)

Graph 2: Per packet round trip delay (ms) over time (s)
- Flow 1 (95th percentile 51.52 ms)
- Flow 2 (95th percentile 55.12 ms)
- Flow 3 (95th percentile 54.92 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-21 01:30:01
End at: 2018-06-21 01:30:31
Local clock offset: -0.04 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.786 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.801 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.426 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.721 ms
  Loss rate: 1.09%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Start at: 2018-06-20 21:50:07
End at: 2018-06-20 21:50:37
Local clock offset: -0.004 ms
Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.28 Mbit/s
95th percentile per-packet one-way delay: 54.470 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 54.521 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 54.441 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 54.421 ms
Loss rate: 1.15%
Run 1: Report of Sprout — Data Link

![Graph showing network data transmission over time.](image-url)

- **Throughput (Mbps)**
  - Y-axis: 0 to 10
  - X-axis: Time (s) from 0 to 30

- **Per packet one way delay (ms)**
  - Y-axis: 50 to 55
  - X-axis: Time (s) from 0 to 30

Legend:
- Flow 1 ingress (mean 7.37 Mbps)
- Flow 1 egress (mean 7.38 Mbps)
- Flow 2 ingress (mean 7.11 Mbps)
- Flow 2 egress (mean 7.10 Mbps)
- Flow 3 ingress (mean 6.68 Mbps)
- Flow 3 egress (mean 6.67 Mbps)

Flow 1 (95th percentile 54.52 ms)
Flow 2 (95th percentile 54.44 ms)
Flow 3 (95th percentile 54.42 ms)
Run 2: Statistics of Sprout

Local clock offset: -0.15 ms
Remote clock offset: 1.625 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 53.264 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 6.75 Mbit/s
95th percentile per-packet one-way delay: 53.243 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 53.387 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 53.132 ms
Loss rate: 1.95%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-06-20 22:36:11
End at: 2018-06-20 22:36:41
Local clock offset: 0.053 ms
Remote clock offset: 0.31 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 54.465 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 54.541 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 54.427 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 53.874 ms
Loss rate: 1.61%
Run 4: Statistics of Sprout

Start at: 2018-06-20 22:59:01
End at: 2018-06-20 22:59:31
Local clock offset: 0.197 ms
Remote clock offset: 0.361 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 9.84 Mbit/s
  95th percentile per-packet one-way delay: 54.448 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 7.29 Mbit/s
  95th percentile per-packet one-way delay: 54.530 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 2.03 Mbit/s
  95th percentile per-packet one-way delay: 54.071 ms
  Loss rate: 0.20%
-- Flow 3:
  Average throughput: 3.68 Mbit/s
  95th percentile per-packet one-way delay: 53.709 ms
  Loss rate: 1.71%
Run 4: Report of Sprout — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 7.30 Mbps)
- **Flow 1 egress** (mean 7.29 Mbps)
- **Flow 2 ingress** (mean 2.02 Mbps)
- **Flow 2 egress** (mean 2.03 Mbps)
- **Flow 3 ingress** (mean 3.71 Mbps)
- **Flow 3 egress** (mean 3.66 Mbps)

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

- **Flow 1** (95th percentile 54.53 ms)
- **Flow 2** (95th percentile 54.07 ms)
- **Flow 3** (95th percentile 53.71 ms)
Run 5: Statistics of Sprout

Local clock offset: -0.142 ms
Remote clock offset: 0.318 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.57 Mbit/s
95th percentile per-packet one-way delay: 54.593 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 54.456 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 54.848 ms
Loss rate: 0.84%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-06-20 23:44:38
End at: 2018-06-20 23:45:08
Local clock offset: -0.14 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.67 Mbit/s
95th percentile per-packet one-way delay: 54.105 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 54.024 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 6.78 Mbit/s
95th percentile per-packet one-way delay: 54.093 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 54.436 ms
Loss rate: 1.11%
Run 6: Report of Sprout — Data Link

# Throughput (Mbps/s)

![Throughput Graph]

Legend:
- **Flow 1 ingress** (mean 7.08 Mbps/s)
- **Flow 1 egress** (mean 7.07 Mbps/s)
- **Flow 2 ingress** (mean 6.79 Mbps/s)
- **Flow 2 egress** (mean 6.78 Mbps/s)
- **Flow 3 ingress** (mean 6.39 Mbps/s)
- **Flow 3 egress** (mean 6.39 Mbps/s)

# Per-packet time war delay (ms)

![Delay Graph]

Legend:
- **Flow 1** (95th percentile 54.02 ms)
- **Flow 2** (95th percentile 54.09 ms)
- **Flow 3** (95th percentile 54.44 ms)
Run 7: Statistics of Sprout

Start at: 2018-06-21 00:07:43  
End at: 2018-06-21 00:08:13  
Local clock offset: -0.01 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2018-06-21 03:40:43  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 14.12 Mbit/s  
95th percentile per-packet one-way delay: 54.491 ms  
Loss rate: 0.63%

-- Flow 1:
Average throughput: 7.23 Mbit/s  
95th percentile per-packet one-way delay: 54.583 ms  
Loss rate: 0.45%

-- Flow 2:
Average throughput: 7.00 Mbit/s  
95th percentile per-packet one-way delay: 54.426 ms  
Loss rate: 0.42%

-- Flow 3:
Average throughput: 6.86 Mbit/s  
95th percentile per-packet one-way delay: 51.407 ms  
Loss rate: 1.61%
Run 7: Report of Sprout — Data Link

---

**Graph 1:**
Throughput (Mbit/s) vs. Time (s)
- **Flow 1 ingress (mean 7.24 Mbit/s)**
- **Flow 1 egress (mean 7.23 Mbit/s)**
- **Flow 2 ingress (mean 7.01 Mbit/s)**
- **Flow 2 egress (mean 7.00 Mbit/s)**
- **Flow 3 ingress (mean 6.89 Mbit/s)**
- **Flow 3 egress (mean 6.86 Mbit/s)**

**Graph 2:**
Per packet one way delay (ms) vs. Time (s)
- **Flow 1 (95th percentile 54.58 ms)**
- **Flow 2 (95th percentile 54.43 ms)**
- **Flow 3 (95th percentile 51.41 ms)**

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Run 8: Statistics of Sprout

Start at: 2018-06-21 00:31:11
End at: 2018-06-21 00:31:41
Local clock offset: 0.079 ms
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 54.614 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 7.42 Mbit/s
95th percentile per-packet one-way delay: 54.598 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 54.558 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 54.743 ms
Loss rate: 1.40%
Run 8: Report of Sprout — Data Link
Run 9: Statistics of Sprout

Start at: 2018-06-21 00:54:08
End at: 2018-06-21 00:54:38
Local clock offset: 0.129 ms
Remote clock offset: -0.368 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.26 Mbit/s
  95th percentile per-packet one-way delay: 51.573 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 7.29 Mbit/s
  95th percentile per-packet one-way delay: 51.557 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 6.48 Mbit/s
  95th percentile per-packet one-way delay: 51.591 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 5.09 Mbit/s
  95th percentile per-packet one-way delay: 51.577 ms
  Loss rate: 2.24%
Run 9: Report of Sprout — Data Link
Run 10: Statistics of Sprout

Start at: 2018-06-21 01:17:20
End at: 2018-06-21 01:17:50
Local clock offset: -0.098 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-21 03:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 54.766 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 54.739 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 54.813 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 54.538 ms
Loss rate: 0.19%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-20 22:06:38
End at: 2018-06-20 22:07:08
Local clock offset: -0.008 ms
Remote clock offset: 0.293 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 388.25 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 203.48 Mbit/s
95th percentile per-packet one-way delay: 50.913 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 192.04 Mbit/s
95th percentile per-packet one-way delay: 53.856 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 173.20 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 2.08%
Run 1: Report of TaoVA-100x — Data Link

![Graph showing throughput and packet error rate over time.]

- Flow 1 ingress (mean 202.85 Mbit/s)
- Flow 1 egress (mean 203.48 Mbit/s)
- Flow 2 ingress (mean 191.38 Mbit/s)
- Flow 2 egress (mean 192.04 Mbit/s)
- Flow 3 ingress (mean 175.17 Mbit/s)
- Flow 3 egress (mean 173.20 Mbit/s)

![Graph showing packet error rate over time.]

- Flow 1 (95th percentile 50.91 ms)
- Flow 2 (95th percentile 53.86 ms)
- Flow 3 (95th percentile 53.81 ms)
Run 2: Statistics of TaoVA-100x

End at: 2018-06-20 22:30:18
Local clock offset: 0.154 ms
Remote clock offset: -0.929 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.65 Mbit/s
95th percentile per-packet one-way delay: 55.284 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 176.29 Mbit/s
95th percentile per-packet one-way delay: 55.280 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 55.317 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 26.12 Mbit/s
95th percentile per-packet one-way delay: 56.281 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link
Run 3: Statistics of TaoVA-100x

End at: 2018-06-20 22:53:08
Local clock offset: 0.176 ms
Remote clock offset: -1.062 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 173.87 Mbit/s
  95th percentile per-packet one-way delay: 55.195 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 88.14 Mbit/s
  95th percentile per-packet one-way delay: 55.290 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 180.12 Mbit/s
  95th percentile per-packet one-way delay: 52.099 ms
  Loss rate: 0.10%
-- Flow 3:
  Average throughput: 94.57 Mbit/s
  95th percentile per-packet one-way delay: 56.984 ms
  Loss rate: 1.43%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 23:15:31  
End at: 2018-06-20 23:16:01  
Local clock offset: -0.092 ms  
Remote clock offset: 1.676 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 121.17 Mbit/s
95th percentile per-packet one-way delay: 52.470 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 23.68 Mbit/s
95th percentile per-packet one-way delay: 52.521 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 77.12 Mbit/s
95th percentile per-packet one-way delay: 52.531 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 225.43 Mbit/s
95th percentile per-packet one-way delay: 49.096 ms
Loss rate: 1.03%
Run 4: Report of TaoVA-100x — Data Link

![Graph](image)

![Graph](image)
Run 5: Statistics of TaoVA-100x

End at: 2018-06-20 23:38:53
Local clock offset: -0.136 ms
Remote clock offset: 1.585 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 199.41 Mbit/s
  95th percentile per-packet one-way delay: 52.277 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 15.13 Mbit/s
  95th percentile per-packet one-way delay: 52.568 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 255.04 Mbit/s
  95th percentile per-packet one-way delay: 49.109 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 44.20 Mbit/s
  95th percentile per-packet one-way delay: 52.606 ms
  Loss rate: 0.34%
Run 5: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Per packet one way delay (ms)

Time (s)

Flow 1 ingress (mean 15.12 Mbit/s)  
Flow 1 egress (mean 15.13 Mbit/s)  
Flow 2 ingress (mean 235.68 Mbit/s)  
Flow 2 egress (mean 255.04 Mbit/s)  
Flow 3 ingress (mean 43.67 Mbit/s)  
Flow 3 egress (mean 44.20 Mbit/s)  

Flow 1 (95th percentile 52.57 ms)  
Flow 2 (95th percentile 49.11 ms)  
Flow 3 (95th percentile 52.61 ms)
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-21 00:01:10
End at: 2018-06-21 00:01:40
Local clock offset: 0.207 ms
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.02 Mbit/s
95th percentile per-packet one-way delay: 53.263 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 78.24 Mbit/s
95th percentile per-packet one-way delay: 54.039 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 249.55 Mbit/s
95th percentile per-packet one-way delay: 50.972 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 232.87 Mbit/s
95th percentile per-packet one-way delay: 51.177 ms
Loss rate: 1.23%
Run 6: Report of TaoVA-100x — Data Link

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

![Graph 2: Per-packet one way delay vs. Time](image2)
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-21 00:24:35
End at: 2018-06-21 00:25:05
Local clock offset: 0.069 ms
Remote clock offset: -1.512 ms

# Below is generated by plot.py at 2018-06-21 03:50:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 283.30 Mbit/s
  95th percentile per-packet one-way delay: 55.575 ms
  Loss rate: 0.33%
-- Flow 1:
  Average throughput: 178.20 Mbit/s
  95th percentile per-packet one-way delay: 55.905 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 252.11 Mbit/s
  95th percentile per-packet one-way delay: 55.387 ms
  Loss rate: 0.52%
-- Flow 3:
  Average throughput: 16.03 Mbit/s
  95th percentile per-packet one-way delay: 55.189 ms
  Loss rate: 0.90%
Run 7: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 178.20 Mbit/s) - Flow 1 egress (mean 178.20 Mbit/s)
- Flow 2 ingress (mean 252.10 Mbit/s) - Flow 2 egress (mean 252.11 Mbit/s)
- Flow 3 ingress (mean 16.00 Mbit/s) - Flow 3 egress (mean 16.03 Mbit/s)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-21 00:47:34
End at: 2018-06-21 00:48:04
Local clock offset: -0.115 ms
Remote clock offset: -1.654 ms

# Below is generated by plot.py at 2018-06-21 03:50:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.71 Mbit/s
95th percentile per-packet one-way delay: 55.005 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 150.10 Mbit/s
95th percentile per-packet one-way delay: 54.981 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 55.032 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 55.146 ms
Loss rate: 0.99%
Run 8: Report of TaoVA-100x — Data Link

![Chart 1](image1.png)

**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 149.94 Mbit/s)**
- **Flow 1 egress (mean 150.10 Mbit/s)**
- **Flow 2 ingress (mean 248.36 Mbit/s)**
- **Flow 2 egress (mean 248.30 Mbit/s)**
- **Flow 3 ingress (mean 13.68 Mbit/s)**
- **Flow 3 egress (mean 13.69 Mbit/s)**

![Chart 2](image2.png)

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

- **Flow 1 (95th percentile 54.98 ms)**
- **Flow 2 (95th percentile 55.03 ms)**
- **Flow 3 (95th percentile 55.15 ms)**
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-21 01:10:52
End at: 2018-06-21 01:11:22
Local clock offset: 0.144 ms
Remote clock offset: -0.249 ms

# Below is generated by plot.py at 2018-06-21 03:50:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 119.94 Mbit/s
  95th percentile per-packet one-way delay: 54.223 ms
  Loss rate: 0.11%
-- Flow 1:
  Average throughput: 88.06 Mbit/s
  95th percentile per-packet one-way delay: 54.181 ms
  Loss rate: 0.05%
-- Flow 2:
  Average throughput: 33.47 Mbit/s
  95th percentile per-packet one-way delay: 54.297 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 29.16 Mbit/s
  95th percentile per-packet one-way delay: 56.322 ms
  Loss rate: 0.43%
Run 9: Report of TaoVA-100x — Data Link

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

![Graph of Per-packet one-way delay (ms)](image2)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-21 01:33:57
End at: 2018-06-21 01:34:27
Local clock offset: -0.013 ms
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.78 Mbit/s
95th percentile per-packet one-way delay: 58.365 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 192.51 Mbit/s
95th percentile per-packet one-way delay: 56.530 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 184.40 Mbit/s
95th percentile per-packet one-way delay: 60.193 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 41.38 Mbit/s
95th percentile per-packet one-way delay: 60.021 ms
Loss rate: 5.06%
Run 10: Report of TaoVA-100x — Data Link
Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 22:03:54
End at: 2018-06-20 22:04:24
Local clock offset: -0.04 ms
Remote clock offset: 0.302 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.87 Mbit/s
95th percentile per-packet one-way delay: 55.302 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 156.54 Mbit/s
95th percentile per-packet one-way delay: 55.229 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 76.47 Mbit/s
95th percentile per-packet one-way delay: 55.592 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 16.71 Mbit/s
95th percentile per-packet one-way delay: 55.074 ms
Loss rate: 1.18%
Run 1: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 156.61 Mbit/s), Flow 1 egress (mean 156.54 Mbit/s)
- Flow 2 ingress (mean 76.53 Mbit/s), Flow 2 egress (mean 76.47 Mbit/s)
- Flow 3 ingress (mean 16.74 Mbit/s), Flow 3 egress (mean 16.71 Mbit/s)
Run 2: Statistics of TCP Vegas

Local clock offset: -0.136 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.15 Mbit/s
95th percentile per-packet one-way delay: 59.305 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 130.68 Mbit/s
95th percentile per-packet one-way delay: 59.448 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 9.78 Mbit/s
95th percentile per-packet one-way delay: 54.476 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 69.58 Mbit/s
95th percentile per-packet one-way delay: 55.134 ms
Loss rate: 1.02%
Run 2: Report of TCP Vegas — Data Link
Run 3: Statistics of TCP Vegas

Start at: 2018-06-20 22:50:00
End at: 2018-06-20 22:50:30
Local clock offset: 0.211 ms
Remote clock offset: 1.412 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.39 Mbit/s
95th percentile per-packet one-way delay: 54.225 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 120.18 Mbit/s
95th percentile per-packet one-way delay: 53.963 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 56.13 Mbit/s
95th percentile per-packet one-way delay: 55.318 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 5.72 Mbit/s
95th percentile per-packet one-way delay: 53.298 ms
Loss rate: 2.13%
Run 3: Report of TCP Vegas — Data Link

Graph 1: Throughput (Mbps) vs. Time (s)
- Flow 1 ingress (mean 120.16 Mbps)
- Flow 1 egress (mean 120.18 Mbps)
- Flow 2 ingress (mean 56.09 Mbps)
- Flow 2 egress (mean 56.13 Mbps)
- Flow 3 ingress (mean 5.79 Mbps)
- Flow 3 egress (mean 5.72 Mbps)

Graph 2: Packet per second delay (ms) vs. Time (s)
- Flow 1 (95th percentile 53.96 ms)
- Flow 2 (95th percentile 55.32 ms)
- Flow 3 (95th percentile 53.30 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-06-20 23:12:46
End at: 2018-06-20 23:13:16
Local clock offset: -0.178 ms
Remote clock offset: -0.817 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 243.06 Mbit/s
  95th percentile per-packet one-way delay: 61.082 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 178.65 Mbit/s
  95th percentile per-packet one-way delay: 61.381 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 94.23 Mbit/s
  95th percentile per-packet one-way delay: 58.825 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 5.50 Mbit/s
  95th percentile per-packet one-way delay: 51.824 ms
  Loss rate: 2.25%
Run 4: Report of TCP Vegas — Data Link
Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 23:35:37
End at: 2018-06-20 23:36:07
Local clock offset: 0.199 ms
Remote clock offset: 0.318 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.54 Mbit/s
95th percentile per-packet one-way delay: 61.092 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 18.14 Mbit/s
95th percentile per-packet one-way delay: 60.492 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 217.81 Mbit/s
95th percentile per-packet one-way delay: 61.310 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 150.75 Mbit/s
95th percentile per-packet one-way delay: 60.014 ms
Loss rate: 1.14%
Run 5: Report of TCP Vegas — Data Link

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

![Graph 2: Per-Packet Round-Trip Time](image2)
Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 23:58:27
End at: 2018-06-20 23:58:57
Local clock offset: -0.138 ms
Remote clock offset: -1.124 ms

# Below is generated by plot.py at 2018-06-21 03:52:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.20 Mbit/s
95th percentile per-packet one-way delay: 56.048 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 111.49 Mbit/s
95th percentile per-packet one-way delay: 55.802 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 54.942 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 57.689 ms
Loss rate: 1.14%
Run 6: Report of TCP Vegas — Data Link
Run 7: Statistics of TCP Vegas

Start at: 2018-06-21 00:21:36
End at: 2018-06-21 00:22:06
Local clock offset: -0.025 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-06-21 03:53:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 345.05 Mbit/s
95th percentile per-packet one-way delay: 59.623 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 170.67 Mbit/s
95th percentile per-packet one-way delay: 55.814 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 222.91 Mbit/s
95th percentile per-packet one-way delay: 60.595 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 56.125 ms
Loss rate: 1.03%
Run 7: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 170.73 Mbit/s)**
- **Flow 1 egress (mean 170.67 Mbit/s)**
- **Flow 2 ingress (mean 223.06 Mbit/s)**
- **Flow 2 egress (mean 222.91 Mbit/s)**
- **Flow 3 ingress (mean 79.43 Mbit/s)**
- **Flow 3 egress (mean 79.50 Mbit/s)**

- **Flow 1 (95th percentile 55.81 ms)**
- **Flow 2 (95th percentile 60.59 ms)**
- **Flow 3 (95th percentile 56.12 ms)**
Run 8: Statistics of TCP Vegas

Start at: 2018-06-21 00:44:52
End at: 2018-06-21 00:45:22
Local clock offset: 0.231 ms
Remote clock offset: −0.48 ms

# Below is generated by plot.py at 2018-06-21 03:53:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.59 Mbit/s
95th percentile per-packet one-way delay: 57.607 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 223.45 Mbit/s
95th percentile per-packet one-way delay: 57.650 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 56.682 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 126.58 Mbit/s
95th percentile per-packet one-way delay: 57.976 ms
Loss rate: 1.12%
Run 8: Report of TCP Vegas — Data Link
Run 9: Statistics of TCP Vegas

Start at: 2018-06-21 01:08:01
End at: 2018-06-21 01:08:31
Local clock offset: -0.189 ms
Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-06-21 03:54:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 308.29 Mbit/s
95th percentile per-packet one-way delay: 62.036 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 221.35 Mbit/s
95th percentile per-packet one-way delay: 61.901 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 125.18 Mbit/s
95th percentile per-packet one-way delay: 62.240 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 63.127 ms
Loss rate: 1.54%
Run 9: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 221.40 Mbit/s)
- Flow 1 egress (mean 221.35 Mbit/s)
- Flow 2 ingress (mean 125.20 Mbit/s)
- Flow 2 egress (mean 125.18 Mbit/s)
- Flow 3 ingress (mean 11.21 Mbit/s)
- Flow 3 egress (mean 11.15 Mbit/s)
Run 10: Statistics of TCP Vegas

Start at: 2018-06-21 01:31:09
End at: 2018-06-21 01:31:39
Local clock offset: 0.034 ms
Remote clock offset: -1.099 ms

# Below is generated by plot.py at 2018-06-21 03:54:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.76 Mbit/s
95th percentile per-packet one-way delay: 55.127 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 186.38 Mbit/s
95th percentile per-packet one-way delay: 55.145 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 75.69 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 109.32 Mbit/s
95th percentile per-packet one-way delay: 55.364 ms
Loss rate: 0.99%
Run 10: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 186.37 Mbit/s)
- Flow 1 egress (mean 186.38 Mbit/s)
- Flow 2 ingress (mean 75.69 Mbit/s)
- Flow 2 egress (mean 75.69 Mbit/s)
- Flow 3 ingress (mean 109.39 Mbit/s)
- Flow 3 egress (mean 109.32 Mbit/s)

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

- Flow 1 (95th percentile 55.15 ms)
- Flow 2 (95th percentile 53.72 ms)
- Flow 3 (95th percentile 55.36 ms)
Run 1: Statistics of Verus

Start at: 2018-06-20 22:01:15
End at: 2018-06-20 22:01:45
Local clock offset: -0.024 ms
Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2018-06-21 03:56:32
# Datalink statistics
-- Total of 3 flows:
    Average throughput: 348.41 Mbit/s
    95th percentile per-packet one-way delay: 226.690 ms
    Loss rate: 1.80%
-- Flow 1:
    Average throughput: 268.97 Mbit/s
    95th percentile per-packet one-way delay: 231.987 ms
    Loss rate: 1.71%
-- Flow 2:
    Average throughput: 88.13 Mbit/s
    95th percentile per-packet one-way delay: 162.369 ms
    Loss rate: 1.38%
-- Flow 3:
    Average throughput: 63.01 Mbit/s
    95th percentile per-packet one-way delay: 156.757 ms
    Loss rate: 4.06%
Run 1: Report of Verus — Data Link

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

Legend:
- Flow 1 ingress (mean 275.19 Mbit/s)
- Flow 1 egress (mean 268.97 Mbit/s)
- Flow 2 ingress (mean 88.90 Mbit/s)
- Flow 2 egress (mean 88.13 Mbit/s)
- Flow 3 ingress (mean 65.00 Mbit/s)
- Flow 3 egress (mean 63.01 Mbit/s)
Run 2: Statistics of Verus

End at: 2018-06-20 22:24:51
Local clock offset: 0.104 ms
Remote clock offset: 1.61 ms

# Below is generated by plot.py at 2018-06-21 03:56:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.02 Mbit/s
95th percentile per-packet one-way delay: 111.202 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 160.12 Mbit/s
95th percentile per-packet one-way delay: 87.914 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 197.37 Mbit/s
95th percentile per-packet one-way delay: 126.761 ms
Loss rate: 2.07%
-- Flow 3:
Average throughput: 148.94 Mbit/s
95th percentile per-packet one-way delay: 127.528 ms
Loss rate: 0.40%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 159.80 Mbps)
- Flow 1 egress (mean 160.12 Mbps)
- Flow 2 ingress (mean 200.49 Mbps)
- Flow 2 egress (mean 197.37 Mbps)
- Flow 3 ingress (mean 132.27 Mbps)
- Flow 3 egress (mean 148.94 Mbps)

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

- Flow 1 (95th percentile 87.91 ms)
- Flow 2 (95th percentile 126.76 ms)
- Flow 3 (95th percentile 127.53 ms)
Run 3: Statistics of Verus

End at: 2018-06-20 22:47:52
Local clock offset: 0.113 ms
Remote clock offset: -0.756 ms

# Below is generated by plot.py at 2018-06-21 03:57:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 348.62 Mbit/s
  95th percentile per-packet one-way delay: 136.014 ms
  Loss rate: 0.81%
-- Flow 1:
  Average throughput: 209.00 Mbit/s
  95th percentile per-packet one-way delay: 131.255 ms
  Loss rate: 0.55%
-- Flow 2:
  Average throughput: 172.24 Mbit/s
  95th percentile per-packet one-way delay: 138.838 ms
  Loss rate: 1.15%
-- Flow 3:
  Average throughput: 76.72 Mbit/s
  95th percentile per-packet one-way delay: 138.971 ms
  Loss rate: 1.36%
Run 3: Report of Verus — Data Link
Run 4: Statistics of Verus

Start at: 2018-06-20 23:10:04
End at: 2018-06-20 23:10:34
Local clock offset: -0.253 ms
Remote clock offset: 0.375 ms

# Below is generated by plot.py at 2018-06-21 03:59:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 384.84 Mbit/s
95th percentile per-packet one-way delay: 218.996 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 227.66 Mbit/s
95th percentile per-packet one-way delay: 127.962 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 127.43 Mbit/s
95th percentile per-packet one-way delay: 172.160 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 221.83 Mbit/s
95th percentile per-packet one-way delay: 264.036 ms
Loss rate: 14.09%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-20 23:33:01
End at: 2018-06-20 23:33:31
Local clock offset: -0.19 ms
Remote clock offset: 0.389 ms

# Below is generated by plot.py at 2018-06-21 03:59:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 301.29 Mbit/s
95th percentile per-packet one-way delay: 128.410 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 205.08 Mbit/s
95th percentile per-packet one-way delay: 125.208 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 105.97 Mbit/s
95th percentile per-packet one-way delay: 127.518 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 139.661 ms
Loss rate: 1.68%
Run 5: Report of Verus — Data Link

![Graph of network throughput](image1)

- Flow 1 ingress (mean 204.39 Mbit/s)
- Flow 1 egress (mean 205.08 Mbit/s)
- Flow 2 ingress (mean 106.68 Mbit/s)
- Flow 2 egress (mean 105.97 Mbit/s)
- Flow 3 ingress (mean 79.41 Mbit/s)
- Flow 3 egress (mean 79.04 Mbit/s)

![Graph of per-packet delay](image2)

- Flow 1 (95th percentile 125.21 ms)
- Flow 2 (95th percentile 127.52 ms)
- Flow 3 (95th percentile 139.66 ms)
Run 6: Statistics of Verus

End at: 2018-06-20 23:56:16
Local clock offset: 0.072 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-21 04:00:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.83 Mbit/s
95th percentile per-packet one-way delay: 152.748 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 248.30 Mbit/s
95th percentile per-packet one-way delay: 150.532 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 160.73 Mbit/s
95th percentile per-packet one-way delay: 153.452 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 117.53 Mbit/s
95th percentile per-packet one-way delay: 159.273 ms
Loss rate: 2.43%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-21 00:18:56
End at: 2018-06-21 00:19:26
Local clock offset: -0.077 ms
Remote clock offset: -0.404 ms

# Below is generated by plot.py at 2018-06-21 04:01:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 382.16 Mbit/s
  95th percentile per-packet one-way delay: 134.927 ms
  Loss rate: 1.50%
-- Flow 1:
  Average throughput: 228.19 Mbit/s
  95th percentile per-packet one-way delay: 124.473 ms
  Loss rate: 1.78%
-- Flow 2:
  Average throughput: 153.72 Mbit/s
  95th percentile per-packet one-way delay: 139.213 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 158.87 Mbit/s
  95th percentile per-packet one-way delay: 138.845 ms
  Loss rate: 2.08%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-06-21 00:42:12
End at: 2018-06-21 00:42:42
Local clock offset: 0.149 ms
Remote clock offset: -0.593 ms

# Below is generated by plot.py at 2018-06-21 04:01:19
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 365.04 Mbit/s
  95th percentile per-packet one-way delay: 161.054 ms
  Loss rate: 1.27%
-- Flow 1:
  Average throughput: 250.60 Mbit/s
  95th percentile per-packet one-way delay: 160.420 ms
  Loss rate: 0.79%
-- Flow 2:
  Average throughput: 118.20 Mbit/s
  95th percentile per-packet one-way delay: 165.406 ms
  Loss rate: 1.29%
-- Flow 3:
  Average throughput: 109.80 Mbit/s
  95th percentile per-packet one-way delay: 160.848 ms
  Loss rate: 4.48%
Run 8: Report of Verus — Data Link

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

Start at: 2018-06-21 01:05:22
End at: 2018-06-21 01:05:52
Local clock offset: 0.038 ms
Remote clock offset: -1.415 ms

# Below is generated by plot.py at 2018-06-21 04:02:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 363.14 Mbit/s
  95th percentile per-packet one-way delay: 136.352 ms
  Loss rate: 1.30%
-- Flow 1:
  Average throughput: 181.97 Mbit/s
  95th percentile per-packet one-way delay: 121.632 ms
  Loss rate: 0.53%
-- Flow 2:
  Average throughput: 214.80 Mbit/s
  95th percentile per-packet one-way delay: 135.040 ms
  Loss rate: 1.50%
-- Flow 3:
  Average throughput: 119.32 Mbit/s
  95th percentile per-packet one-way delay: 185.740 ms
  Loss rate: 3.97%
Run 9: Report of Verus — Data Link

![Throughput vs Time Graph]

- Flow 1 ingress (mean 182.30 Mbit/s)
- Flow 1 egress (mean 181.97 Mbit/s)
- Flow 2 ingress (mean 216.19 Mbit/s)
- Flow 2 egress (mean 214.88 Mbit/s)
- Flow 3 ingress (mean 122.92 Mbit/s)
- Flow 3 egress (mean 119.32 Mbit/s)

![Per-packet delay vs Time Graph]

- Flow 1 (95th percentile 121.03 ms)
- Flow 2 (95th percentile 135.04 ms)
- Flow 3 (95th percentile 185.74 ms)
Run 10: Statistics of Verus

Start at: 2018-06-21 01:28:28
End at: 2018-06-21 01:28:58
Local clock offset: -0.031 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-21 04:03:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.06 Mbit/s
95th percentile per-packet one-way delay: 167.126 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 240.93 Mbit/s
95th percentile per-packet one-way delay: 129.521 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 146.93 Mbit/s
95th percentile per-packet one-way delay: 228.372 ms
Loss rate: 5.93%
-- Flow 3:
Average throughput: 141.01 Mbit/s
95th percentile per-packet one-way delay: 157.301 ms
Loss rate: 3.11%
Run 10: Report of Verus — Data Link

![Graph showing network throughput and per-packet latency over time for different flows.]

- Flow 1 ingress (mean 242.22 Mbit/s) vs. Flow 1 egress (mean 240.93 Mbit/s)
- Flow 2 ingress (mean 135.53 Mbit/s) vs. Flow 2 egress (mean 146.93 Mbit/s)
- Flow 3 ingress (mean 143.98 Mbit/s) vs. Flow 3 egress (mean 141.01 Mbit/s)

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

- Flow 1 (95th percentile 129.52 ms) vs. Flow 2 (95th percentile 228.37 ms) vs. Flow 3 (95th percentile 157.30 ms)
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 22:08:20
End at: 2018-06-20 22:08:50
Local clock offset: -0.099 ms
Remote clock offset: -1.015 ms

# Below is generated by plot.py at 2018-06-21 04:07:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.15 Mbit/s
95th percentile per-packet one-way delay: 57.763 ms
Loss rate: 0.47%
-- Flow 1:
  Average throughput: 346.23 Mbit/s
  95th percentile per-packet one-way delay: 59.023 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 311.84 Mbit/s
  95th percentile per-packet one-way delay: 55.578 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 21.08 Mbit/s
  95th percentile per-packet one-way delay: 54.993 ms
  Loss rate: 2.42%
Run 1: Report of PCC-Vivace — Data Link
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-20 22:31:08
Local clock offset: 0.166 ms
Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2018-06-21 04:08:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 542.08 Mbit/s
  95th percentile per-packet one-way delay: 58.110 ms
  Loss rate: 0.43%
-- Flow 1:
  Average throughput: 351.37 Mbit/s
  95th percentile per-packet one-way delay: 58.709 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 279.82 Mbit/s
  95th percentile per-packet one-way delay: 57.139 ms
  Loss rate: 0.46%
-- Flow 3:
  Average throughput: 14.95 Mbit/s
  95th percentile per-packet one-way delay: 50.400 ms
  Loss rate: 1.91%
Run 2: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 351.48 Mbit/s)
- Flow 1 egress (mean 351.37 Mbit/s)
- Flow 2 ingress (mean 279.65 Mbit/s)
- Flow 2 egress (mean 279.82 Mbit/s)
- Flow 3 ingress (mean 15.08 Mbit/s)
- Flow 3 egress (mean 14.95 Mbit/s)

- Flow 1 (95th percentile 58.71 ms)
- Flow 2 (95th percentile 57.14 ms)
- Flow 3 (95th percentile 50.40 ms)
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-20 22:54:01
End at: 2018-06-20 22:54:31
Local clock offset: 0.108 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-06-21 04:09:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 574.78 Mbit/s
95th percentile per-packet one-way delay: 57.979 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 349.65 Mbit/s
95th percentile per-packet one-way delay: 57.689 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 311.83 Mbit/s
95th percentile per-packet one-way delay: 68.869 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 55.41 Mbit/s
95th percentile per-packet one-way delay: 51.260 ms
Loss rate: 1.43%
Run 3: Report of PCC-Vivace — Data Link

![Graph showing network performance metrics over time](image1)

![Graph showing packet delay over time](image2)
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 23:16:49
End at: 2018-06-20 23:17:19
Local clock offset: -0.04 ms
Remote clock offset: 0.106 ms

# Below is generated by plot.py at 2018-06-21 04:11:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 583.35 Mbit/s
95th percentile per-packet one-way delay: 54.504 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 354.52 Mbit/s
95th percentile per-packet one-way delay: 54.381 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 320.13 Mbit/s
95th percentile per-packet one-way delay: 54.555 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 49.81 Mbit/s
95th percentile per-packet one-way delay: 54.023 ms
Loss rate: 1.45%
Run 4: Report of PCC-Vivace — Data Link
Run 5: Statistics of PCC-Vivace

End at: 2018-06-20 23:40:18
Local clock offset: -0.067 ms
Remote clock offset: 1.512 ms

# Below is generated by plot.py at 2018-06-21 04:12:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 577.85 Mbit/s
95th percentile per-packet one-way delay: 54.869 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 336.72 Mbit/s
95th percentile per-packet one-way delay: 58.478 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 350.94 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 48.843 ms
Loss rate: 1.33%
Run 5: Report of PCC-Vivace — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 336.59 Mbit/s)
Flow 1 egress (mean 336.72 Mbit/s)
Flow 2 ingress (mean 350.89 Mbit/s)
Flow 2 egress (mean 350.94 Mbit/s)
Flow 3 ingress (mean 25.03 Mbit/s)
Flow 3 egress (mean 24.95 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 58.48 ms)
Flow 2 (95th percentile 53.37 ms)
Flow 3 (95th percentile 48.84 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-21 00:02:41
End at: 2018-06-21 00:03:11
Local clock offset: -0.055 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-06-21 04:12:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 573.37 Mbit/s
95th percentile per-packet one-way delay: 66.597 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 374.92 Mbit/s
95th percentile per-packet one-way delay: 62.420 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 283.24 Mbit/s
95th percentile per-packet one-way delay: 159.960 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 53.581 ms
Loss rate: 1.58%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-21 00:26:07
End at: 2018-06-21 00:26:37
Local clock offset: -0.094 ms
Remote clock offset: -0.384 ms

# Below is generated by plot.py at 2018-06-21 04:12:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 622.06 Mbit/s
95th percentile per-packet one-way delay: 54.231 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 366.37 Mbit/s
95th percentile per-packet one-way delay: 65.902 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 343.39 Mbit/s
95th percentile per-packet one-way delay: 51.760 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 54.047 ms
Loss rate: 1.44%
Run 7: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 366.33 Mbit/s)
- Flow 1 egress (mean 366.37 Mbit/s)
- Flow 2 ingress (mean 343.22 Mbit/s)
- Flow 2 egress (mean 343.39 Mbit/s)
- Flow 3 ingress (mean 84.96 Mbit/s)
- Flow 3 egress (mean 84.63 Mbit/s)

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

- Flow 1 (95th percentile 65.90 ms)
- Flow 2 (95th percentile 51.76 ms)
- Flow 3 (95th percentile 54.05 ms)
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-21 00:49:10
End at: 2018-06-21 00:49:40
Local clock offset: 0.029 ms
Remote clock offset: -0.316 ms

# Below is generated by plot.py at 2018-06-21 04:13:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 590.86 Mbit/s
  95th percentile per-packet one-way delay: 62.944 ms
  Loss rate: 0.32%
-- Flow 1:
  Average throughput: 365.14 Mbit/s
  95th percentile per-packet one-way delay: 75.671 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 309.63 Mbit/s
  95th percentile per-packet one-way delay: 54.964 ms
  Loss rate: 0.18%
-- Flow 3:
  Average throughput: 61.46 Mbit/s
  95th percentile per-packet one-way delay: 50.262 ms
  Loss rate: 1.55%
Run 8: Report of PCC-Vivace — Data Link

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

- **Throughput (Mbit/s):**
  - Flow 1 ingress (mean 365.08 Mbit/s)
  - Flow 1 egress (mean 365.14 Mbit/s)
  - Flow 2 ingress (mean 308.58 Mbit/s)
  - Flow 2 egress (mean 309.63 Mbit/s)
  - Flow 3 ingress (mean 61.78 Mbit/s)
  - Flow 3 egress (mean 61.46 Mbit/s)

- **Per-packet one way delay (ms):**
  - Flow 1 (95th percentile 75.67 ms)
  - Flow 2 (95th percentile 54.96 ms)
  - Flow 3 (95th percentile 50.26 ms)
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-21 01:12:11
End at: 2018-06-21 01:12:41
Local clock offset: -0.216 ms
Remote clock offset: 1.269 ms

# Below is generated by plot.py at 2018-06-21 04:14:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 630.70 Mbit/s
95th percentile per-packet one-way delay: 53.410 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 387.77 Mbit/s
95th percentile per-packet one-way delay: 53.928 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 344.29 Mbit/s
95th percentile per-packet one-way delay: 52.847 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 49.457 ms
Loss rate: 1.32%
Run 9: Report of PCC-Vivace — Data Link

![Graph showing data throughput over time](image1)

**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 387.46 Mbit/s)**
- **Flow 1 egress (mean 387.77 Mbit/s)**
- **Flow 2 ingress (mean 344.47 Mbit/s)**
- **Flow 2 egress (mean 344.29 Mbit/s)**
- **Flow 3 ingress (mean 44.03 Mbit/s)**
- **Flow 3 egress (mean 43.92 Mbit/s)**

![Graph showing per-packet one-way delay over time](image2)

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

- **Flow 1 (95th percentile 53.93 ms)**
- **Flow 2 (95th percentile 52.85 ms)**
- **Flow 3 (95th percentile 49.46 ms)**

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Run 10: Statistics of PCC-Vivace

Start at: 2018-06-21 01:35:34
End at: 2018-06-21 01:36:04
Local clock offset: 0.024 ms
Remote clock offset: 1.358 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 624.42 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 387.44 Mbit/s
95th percentile per-packet one-way delay: 51.837 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 339.40 Mbit/s
95th percentile per-packet one-way delay: 54.595 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 52.686 ms
Loss rate: 1.73%
Run 10: Report of PCC-Vivace — Data Link

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

- **Flow 1** ingress (mean 387.52 Mbit/s) and egress (mean 387.44 Mbit/s)
- **Flow 2** ingress (mean 338.74 Mbit/s) and egress (mean 339.40 Mbit/s)
- **Flow 3** ingress (mean 35.91 Mbit/s) and egress (mean 35.69 Mbit/s)
Run 1: Statistics of WebRTC media

Start at: 2018-06-20 21:51:17
End at: 2018-06-20 21:51:47
Local clock offset: -0.106 ms
Remote clock offset: -1.281 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 55.444 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 55.474 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 55.194 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 55.273 ms
Loss rate: 1.18%
Run 1: Report of WebRTC media — Data Link

![Graph showing throughput and packet delay over time for different flows.](image-url)
Run 2: Statistics of WebRTC media

End at: 2018-06-20 22:14:56
Local clock offset: -0.139 ms
Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.85 Mbit/s
  95th percentile per-packet one-way delay: 53.764 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 2.02 Mbit/s
  95th percentile per-packet one-way delay: 53.808 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 1.32 Mbit/s
  95th percentile per-packet one-way delay: 50.766 ms
  Loss rate: 0.48%
-- Flow 3:
  Average throughput: 0.53 Mbit/s
  95th percentile per-packet one-way delay: 53.743 ms
  Loss rate: 1.92%
Run 2: Report of WebRTC media — Data Link

![Throughput Graph](image1)

![Packet Delay Graph](image2)
Run 3: Statistics of WebRTC media

End at: 2018-06-20 22:37:50
Local clock offset: -0.073 ms
Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 53.403 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.343 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 53.463 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 50.255 ms
Loss rate: 1.11%
Run 3: Report of WebRTC media — Data Link

![Throughput Graph](image1)

![Delay Graph](image2)
Run 4: Statistics of WebRTC media

Start at: 2018-06-20 23:00:10
End at: 2018-06-20 23:00:40
Local clock offset: 0.143 ms
Remote clock offset: -0.781 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.88 Mbit/s
  95th percentile per-packet one-way delay: 54.937 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 2.06 Mbit/s
  95th percentile per-packet one-way delay: 54.945 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 1.30 Mbit/s
  95th percentile per-packet one-way delay: 54.940 ms
  Loss rate: 0.80%
-- Flow 3:
  Average throughput: 0.54 Mbit/s
  95th percentile per-packet one-way delay: 51.739 ms
  Loss rate: 1.63%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-06-20 23:23:02
Local clock offset: 0.16 ms
Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 54.256 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 54.300 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.182 ms
Loss rate: 1.17%
Run 5: Report of WebRTC media — Data Link

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

- Flow 1: Ingress (mean 2.03 Mbit/s) and Egress (mean 2.03 Mbit/s)
- Flow 2: Ingress (mean 1.33 Mbit/s) and Egress (mean 1.33 Mbit/s)
- Flow 3: Ingress (mean 0.55 Mbit/s) and Egress (mean 0.54 Mbit/s)

![Graph showing packet delay distribution over time.

- Flow 1: 95th percentile 54.15 ms
- Flow 2: 95th percentile 54.30 ms
- Flow 3: 95th percentile 54.18 ms]
Run 6: Statistics of WebRTC media

Start at: 2018-06-20 23:45:48
End at: 2018-06-20 23:46:18
Local clock offset: -0.001 ms
Remote clock offset: 0.318 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 53.679 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 53.526 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 53.557 ms
Loss rate: 1.16%
Run 6: Report of WebRTC media — Data Link

![Graph showing throughput and packet loss over time for different flows.](image-url)
Run 7: Statistics of WebRTC media

Start at: 2018-06-21 00:08:53
End at: 2018-06-21 00:09:23
Local clock offset: 0.081 ms
Remote clock offset: -0.196 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 50.304 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 53.886 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.804 ms
Loss rate: 1.58%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-21 00:32:21
End at: 2018-06-21 00:32:51
Local clock offset: 0.007 ms
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 54.006 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 1.03%
Run 8: Report of WebRTC media — Data Link

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

Throughput (Mbps):
- Flow 1 ingress (mean 2.03 Mbps)
- Flow 1 egress (mean 2.02 Mbps)
- Flow 2 ingress (mean 1.33 Mbps)
- Flow 2 egress (mean 1.33 Mbps)
- Flow 3 ingress (mean 0.54 Mbps)
- Flow 3 egress (mean 0.54 Mbps)

One way delay (ms):
- Flow 1 (95th percentile 54.01 ms)
- Flow 2 (95th percentile 53.86 ms)
- Flow 3 (95th percentile 53.92 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-21 00:55:17
End at: 2018-06-21 00:55:47
Local clock offset: -0.089 ms
Remote clock offset: -1.227 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 54.817 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 51.296 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 54.755 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.910 ms
Loss rate: 1.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-06-21 01:18:30
End at: 2018-06-21 01:19:00
Local clock offset: -0.052 ms
Remote clock offset: -1.356 ms

# Below is generated by plot.py at 2018-06-21 04:14:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 55.037 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 51.457 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 55.078 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.520 ms
Loss rate: 1.62%
Run 10: Report of WebRTC media — Data Link

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**Throughput (Mbit/s)**

- Flow 1 ingress (mean 2.09 Mbit/s)
- Flow 1 egress (mean 2.08 Mbit/s)
- Flow 2 ingress (mean 1.32 Mbit/s)
- Flow 2 egress (mean 1.32 Mbit/s)
- Flow 3 ingress (mean 0.55 Mbit/s)
- Flow 3 egress (mean 0.54 Mbit/s)

**Per-packet round trip delay (ms)**

- Flow 1 (95th percentile 51.46 ms)
- Flow 2 (95th percentile 55.08 ms)
- Flow 3 (95th percentile 54.52 ms)