Pantheon Report

Data path: GCE Tokyo Ethernet (remote) → GCE Iowa 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 @ d47f4fa1b454a5e3c0537115c5a28436bd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fedc872b4981e1
  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 @ 77961f1a82733a86b42f1b8143eb978f3ccf42
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 @ 3f0cc2a9061a41b6f9ddde4735770d143a1fa2851
test from GCE Tokyo to GCE Iowa, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
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<th>mean avg tput (Mbit/s)</th>
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<td>PCC-Vivace</td>
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<td>WebRTC media</td>
<td>10</td>
<td>1.91</td>
<td>1.26</td>
<td>0.51</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Local clock offset: 0.642 ms
Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-06-20 02:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.84 Mbit/s
95th percentile per-packet one-way delay: 70.96 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 172.51 Mbit/s
95th percentile per-packet one-way delay: 68.913 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 168.26 Mbit/s
95th percentile per-packet one-way delay: 70.029 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 165.45 Mbit/s
95th percentile per-packet one-way delay: 73.947 ms
Loss rate: 1.39%
Run 1: Report of TCP BBR — Data Link
Run 2: Statistics of TCP BBR

Local clock offset: 0.023 ms
Remote clock offset: 1.214 ms

# Below is generated by plot.py at 2018-06-20 02:29:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.75 Mbit/s
95th percentile per-packet one-way delay: 83.208 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 169.20 Mbit/s
95th percentile per-packet one-way delay: 81.055 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 168.44 Mbit/s
95th percentile per-packet one-way delay: 83.708 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 160.71 Mbit/s
95th percentile per-packet one-way delay: 86.758 ms
Loss rate: 1.41%
Run 2: Report of TCP BBR — Data Link

![Throughput Graph](image1)

![Per-packet end-to-end delay Graph](image2)
Run 3: Statistics of TCP BBR

Start at: 2018-06-19 23:07:16
End at: 2018-06-19 23:07:46
Local clock offset: -0.186 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-20 02:29:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.07 Mbit/s
95th percentile per-packet one-way delay: 74.632 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 172.62 Mbit/s
95th percentile per-packet one-way delay: 72.252 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 171.81 Mbit/s
95th percentile per-packet one-way delay: 75.075 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 164.71 Mbit/s
95th percentile per-packet one-way delay: 76.863 ms
Loss rate: 1.41%
Run 3: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 172.68 Mbit/s)
- Flow 1 egress (mean 172.62 Mbit/s)
- Flow 2 ingress (mean 171.89 Mbit/s)
- Flow 2 egress (mean 171.81 Mbit/s)
- Flow 3 ingress (mean 164.91 Mbit/s)
- Flow 3 egress (mean 164.71 Mbit/s)
Run 4: Statistics of TCP BBR

Start at: 2018-06-19 23:30:30
End at: 2018-06-19 23:31:00
Local clock offset: -0.105 ms
Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-06-20 02:29:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.26 Mbit/s
95th percentile per-packet one-way delay: 75.107 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 173.63 Mbit/s
95th percentile per-packet one-way delay: 73.783 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 166.22 Mbit/s
95th percentile per-packet one-way delay: 75.305 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 164.38 Mbit/s
95th percentile per-packet one-way delay: 76.382 ms
Loss rate: 1.49%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 173.64 Mbit/s)
- Flow 1 egress (mean 173.63 Mbit/s)
- Flow 2 ingress (mean 166.32 Mbit/s)
- Flow 2 egress (mean 166.22 Mbit/s)
- Flow 3 ingress (mean 164.68 Mbit/s)
- Flow 3 egress (mean 164.38 Mbit/s)
Run 5: Statistics of TCP BBR

Start at: 2018-06-19 23:54:04
End at: 2018-06-19 23:54:34
Local clock offset: -0.158 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2018-06-20 02:29:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.82 Mbit/s
95th percentile per-packet one-way delay: 69.453 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 176.67 Mbit/s
95th percentile per-packet one-way delay: 68.930 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 174.28 Mbit/s
95th percentile per-packet one-way delay: 69.435 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 149.48 Mbit/s
95th percentile per-packet one-way delay: 70.940 ms
Loss rate: 1.55%
Run 5: Report of TCP BBR — Data Link

![Throughput Graph]

![Delay Graph]
Run 6: Statistics of TCP BBR

Start at: 2018-06-20 00:17:43
End at: 2018-06-20 00:18:13
Local clock offset: -0.135 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-06-20 02:29:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.12 Mbit/s
95th percentile per-packet one-way delay: 71.961 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 171.20 Mbit/s
95th percentile per-packet one-way delay: 70.456 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 169.86 Mbit/s
95th percentile per-packet one-way delay: 73.018 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 163.84 Mbit/s
95th percentile per-packet one-way delay: 69.070 ms
Loss rate: 1.43%
Run 6: Report of TCP BBR — Data Link
Run 7: Statistics of TCP BBR

Start at: 2018-06-20 00:40:43
End at: 2018-06-20 00:41:13
Local clock offset: -0.016 ms
Remote clock offset: -0.427 ms

# Below is generated by plot.py at 2018-06-20 02:29:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.65 Mbit/s
95th percentile per-packet one-way delay: 75.772 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 169.38 Mbit/s
95th percentile per-packet one-way delay: 74.426 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 166.48 Mbit/s
95th percentile per-packet one-way delay: 75.332 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 165.52 Mbit/s
95th percentile per-packet one-way delay: 77.885 ms
Loss rate: 1.48%
Run 7: Report of TCP BBR — Data Link

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

- **Throughput (Mbps):**
  - **Flow 1 ingress** (mean 169.48 Mbps)
  - **Flow 1 egress** (mean 169.38 Mbps)
  - **Flow 2 ingress** (mean 166.66 Mbps)
  - **Flow 2 egress** (mean 166.48 Mbps)
  - **Flow 3 ingress** (mean 165.92 Mbps)
  - **Flow 3 egress** (mean 165.52 Mbps)

- **Per-packet delay (ms):**
  - **Flow 1** (95th percentile 74.43 ms)
  - **Flow 2** (95th percentile 75.33 ms)
  - **Flow 3** (95th percentile 77.89 ms)
Run 8: Statistics of TCP BBR

Start at: 2018-06-20 01:04:16
End at: 2018-06-20 01:04:46
Local clock offset: -0.022 ms
Remote clock offset: -1.13 ms

# Below is generated by plot.py at 2018-06-20 02:29:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 340.18 Mbit/s
95th percentile per-packet one-way delay: 77.570 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 173.15 Mbit/s
95th percentile per-packet one-way delay: 76.410 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 168.34 Mbit/s
95th percentile per-packet one-way delay: 77.220 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 79.060 ms
Loss rate: 1.58%
Run 8: Report of TCP BBR — Data Link
Run 9: Statistics of TCP BBR

Start at: 2018-06-20 01:27:43
End at: 2018-06-20 01:28:13
Local clock offset: 0.027 ms
Remote clock offset: -1.214 ms

# Below is generated by plot.py at 2018-06-20 02:35:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 341.71 Mbit/s
  95th percentile per-packet one-way delay: 77.334 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 170.89 Mbit/s
  95th percentile per-packet one-way delay: 76.194 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 175.93 Mbit/s
  95th percentile per-packet one-way delay: 77.379 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 163.57 Mbit/s
  95th percentile per-packet one-way delay: 78.330 ms
  Loss rate: 1.42%
Run 9: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 170.95 Mbit/s)
- Flow 1 egress (mean 170.89 Mbit/s)
- Flow 2 ingress (mean 176.00 Mbit/s)
- Flow 2 egress (mean 175.93 Mbit/s)
- Flow 3 ingress (mean 163.79 Mbit/s)
- Flow 3 egress (mean 163.57 Mbit/s)

![Graph 2: Packet Delays](image2)

- Flow 1 (95th percentile 76.19 ms)
- Flow 2 (95th percentile 77.38 ms)
- Flow 3 (95th percentile 78.33 ms)
Run 10: Statistics of TCP BBR

Start at: 2018-06-20 01:51:10
End at: 2018-06-20 01:51:40
Local clock offset: 0.035 ms
Remote clock offset: 1.372 ms

# Below is generated by plot.py at 2018-06-20 02:35:28
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 335.57 Mbit/s
  95th percentile per-packet one-way delay: 72.988 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 168.42 Mbit/s
  95th percentile per-packet one-way delay: 69.878 ms
  Loss rate: 0.45%
-- Flow 2:
  Average throughput: 173.87 Mbit/s
  95th percentile per-packet one-way delay: 74.342 ms
  Loss rate: 0.23%
-- Flow 3:
  Average throughput: 157.26 Mbit/s
  95th percentile per-packet one-way delay: 75.699 ms
  Loss rate: 1.44%
Run 10: Report of TCP BBR — Data Link
Run 1: Statistics of Copa

End at: 2018-06-19 22:15:56
Local clock offset: 0.565 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-20 02:37:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.86 Mbit/s
95th percentile per-packet one-way delay: 67.705 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 117.11 Mbit/s
95th percentile per-packet one-way delay: 66.055 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 114.22 Mbit/s
95th percentile per-packet one-way delay: 67.762 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 133.13 Mbit/s
95th percentile per-packet one-way delay: 70.852 ms
Loss rate: 2.21%
Run 1: Report of Copa — Data Link

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

**Throughput (Mbps):**
- Flow 1 Ingress: Mean 116.86 Mbps
- Flow 1 Egress: Mean 117.11 Mbps
- Flow 2 Ingress: Mean 114.89 Mbps
- Flow 2 Egress: Mean 114.22 Mbps
- Flow 3 Ingress: Mean 134.37 Mbps
- Flow 3 Egress: Mean 133.13 Mbps

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile: 66.06 ms)
- Flow 2 (95th percentile: 67.76 ms)
- Flow 3 (95th percentile: 70.85 ms)
Run 2: Statistics of Copa

Local clock offset: 0.138 ms
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-06-20 02:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.84 Mbit/s
95th percentile per-packet one-way delay: 65.884 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 115.41 Mbit/s
95th percentile per-packet one-way delay: 66.332 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 65.716 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 64.561 ms
Loss rate: 1.60%
Run 2: Report of Copa — Data Link

![Graphs showing network performance metrics for different flows.](image-url)
Run 3: Statistics of Copa

Start at: 2018-06-19 23:02:15
End at: 2018-06-19 23:02:45
Local clock offset: -0.222 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2018-06-20 02:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.62 Mbit/s
95th percentile per-packet one-way delay: 79.366 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 113.67 Mbit/s
95th percentile per-packet one-way delay: 84.270 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 105.59 Mbit/s
95th percentile per-packet one-way delay: 68.066 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 105.39 Mbit/s
95th percentile per-packet one-way delay: 78.120 ms
Loss rate: 1.81%
Run 3: Report of Copa — Data Link

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

- **Throughput:**
  - Flow 1 ingress (mean 114.13 Mbit/s)
  - Flow 1 egress (mean 113.67 Mbit/s)
  - Flow 2 ingress (mean 105.60 Mbit/s)
  - Flow 2 egress (mean 105.59 Mbit/s)
  - Flow 3 ingress (mean 105.96 Mbit/s)
  - Flow 3 egress (mean 105.39 Mbit/s)

- **Per-packet round trip delay:**
  - Flow 1 (95th percentile 84.27 ms)
  - Flow 2 (95th percentile 68.07 ms)
  - Flow 3 (95th percentile 78.12 ms)
Run 4: Statistics of Copa

Local clock offset: -0.117 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-20 02:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.28 Mbit/s
95th percentile per-packet one-way delay: 71.255 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 109.06 Mbit/s
95th percentile per-packet one-way delay: 66.662 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 145.41 Mbit/s
95th percentile per-packet one-way delay: 75.560 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 67.769 ms
Loss rate: 1.28%
Run 4: Report of Copa — Data Link

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

Flow 1 ingress (mean 109.03 Mbit/s)
Flow 2 ingress (mean 145.51 Mbit/s)
Flow 3 ingress (mean 92.64 Mbit/s)
Flow 1 egress (mean 109.06 Mbit/s)
Flow 2 egress (mean 145.41 Mbit/s)
Flow 3 egress (mean 92.64 Mbit/s)

Flow 1 (95th percentile 66.66 ms)
Flow 2 (95th percentile 75.56 ms)
Flow 3 (95th percentile 67.77 ms)
Run 5: Statistics of Copa

Local clock offset: -0.059 ms
Remote clock offset: -1.151 ms

# Below is generated by plot.py at 2018-06-20 02:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.47 Mbit/s
95th percentile per-packet one-way delay: 66.763 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 105.86 Mbit/s
95th percentile per-packet one-way delay: 67.283 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 116.82 Mbit/s
95th percentile per-packet one-way delay: 66.664 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 66.023 ms
Loss rate: 1.64%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 105.77 Mbit/s)
- Flow 1 egress (mean 105.86 Mbit/s)
- Flow 2 ingress (mean 116.60 Mbit/s)
- Flow 2 egress (mean 116.82 Mbit/s)
- Flow 3 ingress (mean 79.21 Mbit/s)
- Flow 3 egress (mean 78.89 Mbit/s)
Run 6: Statistics of Copa

Start at: 2018-06-20 00:12:41
End at: 2018-06-20 00:13:11
Local clock offset: -0.149 ms
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-06-20 02:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.86 Mbit/s
95th percentile per-packet one-way delay: 68.427 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 233.87 Mbit/s
95th percentile per-packet one-way delay: 71.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.30 Mbit/s
95th percentile per-packet one-way delay: 66.474 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 131.25 Mbit/s
95th percentile per-packet one-way delay: 66.578 ms
Loss rate: 0.75%
Run 6: Report of Copa — Data Link

- Flow 1 ingress (mean 234.29 Mb/s)
- Flow 1 egress (mean 233.87 Mb/s)
- Flow 2 ingress (mean 145.63 Mb/s)
- Flow 2 egress (mean 145.36 Mb/s)
- Flow 3 ingress (mean 130.57 Mb/s)
- Flow 3 egress (mean 131.25 Mb/s)

- Flow 1 (95th percentile 71.47 ms)
- Flow 2 (95th percentile 66.47 ms)
- Flow 3 (95th percentile 66.58 ms)
Run 7: Statistics of Copa

Start at: 2018-06-20 00:35:49
End at: 2018-06-20 00:36:19
Local clock offset: -0.016 ms
Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2018-06-20 02:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.99 Mbit/s
95th percentile per-packet one-way delay: 65.402 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 103.59 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 87.42 Mbit/s
95th percentile per-packet one-way delay: 65.193 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 56.26 Mbit/s
95th percentile per-packet one-way delay: 75.941 ms
Loss rate: 0.00%
Run 7: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 103.60 Mbit/s)
- Flow 1 egress (mean 103.59 Mbit/s)
- Flow 2 ingress (mean 87.33 Mbit/s)
- Flow 2 egress (mean 87.42 Mbit/s)
- Flow 3 ingress (mean 56.87 Mbit/s)
- Flow 3 egress (mean 56.26 Mbit/s)

Per-packet one-way delay (ms)
Run 8: Statistics of Copa

Start at: 2018-06-20 00:59:15
End at: 2018-06-20 00:59:45
Local clock offset: -0.066 ms
Remote clock offset: 0.143 ms

# Below is generated by plot.py at 2018-06-20 02:44:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.36 Mbit/s
95th percentile per-packet one-way delay: 67.893 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 146.23 Mbit/s
95th percentile per-packet one-way delay: 68.824 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 88.34 Mbit/s
95th percentile per-packet one-way delay: 64.690 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 71.222 ms
Loss rate: 2.36%
Run 8: Report of Copa — Data Link

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

Legend:
- Flow 1 ingress (mean 146.18 Mbit/s)
- Flow 1 egress (mean 146.23 Mbit/s)
- Flow 2 ingress (mean 88.35 Mbit/s)
- Flow 2 egress (mean 88.34 Mbit/s)
- Flow 3 ingress (mean 72.21 Mbit/s)
- Flow 3 egress (mean 71.41 Mbit/s)
Run 9: Statistics of Copa

Start at: 2018-06-20 01:22:41
End at: 2018-06-20 01:23:11
Local clock offset: -0.013 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-06-20 02:45:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 239.85 Mbit/s
95th percentile per-packet one-way delay: 70.328 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 106.73 Mbit/s
95th percentile per-packet one-way delay: 65.464 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 160.91 Mbit/s
95th percentile per-packet one-way delay: 75.423 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 64.843 ms
Loss rate: 0.98%
Run 9: Report of Copa — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 106.58 Mbps)  
Flow 1 egress (mean 106.73 Mbps)  
Flow 2 ingress (mean 160.50 Mbps)  
Flow 2 egress (mean 160.91 Mbps)  
Flow 3 ingress (mean 79.13 Mbps)  
Flow 3 egress (mean 79.37 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 65.46 ms)  
Flow 2 (95th percentile 75.42 ms)  
Flow 3 (95th percentile 64.84 ms)
Run 10: Statistics of Copa

Start at: 2018-06-20 01:46:07
End at: 2018-06-20 01:46:37
Local clock offset: 0.004 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-20 02:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 245.22 Mbit/s
95th percentile per-packet one-way delay: 66.839 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 132.64 Mbit/s
95th percentile per-packet one-way delay: 65.709 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 117.38 Mbit/s
95th percentile per-packet one-way delay: 70.413 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 105.54 Mbit/s
95th percentile per-packet one-way delay: 64.932 ms
Loss rate: 1.27%
Run 10: Report of Copa — Data Link

[Graph showing throughput and packet loss over time, legends for different flows and their mean throughputs and 95th percentile delays are provided.]
Run 1: Statistics of TCP Cubic

Local clock offset: 0.368 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-20 02:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.75 Mbit/s
95th percentile per-packet one-way delay: 75.031 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 179.88 Mbit/s
95th percentile per-packet one-way delay: 74.828 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 177.40 Mbit/s
95th percentile per-packet one-way delay: 75.560 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 100.51 Mbit/s
95th percentile per-packet one-way delay: 71.742 ms
Loss rate: 1.16%
Run 1: Report of TCP Cubic — Data Link

![Graph of Throughput](image)

![Graph of RTT](image)

Legend:
- Flow 1 ingress (mean 180.00 Mbit/s)
- Flow 1 egress (mean 179.88 Mbit/s)
- Flow 2 ingress (mean 177.51 Mbit/s)
- Flow 2 egress (mean 177.40 Mbit/s)
- Flow 3 ingress (mean 100.39 Mbit/s)
- Flow 3 egress (mean 100.51 Mbit/s)

Legend:
- Flow 1 (95th percentile 74.83 ms)
- Flow 2 (95th percentile 75.56 ms)
- Flow 3 (95th percentile 71.74 ms)
Run 2: Statistics of TCP Cubic

Local clock offset: -0.192 ms
Remote clock offset: -1.35 ms

# Below is generated by plot.py at 2018-06-20 02:45:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 320.82 Mbit/s
  95th percentile per-packet one-way delay: 74.984 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 181.25 Mbit/s
  95th percentile per-packet one-way delay: 75.405 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 124.88 Mbit/s
  95th percentile per-packet one-way delay: 73.256 ms
  Loss rate: 0.66%
-- Flow 3:
  Average throughput: 172.81 Mbit/s
  95th percentile per-packet one-way delay: 74.876 ms
  Loss rate: 1.44%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 23:19:45
End at: 2018-06-19 23:20:15
Local clock offset: -0.137 ms
Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-06-20 02:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 176.08 Mbit/s
95th percentile per-packet one-way delay: 73.234 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 73.652 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 55.78 Mbit/s
95th percentile per-packet one-way delay: 72.606 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 172.16 Mbit/s
95th percentile per-packet one-way delay: 72.822 ms
Loss rate: 1.40%
Run 3: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 82.36 Mbit/s)
- Flow 1 egress (mean 82.33 Mbit/s)
- Flow 2 ingress (mean 55.69 Mbit/s)
- Flow 2 egress (mean 55.78 Mbit/s)
- Flow 3 ingress (mean 172.46 Mbit/s)
- Flow 3 egress (mean 172.16 Mbit/s)

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

- Flow 1 (95th percentile 73.65 ms)
- Flow 2 (95th percentile 72.61 ms)
- Flow 3 (95th percentile 72.82 ms)
Run 4: Statistics of TCP Cubic

End at: 2018-06-19 23:43:45
Local clock offset: -0.149 ms
Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-06-20 02:45:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 313.36 Mbit/s
95th percentile per-packet one-way delay: 74.328 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 180.59 Mbit/s
95th percentile per-packet one-way delay: 74.781 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 115.15 Mbit/s
95th percentile per-packet one-way delay: 72.497 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 170.98 Mbit/s
95th percentile per-packet one-way delay: 73.687 ms
Loss rate: 1.41%
Run 4: Report of TCP Cubic — Data Link
Run 5: Statistics of TCP Cubic

Start at: 2018-06-20 00:06:44
End at: 2018-06-20 00:07:14
Local clock offset: -0.158 ms
Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2018-06-20 02:48:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.68 Mbit/s
95th percentile per-packet one-way delay: 77.074 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 179.70 Mbit/s
95th percentile per-packet one-way delay: 73.858 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 172.75 Mbit/s
95th percentile per-packet one-way delay: 76.595 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 165.09 Mbit/s
95th percentile per-packet one-way delay: 81.502 ms
Loss rate: 1.46%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 00:30:05  
End at: 2018-06-20 00:30:35  
Local clock offset: -0.117 ms  
Remote clock offset: 1.254 ms

# Below is generated by plot.py at 2018-06-20 02:48:09  
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.92 Mbit/s  
95th percentile per-packet one-way delay: 74.602 ms  
Loss rate: 0.50%
-- Flow 1:
Average throughput: 151.16 Mbit/s  
95th percentile per-packet one-way delay: 73.541 ms  
Loss rate: 0.33%
-- Flow 2:
Average throughput: 177.45 Mbit/s  
95th percentile per-packet one-way delay: 75.342 ms  
Loss rate: 0.68%
-- Flow 3:
Average throughput: 3.06 Mbit/s  
95th percentile per-packet one-way delay: 67.885 ms  
Loss rate: 5.78%
Run 6: Report of TCP Cubic — Data Link

[Graph showing throughput and packet delay over time for different flows.]
Run 7: Statistics of TCP Cubic

Start at: 2018-06-20 00:53:27
End at: 2018-06-20 00:53:57
Local clock offset: -0.044 ms
Remote clock offset: -1.348 ms

# Below is generated by plot.py at 2018-06-20 02:50:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.05 Mbit/s
95th percentile per-packet one-way delay: 78.519 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 165.93 Mbit/s
95th percentile per-packet one-way delay: 78.521 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 180.16 Mbit/s
95th percentile per-packet one-way delay: 78.157 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 137.53 Mbit/s
95th percentile per-packet one-way delay: 79.110 ms
Loss rate: 0.73%
Run 7: Report of TCP Cubic — Data Link

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[Graph of throughput over time with data points for different flows.
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[Graph of per-packet round-trip delay over time with data points for different flows.]

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Run 8: Statistics of TCP Cubic

Start at: 2018-06-20 01:16:48
End at: 2018-06-20 01:17:18
Local clock offset: -0.025 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-20 02:51:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.02 Mbit/s
95th percentile per-packet one-way delay: 80.411 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 177.79 Mbit/s
95th percentile per-packet one-way delay: 79.492 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 177.11 Mbit/s
95th percentile per-packet one-way delay: 80.602 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 82.295 ms
Loss rate: 1.57%
Run 8: Report of TCP Cubic — Data Link
Run 9: Statistics of TCP Cubic

Start at: 2018-06-20 01:40:14
End at: 2018-06-20 01:40:44
Local clock offset: -0.001 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-20 02:51:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 326.43 Mbit/s
  95th percentile per-packet one-way delay: 76.855 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 181.36 Mbit/s
  95th percentile per-packet one-way delay: 77.120 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 178.22 Mbit/s
  95th percentile per-packet one-way delay: 76.697 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 81.17 Mbit/s
  95th percentile per-packet one-way delay: 74.590 ms
  Loss rate: 1.48%
Run 9: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 181.47 Mbit/s)
- Flow 1 egress (mean 181.36 Mbit/s)
- Flow 2 ingress (mean 178.34 Mbit/s)
- Flow 2 egress (mean 178.22 Mbit/s)
- Flow 3 ingress (mean 81.33 Mbit/s)
- Flow 3 egress (mean 81.17 Mbit/s)
Run 10: Statistics of TCP Cubic

Start at: 2018-06-20 02:03:55
End at: 2018-06-20 02:04:25
Local clock offset: -0.077 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-06-20 02:51:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.30 Mbit/s
95th percentile per-packet one-way delay: 74.440 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 158.14 Mbit/s
95th percentile per-packet one-way delay: 74.861 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 100.78 Mbit/s
95th percentile per-packet one-way delay: 70.411 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 170.65 Mbit/s
95th percentile per-packet one-way delay: 74.627 ms
Loss rate: 1.45%
Run 10: Report of TCP Cubic — Data Link

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

**Graph 1:** Throughput (Mbps) over time.
- Flow 1 ingress (mean 157.99 Mbps)
- Flow 1 egress (mean 158.14 Mbps)
- Flow 2 ingress (mean 101.00 Mbps)
- Flow 2 egress (mean 100.78 Mbps)
- Flow 3 ingress (mean 171.04 Mbps)
- Flow 3 egress (mean 170.65 Mbps)

**Graph 2:** Per-packet one-way delay (ms) over time.
- Flow 1 (95th percentile 74.86 ms)
- Flow 2 (95th percentile 70.41 ms)
- Flow 3 (95th percentile 74.63 ms)
Run 1: Statistics of FillP

Local clock offset: 0.491 ms
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2018-06-20 03:15:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1245.42 Mbit/s
95th percentile per-packet one-way delay: 188.701 ms
Loss rate: 7.70%

-- Flow 1:
Average throughput: 628.12 Mbit/s
95th percentile per-packet one-way delay: 162.276 ms
Loss rate: 7.14%

-- Flow 2:
Average throughput: 631.81 Mbit/s
95th percentile per-packet one-way delay: 223.367 ms
Loss rate: 9.53%

-- Flow 3:
Average throughput: 601.09 Mbit/s
95th percentile per-packet one-way delay: 148.589 ms
Loss rate: 5.46%
Run 1: Report of FillP — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 673.53 Mbps)
  - Flow 1 egress (mean 628.12 Mbps)
  - Flow 2 ingress (mean 693.92 Mbps)
  - Flow 2 egress (mean 631.81 Mbps)
  - Flow 3 ingress (mean 626.41 Mbps)
  - Flow 3 egress (mean 601.09 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 162.28 ms)
  - Flow 2 (95th percentile 223.37 ms)
  - Flow 3 (95th percentile 148.59 ms)
Run 2: Statistics of FillP

End at: 2018-06-19 22:54:49
Local clock offset: -0.139 ms
Remote clock offset: 1.234 ms

# Below is generated by plot.py at 2018-06-20 03:17:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1301.37 Mbit/s
95th percentile per-packet one-way delay: 153.506 ms
Loss rate: 7.61%
-- Flow 1:
Average throughput: 678.93 Mbit/s
95th percentile per-packet one-way delay: 153.047 ms
Loss rate: 8.14%
-- Flow 2:
Average throughput: 655.39 Mbit/s
95th percentile per-packet one-way delay: 154.924 ms
Loss rate: 6.83%
-- Flow 3:
Average throughput: 570.22 Mbit/s
95th percentile per-packet one-way delay: 152.096 ms
Loss rate: 7.45%
Run 2: Report of FillP — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 Ingress (mean 735.90 Mbps)
  - Flow 1 Egress (mean 678.93 Mbps)
  - Flow 2 Ingress (mean 698.93 Mbps)
  - Flow 2 Egress (mean 655.39 Mbps)
  - Flow 3 Ingress (mean 609.15 Mbps)
  - Flow 3 Egress (mean 570.22 Mbps)

- **Packet Error Rate (ms):**
  - Flow 1 (95th percentile 153.05 ms)
  - Flow 2 (95th percentile 154.92 ms)
  - Flow 3 (95th percentile 152.10 ms)
Run 3: Statistics of FillP

Start at: 2018-06-19 23:17:45
End at: 2018-06-19 23:18:15
Local clock offset: -0.091 ms
Remote clock offset: -1.491 ms

# Below is generated by plot.py at 2018-06-20 03:17:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1143.26 Mbit/s
95th percentile per-packet one-way delay: 203.907 ms
Loss rate: 10.81%
-- Flow 1:
Average throughput: 650.71 Mbit/s
95th percentile per-packet one-way delay: 166.885 ms
Loss rate: 9.93%
-- Flow 2:
Average throughput: 516.74 Mbit/s
95th percentile per-packet one-way delay: 254.580 ms
Loss rate: 9.94%
-- Flow 3:
Average throughput: 455.15 Mbit/s
95th percentile per-packet one-way delay: 100.311 ms
Loss rate: 16.20%
Run 3: Report of FILLP — Data Link

**Throughput (Mb/s)**

- Flow 1 Ingress (mean 719.38 Mb/s)
- Flow 1 Egress (mean 650.71 Mb/s)
- Flow 2 Ingress (mean 570.18 Mb/s)
- Flow 2 Egress (mean 516.74 Mb/s)
- Flow 3 Ingress (mean 536.26 Mb/s)
- Flow 3 Egress (mean 455.15 Mb/s)

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

- Flow 1 (95th percentile 166.88 ms)
- Flow 2 (95th percentile 254.58 ms)
- Flow 3 (95th percentile 100.31 ms)
Run 4: Statistics of FillP

Start at: 2018-06-19 23:41:06
End at: 2018-06-19 23:41:36
Local clock offset: -0.155 ms
Remote clock offset: 1.39 ms

# Below is generated by plot.py at 2018-06-20 03:21:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1366.93 Mbit/s
95th percentile per-packet one-way delay: 194.868 ms
Loss rate: 7.14%
-- Flow 1:
Average throughput: 704.81 Mbit/s
95th percentile per-packet one-way delay: 200.697 ms
Loss rate: 7.08%
-- Flow 2:
Average throughput: 723.38 Mbit/s
95th percentile per-packet one-way delay: 195.718 ms
Loss rate: 6.21%
-- Flow 3:
Average throughput: 552.88 Mbit/s
95th percentile per-packet one-way delay: 171.865 ms
Loss rate: 9.77%
Run 4: Report of FillP — Data Link
Run 5: Statistics of FillP

Start at: 2018-06-20 00:04:34
End at: 2018-06-20 00:05:04
Local clock offset: -0.118 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-20 03:23:57
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 1380.68 Mbit/s
 95th percentile per-packet one-way delay: 180.492 ms
 Loss rate: 6.85%
-- Flow 1:
 Average throughput: 773.52 Mbit/s
 95th percentile per-packet one-way delay: 209.761 ms
 Loss rate: 5.24%
-- Flow 2:
 Average throughput: 627.20 Mbit/s
 95th percentile per-packet one-way delay: 159.385 ms
 Loss rate: 10.32%
-- Flow 3:
 Average throughput: 580.34 Mbit/s
 95th percentile per-packet one-way delay: 152.239 ms
 Loss rate: 5.35%
Run 5: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 812.87 Mb/s)
- Flow 1 Egress (mean 773.52 Mb/s)
- Flow 2 Ingress (mean 695.02 Mb/s)
- Flow 2 Egress (mean 627.25 Mb/s)
- Flow 3 Ingress (mean 605.43 Mb/s)
- Flow 3 Egress (mean 580.34 Mb/s)

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

- Flow 1 (95th percentile 209.76 ms)
- Flow 2 (95th percentile 159.38 ms)
- Flow 3 (95th percentile 152.24 ms)
Run 6: Statistics of FillP

Start at: 2018-06-20 00:27:57
End at: 2018-06-20 00:28:27
Local clock offset: -0.041 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-06-20 03:23:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1336.31 Mbit/s
95th percentile per-packet one-way delay: 162.691 ms
Loss rate: 7.37%
-- Flow 1:
Average throughput: 751.42 Mbit/s
95th percentile per-packet one-way delay: 148.046 ms
Loss rate: 6.19%
-- Flow 2:
Average throughput: 619.08 Mbit/s
95th percentile per-packet one-way delay: 180.362 ms
Loss rate: 9.41%
-- Flow 3:
Average throughput: 529.32 Mbit/s
95th percentile per-packet one-way delay: 162.271 ms
Loss rate: 7.47%
Run 6: Report of FillP — Data Link

Throughput (Mbps)

Time (s)

Flow 1 Ingress (mean 797.73 Mbps)
Flow 1 Egress (mean 751.42 Mbps)
Flow 2 Ingress (mean 679.08 Mbps)
Flow 2 Egress (mean 619.08 Mbps)
Flow 3 Ingress (mean 564.61 Mbps)
Flow 3 Egress (mean 529.32 Mbps)

Delay (ms)

Time (s)

Flow 1 (95th percentile 148.05 ms)
Flow 2 (95th percentile 180.36 ms)
Flow 3 (95th percentile 162.27 ms)
Run 7: Statistics of FillP

Start at: 2018-06-20 00:51:19
End at: 2018-06-20 00:51:49
Local clock offset: -0.043 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-06-20 03:23:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1270.86 Mbit/s
95th percentile per-packet one-way delay: 163.604 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 653.87 Mbit/s
95th percentile per-packet one-way delay: 164.380 ms
Loss rate: 8.51%
-- Flow 2:
Average throughput: 631.24 Mbit/s
95th percentile per-packet one-way delay: 163.196 ms
Loss rate: 7.89%
-- Flow 3:
Average throughput: 601.59 Mbit/s
95th percentile per-packet one-way delay: 155.173 ms
Loss rate: 8.49%
Run 7: Report of FillP — Data Link
Run 8: Statistics of FillP

Start at: 2018-06-20 01:14:41
End at: 2018-06-20 01:15:11
Local clock offset: -0.019 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-06-20 03:23:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1242.15 Mbit/s
95th percentile per-packet one-way delay: 209.229 ms
Loss rate: 8.11%
-- Flow 1:
Average throughput: 660.29 Mbit/s
95th percentile per-packet one-way delay: 165.076 ms
Loss rate: 8.07%
-- Flow 2:
Average throughput: 576.24 Mbit/s
95th percentile per-packet one-way delay: 297.341 ms
Loss rate: 7.86%
-- Flow 3:
Average throughput: 606.52 Mbit/s
95th percentile per-packet one-way delay: 164.553 ms
Loss rate: 8.74%
Run 8: Report of FillP — Data Link

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

- Flow 1 ingress (mean 715.18 Mbit/s)
- Flow 1 egress (mean 660.29 Mbit/s)
- Flow 2 ingress (mean 621.37 Mbit/s)
- Flow 2 egress (mean 576.24 Mbit/s)
- Flow 3 ingress (mean 656.16 Mbit/s)
- Flow 3 egress (mean 606.52 Mbit/s)

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

- Flow 1 (95th percentile 165.08 ms)
- Flow 2 (95th percentile 297.34 ms)
- Flow 3 (95th percentile 164.55 ms)

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Run 9: Statistics of FillP

Start at: 2018-06-20 01:38:09
End at: 2018-06-20 01:38:39
Local clock offset: 0.087 ms
Remote clock offset: 1.193 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1225.89 Mbit/s
95th percentile per-packet one-way delay: 237.230 ms
Loss rate: 8.63%
-- Flow 1:
Average throughput: 657.03 Mbit/s
95th percentile per-packet one-way delay: 242.632 ms
Loss rate: 6.80%
-- Flow 2:
Average throughput: 576.62 Mbit/s
95th percentile per-packet one-way delay: 197.217 ms
Loss rate: 10.75%
-- Flow 3:
Average throughput: 566.05 Mbit/s
95th percentile per-packet one-way delay: 142.390 ms
Loss rate: 10.47%
Run 9: Report of FillP — Data Link

[Chart depicting throughput over time for different flows with mean values indicated.]

[Chart depicting per-packet end-to-end delay over time for different flows with 95th percentile values indicated.]
Run 10: Statistics of FillP

Start at: 2018-06-20 02:01:51
End at: 2018-06-20 02:02:21
Local clock offset: -0.044 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1179.90 Mbit/s
95th percentile per-packet one-way delay: 248.861 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 601.26 Mbit/s
95th percentile per-packet one-way delay: 216.550 ms
Loss rate: 3.72%
-- Flow 2:
Average throughput: 571.30 Mbit/s
95th percentile per-packet one-way delay: 259.175 ms
Loss rate: 4.96%
-- Flow 3:
Average throughput: 606.27 Mbit/s
95th percentile per-packet one-way delay: 281.213 ms
Loss rate: 5.76%
Run 1: Statistics of Indigo

Local clock offset: 0.623 ms  
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-06-20 03:49:11  
# Datalink statistics

-- Total of 3 flows:
Average throughput: 418.46 Mbit/s  
95th percentile per-packet one-way delay: 66.979 ms  
Loss rate: 0.67%  

-- Flow 1:
Average throughput: 211.37 Mbit/s  
95th percentile per-packet one-way delay: 66.354 ms  
Loss rate: 0.45%  

-- Flow 2:
Average throughput: 206.78 Mbit/s  
95th percentile per-packet one-way delay: 68.043 ms  
Loss rate: 0.67%  

-- Flow 3:
Average throughput: 170.31 Mbit/s  
95th percentile per-packet one-way delay: 66.998 ms  
Loss rate: 1.47%
Run 1: Report of Indigo — Data Link

Throughput graph showing:
- Flow 1 ingress (mean 211.37 Mbps)
- Flow 1 egress (mean 211.37 Mbps)
- Flow 2 ingress (mean 206.86 Mbps)
- Flow 2 egress (mean 206.78 Mbps)
- Flow 3 ingress (mean 170.57 Mbps)
- Flow 3 egress (mean 170.31 Mbps)

Latency graph showing:
- Flow 1 (95th percentile 66.35 ms)
- Flow 2 (95th percentile 68.04 ms)
- Flow 3 (95th percentile 67.00 ms)
Run 2: Statistics of Indigo

Local clock offset: -0.085 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.92 Mbit/s
95th percentile per-packet one-way delay: 70.404 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 205.73 Mbit/s
95th percentile per-packet one-way delay: 70.354 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 213.09 Mbit/s
95th percentile per-packet one-way delay: 70.291 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 150.41 Mbit/s
95th percentile per-packet one-way delay: 70.647 ms
Loss rate: 1.47%
Run 2: Report of Indigo — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 205.73 Mbps)  Flow 1 egress (mean 205.73 Mbps)
Flow 2 ingress (mean 213.09 Mbps)  Flow 2 egress (mean 213.09 Mbps)
Flow 3 ingress (mean 150.68 Mbps)  Flow 3 egress (mean 150.41 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 70.35 ms)  Flow 2 (95th percentile 70.29 ms)  Flow 3 (95th percentile 70.65 ms)
Run 3: Statistics of Indigo

End at: 2018-06-19 23:11:37
Local clock offset: -0.128 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.03 Mbit/s
95th percentile per-packet one-way delay: 68.194 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 216.66 Mbit/s
95th percentile per-packet one-way delay: 66.759 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 207.05 Mbit/s
95th percentile per-packet one-way delay: 69.790 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 147.80 Mbit/s
95th percentile per-packet one-way delay: 69.490 ms
Loss rate: 1.51%
Run 3: Report of Indigo — Data Link

[Graph showing throughput and per-packet one-way delays over time for different flows.]
Run 4: Statistics of Indigo

Start at: 2018-06-19 23:34:26
End at: 2018-06-19 23:34:56
Local clock offset: -0.11 ms
Remote clock offset: -1.159 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 396.62 Mbit/s
  95th percentile per-packet one-way delay: 91.417 ms
  Loss rate: 0.60%
-- Flow 1:
  Average throughput: 214.68 Mbit/s
  95th percentile per-packet one-way delay: 88.499 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 198.35 Mbit/s
  95th percentile per-packet one-way delay: 91.493 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 155.38 Mbit/s
  95th percentile per-packet one-way delay: 94.640 ms
  Loss rate: 1.44%
Run 4: Report of Indigo — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 214.59 Mbit/s)
- Flow 1 egress (mean 214.68 Mbit/s)
- Flow 2 ingress (mean 198.35 Mbit/s)
- Flow 2 egress (mean 198.35 Mbit/s)
- Flow 3 ingress (mean 155.62 Mbit/s)
- Flow 3 egress (mean 155.38 Mbit/s)

![Latency Graph]

- Flow 1 (95th percentile 88.50 ms)
- Flow 2 (95th percentile 91.49 ms)
- Flow 3 (95th percentile 94.64 ms)
Run 5: Statistics of Indigo

Start at: 2018-06-19 23:58:01
End at: 2018-06-19 23:58:31
Local clock offset: -0.14 ms
Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 405.64 Mbit/s
95th percentile per-packet one-way delay: 70.106 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 205.23 Mbit/s
95th percentile per-packet one-way delay: 68.789 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 210.49 Mbit/s
95th percentile per-packet one-way delay: 70.023 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 186.62 Mbit/s
95th percentile per-packet one-way delay: 73.986 ms
Loss rate: 1.41%
Run 5: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 205.24 Mbit/s)
- Flow 1 egress (mean 205.23 Mbit/s)
- Flow 2 ingress (mean 210.41 Mbit/s)
- Flow 2 egress (mean 210.49 Mbit/s)
- Flow 3 ingress (mean 186.89 Mbit/s)
- Flow 3 egress (mean 186.62 Mbit/s)

- Flow 1 (95th percentile 68.79 ms)
- Flow 2 (95th percentile 70.02 ms)
- Flow 3 (95th percentile 73.99 ms)
Run 6: Statistics of Indigo

Start at: 2018-06-20 00:21:36  
End at: 2018-06-20 00:22:06  
Local clock offset: -0.07 ms  
Remote clock offset: -1.381 ms

# Below is generated by plot.py at 2018-06-20 03:49:11  
# Datalink statistics

-- Total of 3 flows:  
Average throughput: 414.97 Mbit/s  
95th percentile per-packet one-way delay: 84.503 ms  
Loss rate: 0.65%

-- Flow 1:  
Average throughput: 203.29 Mbit/s  
95th percentile per-packet one-way delay: 80.259 ms  
Loss rate: 0.45%

-- Flow 2:  
Average throughput: 200.74 Mbit/s  
95th percentile per-packet one-way delay: 84.331 ms  
Loss rate: 0.59%

-- Flow 3:  
Average throughput: 165.12 Mbit/s  
95th percentile per-packet one-way delay: 88.389 ms  
Loss rate: 1.45%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-20 00:44:37
End at: 2018-06-20 00:45:07
Local clock offset: 0.006 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.06 Mbit/s
95th percentile per-packet one-way delay: 75.207 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 204.83 Mbit/s
95th percentile per-packet one-way delay: 74.417 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 211.33 Mbit/s
95th percentile per-packet one-way delay: 75.342 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 182.43 Mbit/s
95th percentile per-packet one-way delay: 76.330 ms
Loss rate: 1.47%
Run 7: Report of Indigo — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows, with labels indicating mean throughput and 95th percentile delay.]
Run 8: Statistics of Indigo

Start at: 2018-06-20 01:08:11
End at: 2018-06-20 01:08:41
Local clock offset: -0.044 ms
Remote clock offset: -1.344 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.05 Mbit/s
95th percentile per-packet one-way delay: 73.324 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 207.13 Mbit/s
95th percentile per-packet one-way delay: 72.570 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 201.09 Mbit/s
95th percentile per-packet one-way delay: 73.479 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 154.62 Mbit/s
95th percentile per-packet one-way delay: 74.716 ms
Loss rate: 1.51%
Run 8: Report of Indigo — Data Link

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

- **Flow 1 ingress** (mean 207.12 Mbit/s)
- **Flow 1 egress** (mean 207.13 Mbit/s)
- **Flow 2 ingress** (mean 201.05 Mbit/s)
- **Flow 2 egress** (mean 201.09 Mbit/s)
- **Flow 3 ingress** (mean 154.88 Mbit/s)
- **Flow 3 egress** (mean 154.62 Mbit/s)
Run 9: Statistics of Indigo

Start at: 2018-06-20 01:31:42
End at: 2018-06-20 01:32:12
Local clock offset: 0.019 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 385.14 Mbit/s
  95th percentile per-packet one-way delay: 75.089 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 211.50 Mbit/s
  95th percentile per-packet one-way delay: 72.805 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 182.80 Mbit/s
  95th percentile per-packet one-way delay: 78.315 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 163.70 Mbit/s
  95th percentile per-packet one-way delay: 75.996 ms
  Loss rate: 1.54%
Run 9: Report of Indigo — Data Link

Graph 1: Throughput (Mbps)

- Blue dashed line: Flow 1 ingress (mean 211.46 Mbps)
- Blue solid line: Flow 1 egress (mean 211.50 Mbps)
- Green dashed line: Flow 2 ingress (mean 182.88 Mbps)
- Green solid line: Flow 2 egress (mean 182.80 Mbps)
- Red dashed line: Flow 3 ingress (mean 164.66 Mbps)
- Red solid line: Flow 3 egress (mean 163.70 Mbps)

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

- Blue dot: Flow 1 (95th percentile 72.61 ms)
- Green dot: Flow 2 (95th percentile 78.31 ms)
- Red dot: Flow 3 (95th percentile 76.00 ms)
Run 10: Statistics of Indigo

Start at: 2018-06-20 01:55:09
End at: 2018-06-20 01:55:39
Local clock offset: -0.029 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 397.91 Mbit/s
95th percentile per-packet one-way delay: 69.933 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 208.07 Mbit/s
95th percentile per-packet one-way delay: 69.324 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 212.89 Mbit/s
95th percentile per-packet one-way delay: 70.052 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 150.52 Mbit/s
95th percentile per-packet one-way delay: 71.405 ms
Loss rate: 1.59%
Run 10: Report of Indigo — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 207.09 Mbps)
  - Flow 1 egress (mean 208.07 Mbps)
  - Flow 2 ingress (mean 212.85 Mbps)
  - Flow 2 egress (mean 212.89 Mbps)
  - Flow 3 ingress (mean 150.98 Mbps)
  - Flow 3 egress (mean 150.52 Mbps)

- **Latency (ms):**
  - Flow 1 (95th percentile 69.32 ms)
  - Flow 2 (95th percentile 70.05 ms)
  - Flow 3 (95th percentile 71.41 ms)
Run 1: Statistics of LEDBAT

Local clock offset: 0.596 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-20 03:49:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 64.803 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 64.870 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 64.740 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 64.321 ms
Loss rate: 2.54%
Run 1: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 19.26 Mbit/s)
- Flow 1 egress (mean 19.23 Mbit/s)
- Flow 2 ingress (mean 14.96 Mbit/s)
- Flow 2 egress (mean 14.86 Mbit/s)
- Flow 3 ingress (mean 7.59 Mbit/s)
- Flow 3 egress (mean 7.49 Mbit/s)

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

- Flow 1 (95th percentile 64.87 ms)
- Flow 2 (95th percentile 64.74 ms)
- Flow 3 (95th percentile 64.32 ms)
Run 2: Statistics of LEDBAT

Local clock offset: 0.002 ms
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.90 Mbit/s
95th percentile per-packet one-way delay: 65.026 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 65.184 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 64.809 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 64.920 ms
Loss rate: 2.77%
Run 2: Report of LEDBAT — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 22.43 Mbit/s)  
Flow 1 egress (mean 22.34 Mbit/s)  
Flow 2 ingress (mean 14.34 Mbit/s)  
Flow 2 egress (mean 14.45 Mbit/s)  
Flow 3 ingress (mean 6.11 Mbit/s)  
Flow 3 egress (mean 6.02 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 65.18 ms)  
Flow 2 (95th percentile 64.81 ms)  
Flow 3 (95th percentile 64.92 ms)
Run 3: Statistics of LEDBAT

Start at: 2018-06-19 23:06:04
End at: 2018-06-19 23:06:34
Local clock offset: -0.2 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 34.37 Mbit/s
  95th percentile per-packet one-way delay: 64.580 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 22.28 Mbit/s
  95th percentile per-packet one-way delay: 64.652 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 14.66 Mbit/s
  95th percentile per-packet one-way delay: 64.270 ms
  Loss rate: 1.28%
-- Flow 3:
  Average throughput: 7.25 Mbit/s
  95th percentile per-packet one-way delay: 64.686 ms
  Loss rate: 2.58%
Run 4: Statistics of LEDBAT

End at: 2018-06-19 23:29:49
Local clock offset: -0.103 ms
Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 64.654 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 19.38 Mbit/s
95th percentile per-packet one-way delay: 64.645 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 64.763 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 64.338 ms
Loss rate: 2.57%
Run 4: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 19.48 Mbit/s)
- Flow 1 egress (mean 19.38 Mbit/s)
- Flow 2 ingress (mean 14.26 Mbit/s)
- Flow 2 egress (mean 14.17 Mbit/s)
- Flow 3 ingress (mean 7.37 Mbit/s)
- Flow 3 egress (mean 7.27 Mbit/s)

![Graphs showing throughput and per-packet one-way delay for different flows.](image)
Run 5: Statistics of LEDBAT

Local clock offset: -0.084 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 34.41 Mbit/s
  95th percentile per-packet one-way delay: 65.290 ms
  Loss rate: 1.08%
-- Flow 1:
  Average throughput: 22.38 Mbit/s
  95th percentile per-packet one-way delay: 65.879 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 14.68 Mbit/s
  95th percentile per-packet one-way delay: 65.096 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 7.13 Mbit/s
  95th percentile per-packet one-way delay: 64.762 ms
  Loss rate: 2.58%
Run 5: Report of LEDBAT — Data Link

Diagram 1: Throughput (Mbps/s) vs. Time (s)
- Flow 1 ingress (mean 22.47 Mbps/s)
- Flow 1 egress (mean 22.38 Mbps/s)
- Flow 2 ingress (mean 14.77 Mbps/s)
- Flow 2 egress (mean 14.68 Mbps/s)
- Flow 3 ingress (mean 7.23 Mbps/s)
- Flow 3 egress (mean 7.13 Mbps/s)

Diagram 2: Per-packet one-way delay (ms) vs. Time (s)
- Flow 1 (95th percentile 65.08 ms)
- Flow 2 (95th percentile 65.10 ms)
- Flow 3 (95th percentile 64.76 ms)
Run 6: Statistics of LEDBAT

Start at: 2018-06-20 00:16:32
End at: 2018-06-20 00:17:02
Local clock offset: -0.088 ms
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 33.22 Mbit/s
  95th percentile per-packet one-way delay: 65.365 ms
  Loss rate: 0.95%
-- Flow 1:
  Average throughput: 21.10 Mbit/s
  95th percentile per-packet one-way delay: 65.435 ms
  Loss rate: 0.76%
-- Flow 2:
  Average throughput: 14.87 Mbit/s
  95th percentile per-packet one-way delay: 65.299 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 6.79 Mbit/s
  95th percentile per-packet one-way delay: 64.953 ms
  Loss rate: 1.30%
Run 6: Report of LEDBAT — Data Link
Run 7: Statistics of LEGBAT

Start at: 2018-06-20 00:39:31
End at: 2018-06-20 00:40:01
Local clock offset: ~0.029 ms
Remote clock offset: 0.951 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 32.11 Mbit/s
  95th percentile per-packet one-way delay: 64.002 ms
  Loss rate: 1.12%
-- Flow 1:
  Average throughput: 20.76 Mbit/s
  95th percentile per-packet one-way delay: 64.090 ms
  Loss rate: 0.87%
-- Flow 2:
  Average throughput: 13.86 Mbit/s
  95th percentile per-packet one-way delay: 63.943 ms
  Loss rate: 1.31%
-- Flow 3:
  Average throughput: 6.69 Mbit/s
  95th percentile per-packet one-way delay: 63.648 ms
  Loss rate: 2.68%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-06-20 01:03:04
End at: 2018-06-20 01:03:34
Local clock offset: -0.051 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 33.51 Mbit/s
  95th percentile per-packet one-way delay: 64.530 ms
  Loss rate: 1.10%
-- Flow 1:
  Average throughput: 22.56 Mbit/s
  95th percentile per-packet one-way delay: 64.514 ms
  Loss rate: 0.84%
-- Flow 2:
  Average throughput: 12.86 Mbit/s
  95th percentile per-packet one-way delay: 64.719 ms
  Loss rate: 1.36%
-- Flow 3:
  Average throughput: 7.43 Mbit/s
  95th percentile per-packet one-way delay: 64.113 ms
  Loss rate: 2.55%
Run 8: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 22.65 Mbit/s)
- Flow 1 egress (mean 22.56 Mbit/s)
- Flow 2 ingress (mean 12.96 Mbit/s)
- Flow 2 egress (mean 12.86 Mbit/s)
- Flow 3 ingress (mean 7.52 Mbit/s)
- Flow 3 egress (mean 7.43 Mbit/s)
Run 9: Statistics of LEDBAT

Start at: 2018-06-20 01:26:32
End at: 2018-06-20 01:27:02
Local clock offset: 0.02 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 34.22 Mbit/s
  95th percentile per-packet one-way delay: 64.897 ms
  Loss rate: 1.09%
-- Flow 1:
  Average throughput: 22.03 Mbit/s
  95th percentile per-packet one-way delay: 64.898 ms
  Loss rate: 0.85%
-- Flow 2:
  Average throughput: 14.92 Mbit/s
  95th percentile per-packet one-way delay: 64.916 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 7.27 Mbit/s
  95th percentile per-packet one-way delay: 64.792 ms
  Loss rate: 2.57%
Run 9: Report of LEDBAT — Data Link

![Graph showing data link throughput over time with different flowivities and per-packet one-way delays.](image)
Run 10: Statistics of LEDBAT

Start at: 2018-06-20 01:49:59
End at: 2018-06-20 01:50:29
Local clock offset: 0.043 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 34.42 Mbit/s
  95th percentile per-packet one-way delay: 65.238 ms
  Loss rate: 1.04%
-- Flow 1:
  Average throughput: 22.19 Mbit/s
  95th percentile per-packet one-way delay: 65.374 ms
  Loss rate: 0.85%
-- Flow 2:
  Average throughput: 14.81 Mbit/s
  95th percentile per-packet one-way delay: 65.090 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 7.42 Mbit/s
  95th percentile per-packet one-way delay: 65.007 ms
  Loss rate: 1.84%
Run 10: Report of LEDBAT — Data Link

![Graph showing data link performance metrics]

- **Flow 1 Ingress (mean 22.28 Mbit/s)**
- **Flow 1 Egress (mean 22.19 Mbit/s)**
- **Flow 2 Ingress (mean 14.91 Mbit/s)**
- **Flow 2 Egress (mean 14.81 Mbit/s)**
- **Flow 3 Ingress (mean 7.47 Mbit/s)**
- **Flow 3 Egress (mean 7.42 Mbit/s)**

![Graph showing packet delay]

- **Flow 1 (95th percentile 65.37 ms)**
- **Flow 2 (95th percentile 65.09 ms)**
- **Flow 3 (95th percentile 65.01 ms)**
Run 1: Statistics of PCC-Allegro

Local clock offset: 0.548 ms
Remote clock offset: -1.192 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 542.98 Mbit/s
  95th percentile per-packet one-way delay: 200.437 ms
  Loss rate: 2.94%
-- Flow 1:
  Average throughput: 495.59 Mbit/s
  95th percentile per-packet one-way delay: 201.743 ms
  Loss rate: 2.99%
-- Flow 2:
  Average throughput: 63.63 Mbit/s
  95th percentile per-packet one-way delay: 186.257 ms
  Loss rate: 2.06%
-- Flow 3:
  Average throughput: 16.17 Mbit/s
  95th percentile per-packet one-way delay: 187.110 ms
  Loss rate: 5.03%
Run 1: Report of PCC-Allegro — Data Link

Throughput (Mbit/s) vs Time (s)

- Flow 1 Ingress (mean 358.69 Mbit/s)
- Flow 2 Ingress (mean 64.57 Mbit/s)
- Flow 3 Ingress (mean 16.80 Mbit/s)
- Flow 1 Egress (mean 495.59 Mbit/s)
- Flow 2 Egress (mean 63.63 Mbit/s)
- Flow 3 Egress (mean 16.17 Mbit/s)

Packet one-way delay (ms) vs Time (s)

- Flow 1 (95th percentile 201.74 ms)
- Flow 2 (95th percentile 186.26 ms)
- Flow 3 (95th percentile 187.11 ms)
Run 2: Statistics of PCC-Allegro

Local clock offset: 0.236 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
   -- Total of 3 flows:
   Average throughput: 579.75 Mbit/s
   95th percentile per-packet one-way delay: 178.037 ms
   Loss rate: 1.89%
   -- Flow 1:
   Average throughput: 501.63 Mbit/s
   95th percentile per-packet one-way delay: 178.521 ms
   Loss rate: 1.83%
   -- Flow 2:
   Average throughput: 115.65 Mbit/s
   95th percentile per-packet one-way delay: 175.580 ms
   Loss rate: 2.29%
   -- Flow 3:
   Average throughput: 4.25 Mbit/s
   95th percentile per-packet one-way delay: 127.590 ms
   Loss rate: 1.28%
Run 2: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 598.83 Mbps)
- Flow 1 egress (mean 501.63 Mbps)
- Flow 2 ingress (mean 117.59 Mbps)
- Flow 2 egress (mean 115.05 Mbps)
- Flow 3 ingress (mean 4.25 Mbps)
- Flow 3 egress (mean 4.25 Mbps)

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

- Flow 1 (95th percentile 178.52 ms)
- Flow 2 (95th percentile 175.58 ms)
- Flow 3 (95th percentile 127.59 ms)
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 23:00:45
End at: 2018-06-19 23:01:15
Local clock offset: -0.209 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-20 03:49:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 554.20 Mbit/s
  95th percentile per-packet one-way delay: 205.867 ms
  Loss rate: 1.84%
-- Flow 1:
  Average throughput: 489.00 Mbit/s
  95th percentile per-packet one-way delay: 208.795 ms
  Loss rate: 1.79%
-- Flow 2:
  Average throughput: 68.68 Mbit/s
  95th percentile per-packet one-way delay: 179.131 ms
  Loss rate: 1.79%
-- Flow 3:
  Average throughput: 60.20 Mbit/s
  95th percentile per-packet one-way delay: 179.528 ms
  Loss rate: 3.06%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 Ingress (mean 495.80 Mb/s)
- Flow 1 Egress (mean 489.90 Mb/s)
- Flow 2 Ingress (mean 69.49 Mb/s)
- Flow 2 Egress (mean 68.68 Mb/s)
- Flow 3 Ingress (mean 61.29 Mb/s)
- Flow 3 Egress (mean 60.20 Mb/s)

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

- Flow 1 (95th percentile 208.79 ms)
- Flow 2 (95th percentile 179.11 ms)
- Flow 3 (95th percentile 179.53 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 23:24:00
End at: 2018-06-19 23:24:30
Local clock offset: -0.143 ms
Remote clock offset: -0.327 ms

# Below is generated by plot.py at 2018-06-20 03:49:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.73 Mbit/s
95th percentile per-packet one-way delay: 177.275 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 482.44 Mbit/s
95th percentile per-packet one-way delay: 179.074 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 71.98 Mbit/s
95th percentile per-packet one-way delay: 144.760 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 17.06 Mbit/s
95th percentile per-packet one-way delay: 94.960 ms
Loss rate: 1.32%
Run 4: Report of PCC-Allegro — Data Link
Run 5: Statistics of PCC-Allegro

Local clock offset: -0.15 ms  
Remote clock offset: -1.377 ms  

# Below is generated by plot.py at 2018-06-20 03:50:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 522.65 Mbit/s  
95th percentile per-packet one-way delay: 226.261 ms  
Loss rate: 5.11%  
-- Flow 1:  
Average throughput: 479.92 Mbit/s  
95th percentile per-packet one-way delay: 228.607 ms  
Loss rate: 5.30%  
-- Flow 2:  
Average throughput: 63.32 Mbit/s  
95th percentile per-packet one-way delay: 188.765 ms  
Loss rate: 2.80%  
-- Flow 3:  
Average throughput: 2.29 Mbit/s  
95th percentile per-packet one-way delay: 188.705 ms  
Loss rate: 4.51%
Run 5: Report of PCC-Allegro — Data Link

![Graph of throughput and packet delay over time for different flows.][1]

[1]: run5_report.png
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-20 00:11:11
End at: 2018-06-20 00:11:41
Local clock offset: -0.187 ms
Remote clock offset: -1.323 ms

# Below is generated by plot.py at 2018-06-20 03:50:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 537.62 Mbit/s
95th percentile per-packet one-way delay: 200.126 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 478.29 Mbit/s
95th percentile per-packet one-way delay: 201.340 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 60.76 Mbit/s
95th percentile per-packet one-way delay: 189.660 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 191.505 ms
Loss rate: 6.07%
Run 6: Report of PCC-Allegro — Data Link
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-20 00:34:21
End at: 2018-06-20 00:34:51
Local clock offset: -0.092 ms
Remote clock offset: 1.116 ms

# Below is generated by plot.py at 2018-06-20 03:56:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 528.07 Mbit/s
95th percentile per-packet one-way delay: 196.794 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 516.90 Mbit/s
95th percentile per-packet one-way delay: 197.148 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 188.919 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 189.132 ms
Loss rate: 1.44%
Run 7: Report of PCC-Allegro — Data Link

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

- **Flow 1 Ingress** (mean 526.22 Mbps/s)
- **Flow 1 Egress** (mean 516.90 Mbps/s)
- **Flow 2 Ingress** (mean 16.11 Mbps/s)
- **Flow 2 Egress** (mean 15.92 Mbps/s)
- **Flow 3 Ingress** (mean 2.20 Mbps/s)
- **Flow 3 Egress** (mean 2.20 Mbps/s)

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

- **Flow 1** (95th percentile 197.15 ms)
- **Flow 2** (95th percentile 188.92 ms)
- **Flow 3** (95th percentile 189.13 ms)
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-20 00:57:45
End at: 2018-06-20 00:58:16
Local clock offset: -0.0 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-06-20 03:57:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 528.17 Mbit/s
95th percentile per-packet one-way delay: 193.842 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 463.68 Mbit/s
95th percentile per-packet one-way delay: 197.026 ms
Loss rate: 1.72%
-- Flow 2:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 186.632 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 186.895 ms
Loss rate: 2.41%
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-20 01:21:09
End at: 2018-06-20 01:21:39
Local clock offset: -0.0 ms
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2018-06-20 03:57:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 539.24 Mbit/s
95th percentile per-packet one-way delay: 201.774 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 456.40 Mbit/s
95th percentile per-packet one-way delay: 213.856 ms
Loss rate: 5.27%
-- Flow 2:
Average throughput: 123.14 Mbit/s
95th percentile per-packet one-way delay: 190.601 ms
Loss rate: 5.48%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 191.004 ms
Loss rate: 12.02%
Run 9: Report of PCC-Allegro — Data Link

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

![Graph 2: Packet Delay vs Time](image2)
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-20 01:44:36
End at: 2018-06-20 01:45:06
Local clock offset: 0.03 ms
Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-06-20 03:57:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 535.47 Mbit/s
95th percentile per-packet one-way delay: 188.517 ms
Loss rate: 3.63%
-- Flow 1:
Average throughput: 471.48 Mbit/s
95th percentile per-packet one-way delay: 189.326 ms
Loss rate: 3.46%
-- Flow 2:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 185.845 ms
Loss rate: 3.84%
-- Flow 3:
Average throughput: 56.57 Mbit/s
95th percentile per-packet one-way delay: 186.577 ms
Loss rate: 7.25%
Run 10: Report of PCC-Allegro — Data Link
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 22:12:12
End at: 2018-06-19 22:12:42
Local clock offset: 0.584 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-20 04:02:57
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 368.47 Mbit/s
  95th percentile per-packet one-way delay: 263.048 ms
  Loss rate: 3.57%
-- Flow 1:
  Average throughput: 212.17 Mbit/s
  95th percentile per-packet one-way delay: 300.809 ms
  Loss rate: 5.37%
-- Flow 2:
  Average throughput: 177.00 Mbit/s
  95th percentile per-packet one-way delay: 64.139 ms
  Loss rate: 0.55%
-- Flow 3:
  Average throughput: 118.75 Mbit/s
  95th percentile per-packet one-way delay: 63.661 ms
  Loss rate: 2.39%
Run 1: Report of PCC-Expr — Data Link

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

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

- Flow 1 ingress (mean 223.24 Mbit/s)
- Flow 1 egress (mean 212.17 Mbit/s)
- Flow 2 ingress (mean 176.81 Mbit/s)
- Flow 2 egress (mean 177.00 Mbit/s)
- Flow 3 ingress (mean 120.08 Mbit/s)
- Flow 3 egress (mean 118.75 Mbit/s)

Flow 1 (95th percentile 300.81 ms)
Flow 2 (95th percentile 64.14 ms)
Flow 3 (95th percentile 63.66 ms)
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 22:35:43
Local clock offset: 0.242 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-20 04:03:46
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 299.706 ms
Loss rate: 6.64%
-- Flow 1:
Average throughput: 200.02 Mbit/s
95th percentile per-packet one-way delay: 204.726 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 223.05 Mbit/s
95th percentile per-packet one-way delay: 318.993 ms
Loss rate: 13.65%
-- Flow 3:
Average throughput: 98.23 Mbit/s
95th percentile per-packet one-way delay: 180.806 ms
Loss rate: 3.26%
Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 22:59:05
Local clock offset: -0.179 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-20 04:03:46
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 337.11 Mbit/s
  95th percentile per-packet one-way delay: 126.991 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 204.96 Mbit/s
  95th percentile per-packet one-way delay: 149.427 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 153.95 Mbit/s
  95th percentile per-packet one-way delay: 65.161 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 91.75 Mbit/s
  95th percentile per-packet one-way delay: 65.226 ms
  Loss rate: 1.44%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Local clock offset: -0.085 ms
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-06-20 04:03:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.77 Mbit/s
95th percentile per-packet one-way delay: 223.110 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 192.92 Mbit/s
95th percentile per-packet one-way delay: 216.883 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 212.29 Mbit/s
95th percentile per-packet one-way delay: 240.720 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 65.312 ms
Loss rate: 1.45%
Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 23:45:55
Local clock offset: -0.097 ms
Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2018-06-20 04:10:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 336.08 Mbit/s
  95th percentile per-packet one-way delay: 177.196 ms
  Loss rate: 1.57%
-- Flow 1:
  Average throughput: 174.35 Mbit/s
  95th percentile per-packet one-way delay: 116.104 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 220.86 Mbit/s
  95th percentile per-packet one-way delay: 188.285 ms
  Loss rate: 2.92%
-- Flow 3:
  Average throughput: 46.29 Mbit/s
  95th percentile per-packet one-way delay: 84.841 ms
  Loss rate: 1.82%
Run 5: Report of PCC-Expr — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 174.30 Mbps)  Flow 1 egress (mean 174.35 Mbps)
Flow 2 ingress (mean 226.03 Mbps)  Flow 2 egress (mean 220.86 Mbps)
Flow 3 ingress (mean 46.53 Mbps)  Flow 3 egress (mean 46.29 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 116.10 ms)  Flow 2 (95th percentile 188.28 ms)  Flow 3 (95th percentile 84.84 ms)
Run 6: Statistics of PCC-Expr

Start at: 2018-06-20 00:09:26
End at: 2018-06-20 00:09:56
Local clock offset: -0.181 ms
Remote clock offset: -0.288 ms

# Below is generated by plot.py at 2018-06-20 04:14:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 398.79 Mbit/s
  95th percentile per-packet one-way delay: 213.725 ms
  Loss rate: 5.26%
-- Flow 1:
  Average throughput: 171.04 Mbit/s
  95th percentile per-packet one-way delay: 70.044 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 314.88 Mbit/s
  95th percentile per-packet one-way delay: 224.494 ms
  Loss rate: 9.12%
-- Flow 3:
  Average throughput: 57.43 Mbit/s
  95th percentile per-packet one-way delay: 66.205 ms
  Loss rate: 1.87%
Run 6: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 171.12 Mbit/s)
- Flow 1 egress (mean 171.04 Mbit/s)
- Flow 2 ingress (mean 344.28 Mbit/s)
- Flow 2 egress (mean 314.88 Mbit/s)
- Flow 3 ingress (mean 57.77 Mbit/s)
- Flow 3 egress (mean 57.43 Mbit/s)

- Flow 1 95th percentile: 70.04 ms
- Flow 2 95th percentile: 224.49 ms
- Flow 3 95th percentile: 66.20 ms
Run 7: Statistics of PCC-Expr

Start at: 2018-06-20 00:32:43
End at: 2018-06-20 00:33:13
Local clock offset: -0.014 ms
Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-06-20 04:14:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.29 Mbit/s
95th percentile per-packet one-way delay: 109.636 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 187.17 Mbit/s
95th percentile per-packet one-way delay: 96.506 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 172.15 Mbit/s
95th percentile per-packet one-way delay: 143.084 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 94.83 Mbit/s
95th percentile per-packet one-way delay: 66.576 ms
Loss rate: 1.62%
Run 7: Report of PCC-Expr — Data Link
Run 8: Statistics of PCC-Expr

Start at: 2018-06-20 00:56:08
End at: 2018-06-20 00:56:38
Local clock offset: -0.03 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-20 04:14:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.63 Mbit/s
95th percentile per-packet one-way delay: 167.780 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 219.09 Mbit/s
95th percentile per-packet one-way delay: 185.438 ms
Loss rate: 1.37%
-- Flow 2:
Average throughput: 58.28 Mbit/s
95th percentile per-packet one-way delay: 64.203 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 82.13 Mbit/s
95th percentile per-packet one-way delay: 64.418 ms
Loss rate: 2.90%
Run 8: Report of PCC-Expr — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 221.19 Mbps)  Flow 1 egress (mean 219.09 Mbps)
Flow 2 ingress (mean 58.76 Mbps)  Flow 2 egress (mean 56.28 Mbps)
Flow 3 ingress (mean 83.49 Mbps)  Flow 3 egress (mean 82.13 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 185.44 ms)  Flow 2 (95th percentile 64.20 ms)  Flow 3 (95th percentile 64.42 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-20 01:19:30
End at: 2018-06-20 01:20:00
Local clock offset: -0.066 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-20 04:14:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.13 Mbit/s
95th percentile per-packet one-way delay: 119.763 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 151.82 Mbit/s
95th percentile per-packet one-way delay: 140.218 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 136.14 Mbit/s
95th percentile per-packet one-way delay: 113.412 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 119.02 Mbit/s
95th percentile per-packet one-way delay: 100.390 ms
Loss rate: 2.62%
Run 9: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 151.80 Mbps)  
- Flow 1 egress (mean 151.82 Mbps)
- Flow 2 ingress (mean 137.65 Mbps)  
- Flow 2 egress (mean 136.14 Mbps)
- Flow 3 ingress (mean 120.64 Mbps)  
- Flow 3 egress (mean 119.02 Mbps)

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

- Flow 1 (95th percentile 140.22 ms)
- Flow 2 (95th percentile 113.41 ms)
- Flow 3 (95th percentile 100.39 ms)
Run 10: Statistics of PCC-Expr

Start at: 2018-06-20 01:42:55
End at: 2018-06-20 01:43:25
Local clock offset: 0.031 ms
Remote clock offset: 1.29 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.74 Mbit/s
95th percentile per-packet one-way delay: 157.562 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 211.15 Mbit/s
95th percentile per-packet one-way delay: 193.930 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 161.19 Mbit/s
95th percentile per-packet one-way delay: 70.088 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 50.87 Mbit/s
95th percentile per-packet one-way delay: 62.589 ms
Loss rate: 1.68%
Run 10: Report of PCC-Expr — Data Link

![Graph showing data link analysis](image-url)

- Flow 1 ingress (mean 211.39 Mbit/s)
- Flow 1 egress (mean 211.15 Mbit/s)
- Flow 2 ingress (mean 161.14 Mbit/s)
- Flow 2 egress (mean 161.19 Mbit/s)
- Flow 3 ingress (mean 51.08 Mbit/s)
- Flow 3 egress (mean 50.87 Mbit/s)

![Graph showing packet delay analysis](image-url)

- Flow 1 (95th percentile 193.93 ms)
- Flow 2 (95th percentile 70.09 ms)
- Flow 3 (95th percentile 62.59 ms)
Run 1: Statistics of QUIC Cubic

Local clock offset: 0.594 ms
Remote clock offset: 1.332 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.44 Mbit/s
95th percentile per-packet one-way delay: 62.437 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 46.45 Mbit/s
95th percentile per-packet one-way delay: 62.391 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 32.27 Mbit/s
95th percentile per-packet one-way delay: 62.259 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 20.86 Mbit/s
95th percentile per-packet one-way delay: 62.781 ms
Loss rate: 0.75%
Run 1: Report of QUIC Cubic — Data Link

![Throughput Data Link Graph]

![Packet One Way Delay Graph]

Flow 1 ingress (mean 45.82 Mbit/s)  Flow 1 egress (mean 46.45 Mbit/s)
Flow 2 ingress (mean 32.54 Mbit/s)  Flow 2 egress (mean 32.27 Mbit/s)
Flow 3 ingress (mean 20.74 Mbit/s)  Flow 3 egress (mean 20.86 Mbit/s)

Flow 1 (95th percentile 62.39 ms)  Flow 2 (95th percentile 62.26 ms)  Flow 3 (95th percentile 62.78 ms)
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 22:34:30
End at: 2018-06-19 22:35:00
Local clock offset: 0.311 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.58 Mbit/s
95th percentile per-packet one-way delay: 63.806 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 44.45 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 15.29 Mbit/s
95th percentile per-packet one-way delay: 64.304 ms
Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

End at: 2018-06-19 22:58:21
Local clock offset: -0.241 ms
Remote clock offset: 0.368 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.42 Mbit/s
95th percentile per-packet one-way delay: 63.229 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 63.294 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 61.466 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 15.87 Mbit/s
95th percentile per-packet one-way delay: 61.436 ms
Loss rate: 0.76%
Run 3: Report of QUIC Cubic — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows. The figures display the mean throughput and 95th percentile delay for each flow.]
Run 4: Statistics of QUIC Cubic

End at: 2018-06-19 23:21:34
Local clock offset: -0.093 ms
Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 78.39 Mbit/s
  95th percentile per-packet one-way delay: 63.578 ms
  Loss rate: 0.74%
-- Flow 1:
  Average throughput: 44.28 Mbit/s
  95th percentile per-packet one-way delay: 63.576 ms
  Loss rate: 0.52%
-- Flow 2:
  Average throughput: 40.92 Mbit/s
  95th percentile per-packet one-way delay: 63.397 ms
  Loss rate: 1.14%
-- Flow 3:
  Average throughput: 21.17 Mbit/s
  95th percentile per-packet one-way delay: 63.727 ms
  Loss rate: 0.59%
Run 4: Report of QUIC Cubic — Data Link

![Graph 1](chart1.png)

![Graph 2](chart2.png)
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 23:44:42
End at: 2018-06-19 23:45:12
Local clock offset: -0.153 ms
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 63.894 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 63.816 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 16.27 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.74%
Run 5: Report of QUIC Cubic — Data Link
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 00:08:12
End at: 2018-06-20 00:08:42
Local clock offset: -0.204 ms
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 45.72 Mbit/s
95th percentile per-packet one-way delay: 62.194 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 63.759 ms
Loss rate: 2.05%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 61.909 ms
Loss rate: 0.44%
Run 6: Report of QUIC Cubic — Data Link

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

The graphs illustrate the throughput and latency for three flows during Run 6. The throughput is measured in Mbps, while the latency is measured in milliseconds.

**Throughput Graph:**
- **Flow 1** (ingress mean: 45.85 Mbps; egress mean: 45.72 Mbps)
- **Flow 2** (ingress mean: 32.42 Mbps; egress mean: 31.96 Mbps)
- **Flow 3** (ingress mean: 19.89 Mbps; egress mean: 20.05 Mbps)

**Latency Graph:**
- **Flow 1** (95th percentile: 62.19 ms)
- **Flow 2** (95th percentile: 63.76 ms)
- **Flow 3** (95th percentile: 61.91 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-20 00:31:29
End at: 2018-06-20 00:31:59
Local clock offset: -0.052 ms
Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.10 Mbit/s
95th percentile per-packet one-way delay: 63.836 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 36.56 Mbit/s
95th percentile per-packet one-way delay: 63.748 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 62.133 ms
Loss rate: 0.00%
Run 7: Report of QUIC Cubic — Data Link

![Graph showing throughput and packet delay over time for different flows.](image_url)
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-20 00:54:54
End at: 2018-06-20 00:55:24
Local clock offset: -0.064 ms
Remote clock offset: -1.369 ms

# Below is generated by plot.py at 2018-06-20 04:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 65.139 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 44.39 Mbit/s
95th percentile per-packet one-way delay: 65.113 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 65.197 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 63.242 ms
Loss rate: 2.15%
Run 8: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 44.48 Mbit/s)
- Flow 1 egress (mean 44.39 Mbit/s)
- Flow 2 ingress (mean 31.84 Mbit/s)
- Flow 2 egress (mean 31.97 Mbit/s)
- Flow 3 ingress (mean 19.15 Mbit/s)
- Flow 3 egress (mean 16.97 Mbit/s)
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-20 01:18:17
End at: 2018-06-20 01:18:47
Local clock offset: -0.046 ms
Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 61.709 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 27.91 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 63.522 ms
Loss rate: 0.71%
Run 9: Report of QUIC Cubic — Data Link
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-20 01:41:41
End at: 2018-06-20 01:42:11
Local clock offset: 0.048 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
   -- Total of 3 flows:
   Average throughput: 77.56 Mbit/s
   95th percentile per-packet one-way delay: 63.936 ms
   Loss rate: 0.75%
   -- Flow 1:
   Average throughput: 47.14 Mbit/s
   95th percentile per-packet one-way delay: 63.960 ms
   Loss rate: 0.60%
   -- Flow 2:
   Average throughput: 38.27 Mbit/s
   95th percentile per-packet one-way delay: 63.885 ms
   Loss rate: 1.17%
   -- Flow 3:
   Average throughput: 15.55 Mbit/s
   95th percentile per-packet one-way delay: 63.845 ms
   Loss rate: 0.00%
Run 10: Report of QUIC Cubic — Data Link
Run 1: Statistics of SCReAM

Local clock offset: 0.573 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.717 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.269 ms
Loss rate: 1.08%
Run 1: Report of SCReAM — Data Link

![Throughput and Delay Graphs](image1.png)

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)

Delay (ms):
- Flow 1 (95th percentile 61.72 ms)
- Flow 2 (95th percentile 63.73 ms)
- Flow 3 (95th percentile 63.27 ms)
Run 2: Statistics of SCReAM

Local clock offset: -0.031 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.810 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.908 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.700 ms
Loss rate: 1.08%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

End at: 2018-06-19 23:10:28
Local clock offset: -0.202 ms
Remote clock offset: -1.104 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 0.43 Mbit/s
   95th percentile per-packet one-way delay: 64.827 ms
   Loss rate: 0.58%
   - Flow 1:
     Average throughput: 0.22 Mbit/s
     95th percentile per-packet one-way delay: 64.714 ms
     Loss rate: 0.38%
   - Flow 2:
     Average throughput: 0.22 Mbit/s
     95th percentile per-packet one-way delay: 62.805 ms
     Loss rate: 0.61%
   - Flow 3:
     Average throughput: 0.22 Mbit/s
     95th percentile per-packet one-way delay: 65.002 ms
     Loss rate: 1.08%
Run 3: Report of SCReAM — Data Link

![Graphs showing throughput and per-packet-consumer delay over time.](image-url)

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

- **Per-packet-consumer delay (ms):**
  - Flow 1 (95th percentile 64.71 ms)
  - Flow 2 (95th percentile 62.80 ms)
  - Flow 3 (95th percentile 65.00 ms)
Run 4: Statistics of SCReAM

Local clock offset: -0.112 ms  
Remote clock offset: 1.254 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 62.400 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.430 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.355 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.546 ms
Loss rate: 1.45%
Run 4: Report of SCReAM — Data Link
Run 5: Statistics of SCReAM

Start at: 2018-06-19 23:56:52
Local clock offset: -0.105 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 63.768 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.784 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.718 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.696 ms
  Loss rate: 1.08%
Run 6: Statistics of SCReAM

Start at: 2018-06-20 00:20:27
End at: 2018-06-20 00:20:57
Local clock offset: -0.044 ms
Remote clock offset: -1.289 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 65.126 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.147 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 64.882 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.136 ms
  Loss rate: 1.08%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-06-20 00:43:28
End at: 2018-06-20 00:43:58
Local clock offset: -0.029 ms
Remote clock offset: -0.216 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 63.937 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.903 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.976 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 63.798 ms
  Loss rate: 1.10%
Run 7: Report of SCReAM — Data Link

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

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

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

- Flow 1 (95th percentile 63.90 ms)
- Flow 2 (95th percentile 63.98 ms)
- Flow 3 (95th percentile 63.80 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-20 01:07:02
End at: 2018-06-20 01:07:32
Local clock offset: -0.056 ms
Remote clock offset: -1.337 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 65.072 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.067 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.068 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 65.108 ms
  Loss rate: 1.10%
Run 8: Report of SCReAM — Data Link

![Graph showing network traffic over time with legends for different flow rates and packet sizes.]

- Flow 1 ingress (mean 0.22 Mb/s)
- Flow 1 egress (mean 0.22 Mb/s)
- Flow 2 ingress (mean 0.22 Mb/s)
- Flow 2 egress (mean 0.22 Mb/s)
- Flow 3 ingress (mean 0.22 Mb/s)
- Flow 3 egress (mean 0.22 Mb/s)
Run 9: Statistics of SCReAM

Start at: 2018-06-20 01:30:33
End at: 2018-06-20 01:31:03
Local clock offset: 0.021 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.832 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.877 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.504 ms
Loss rate: 1.08%
Run 9: Report of SCReAM — Data Link

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**Throughput (Mbps)**

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

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

![Graph showing per-packet round-trip delay (ms) over time for different flows.]

---

*Flow 1 (95th percentile 63.88 ms)  Flow 2 (95th percentile 63.71 ms)  Flow 3 (95th percentile 63.50 ms)*
Run 10: Statistics of SCReAM

Start at: 2018-06-20 01:54:00
End at: 2018-06-20 01:54:30
Local clock offset: 0.05 ms
Remote clock offset: 1.133 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 62.631 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 62.561 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 62.689 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 62.513 ms
  Loss rate: 1.45%
Run 10: Report of SCReAM — Data Link
Run 1: Statistics of Sprout

Local clock offset: 0.581 ms
Remote clock offset: -1.065 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 64.937 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 64.938 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 64.912 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 64.946 ms
Loss rate: 1.00%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

End at: 2018-06-19 22:40:54
Local clock offset: 0.09 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.25 Mbit/s
  95th percentile per-packet one-way delay: 63.672 ms
  Loss rate: 0.30%
-- Flow 1:
  Average throughput: 0.56 Mbit/s
  95th percentile per-packet one-way delay: 63.662 ms
  Loss rate: 0.13%
-- Flow 2:
  Average throughput: 0.73 Mbit/s
  95th percentile per-packet one-way delay: 63.718 ms
  Loss rate: 0.24%
-- Flow 3:
  Average throughput: 0.61 Mbit/s
  95th percentile per-packet one-way delay: 63.617 ms
  Loss rate: 0.94%
Run 2: Report of Sprout — Data Link

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

Legend:
- Flow 1 ingress (mean 0.56 Mbit/s)
- Flow 1 egress (mean 0.56 Mbit/s)
- Flow 2 ingress (mean 0.73 Mbit/s)
- Flow 2 egress (mean 0.73 Mbit/s)
- Flow 3 ingress (mean 0.61 Mbit/s)
- Flow 3 egress (mean 0.61 Mbit/s)
Run 3: Statistics of Sprout

Start at: 2018-06-19 23:03:45
End at: 2018-06-19 23:04:15
Local clock offset: -0.241 ms
Remote clock offset: -1.317 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.32 Mbit/s
  95th percentile per-packet one-way delay: 65.326 ms
  Loss rate: 1.60%
-- Flow 1:
  Average throughput: 0.79 Mbit/s
  95th percentile per-packet one-way delay: 65.291 ms
  Loss rate: 0.46%
-- Flow 2:
  Average throughput: 0.44 Mbit/s
  95th percentile per-packet one-way delay: 65.294 ms
  Loss rate: 1.73%
-- Flow 3:
  Average throughput: 0.75 Mbit/s
  95th percentile per-packet one-way delay: 65.425 ms
  Loss rate: 5.00%
Run 3: Report of Sprout — Data Link

![Graph 1: Throughput (Mbps)]

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

Note: Graph 1 shows the throughput in Mbps over time for different flows, with mean values in parentheses. Graph 2 displays the per-packet one-way delay in milliseconds for each flow, with 95th percentile values provided.
Run 4: Statistics of Sprout

Start at: 2018-06-19 23:27:00
End at: 2018-06-19 23:27:30
Local clock offset: -0.134 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 64.326 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 64.285 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 64.396 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 63.840 ms
Loss rate: 0.62%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-06-19 23:50:34
End at: 2018-06-19 23:51:04
Local clock offset: -0.169 ms
Remote clock offset: 0.147 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 4.74 Mbit/s
  95th percentile per-packet one-way delay: 63.710 ms
  Loss rate: 0.21%
-- Flow 1:
  Average throughput: 1.38 Mbit/s
  95th percentile per-packet one-way delay: 63.693 ms
  Loss rate: 0.14%
-- Flow 2:
  Average throughput: 4.54 Mbit/s
  95th percentile per-packet one-way delay: 63.739 ms
  Loss rate: 0.25%
-- Flow 3:
  Average throughput: 1.06 Mbit/s
  95th percentile per-packet one-way delay: 62.085 ms
  Loss rate: 0.11%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-06-20 00:14:13
End at: 2018-06-20 00:14:43
Local clock offset: -0.131 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 2.95 Mbit/s
  95th percentile per-packet one-way delay: 64.387 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 1.94 Mbit/s
  95th percentile per-packet one-way delay: 64.473 ms
  Loss rate: 0.10%
-- Flow 2:
  Average throughput: 1.29 Mbit/s
  95th percentile per-packet one-way delay: 64.001 ms
  Loss rate: 1.42%
-- Flow 3:
  Average throughput: 0.49 Mbit/s
  95th percentile per-packet one-way delay: 63.880 ms
  Loss rate: 1.67%
Run 6: Report of Sprout — Data Link

![Graph showing throughput and packet delay over time]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 1.93 Mbps)
  - Flow 1 egress (mean 1.94 Mbps)
  - Flow 2 ingress (mean 1.30 Mbps)
  - Flow 2 egress (mean 1.29 Mbps)
  - Flow 3 ingress (mean 0.49 Mbps)
  - Flow 3 egress (mean 0.49 Mbps)

- **Packet Loss:**
  - Flow 1 (95th percentile 64.47 ms)
  - Flow 2 (95th percentile 64.00 ms)
  - Flow 3 (95th percentile 63.88 ms)
Run 7: Statistics of Sprout

Start at: 2018-06-20 00:37:13
End at: 2018-06-20 00:37:43
Local clock offset: -0.042 ms
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.73 Mbit/s
95th percentile per-packet one-way delay: 64.178 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 63.918 ms
Loss rate: 5.69%
-- Flow 2:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 64.231 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 63.884 ms
Loss rate: 2.75%
Run 7: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 0.44 Mbps)
- Flow 1 egress (mean 0.42 Mbps)
- Flow 2 ingress (mean 1.45 Mbps)
- Flow 2 egress (mean 1.46 Mbps)
- Flow 3 ingress (mean 1.06 Mbps)
- Flow 3 egress (mean 1.04 Mbps)

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

- Flow 1 (95th percentile 63.92 ms)
- Flow 2 (95th percentile 64.23 ms)
- Flow 3 (95th percentile 63.88 ms)
Run 8: Statistics of Sprout

Start at: 2018-06-20 01:00:45
End at: 2018-06-20 01:01:15
Local clock offset: -0.047 ms
Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1.00 Mbit/s
  95th percentile per-packet one-way delay: 63.744 ms
  Loss rate: 0.58%
-- Flow 1:
  Average throughput: 0.58 Mbit/s
  95th percentile per-packet one-way delay: 63.705 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 0.35 Mbit/s
  95th percentile per-packet one-way delay: 63.610 ms
  Loss rate: 1.00%
-- Flow 3:
  Average throughput: 0.57 Mbit/s
  95th percentile per-packet one-way delay: 63.900 ms
  Loss rate: 0.20%
Run 8: Report of Sprout — Data Link

[Graphs showing throughput and per-packet round-trip time over time for different flows.]
Run 9: Statistics of Sprout

Start at: 2018-06-20 01:24:13
End at: 2018-06-20 01:24:43
Local clock offset: -0.025 ms
Remote clock offset: -0.287 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 64.193 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 64.161 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 64.143 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 64.390 ms
Loss rate: 0.57%
Run 9: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 1.04 Mbit/s)
- Flow 1 egress (mean 1.04 Mbit/s)
- Flow 2 ingress (mean 2.05 Mbit/s)
- Flow 2 egress (mean 2.07 Mbit/s)
- Flow 3 ingress (mean 0.82 Mbit/s)
- Flow 3 egress (mean 0.83 Mbit/s)

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

- Flow 1 (95th percentile 64.16 ms)
- Flow 2 (95th percentile 64.14 ms)
- Flow 3 (95th percentile 64.39 ms)
Run 10: Statistics of Sprout

Start at: 2018-06-20 01:47:40
End at: 2018-06-20 01:48:10
Local clock offset: 0.059 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-20 04:16:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 64.154 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 64.215 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.53 Mbit/s
95th percentile per-packet one-way delay: 64.033 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 63.888 ms
Loss rate: 2.23%
Run 10: Report of Sprout — Data Link
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 22:26:01
End at: 2018-06-19 22:26:31
Local clock offset: 0.642 ms
Remote clock offset: 1.164 ms

# Below is generated by plot.py at 2018-06-20 04:22:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.83 Mbit/s
95th percentile per-packet one-way delay: 66.946 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 132.94 Mbit/s
95th percentile per-packet one-way delay: 62.582 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 119.27 Mbit/s
95th percentile per-packet one-way delay: 68.667 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 184.45 Mbit/s
95th percentile per-packet one-way delay: 79.159 ms
Loss rate: 1.55%
Run 1: Report of TaoVA-100x — Data Link
Run 2: Statistics of TaoVA-100x

Local clock offset: -0.137 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-20 04:22:07
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 277.60 Mbit/s
  95th percentile per-packet one-way delay: 67.969 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 154.41 Mbit/s
  95th percentile per-packet one-way delay: 67.400 ms
  Loss rate: 0.48%
-- Flow 2:
  Average throughput: 121.51 Mbit/s
  95th percentile per-packet one-way delay: 66.319 ms
  Loss rate: 0.84%
-- Flow 3:
  Average throughput: 128.76 Mbit/s
  95th percentile per-packet one-way delay: 71.299 ms
  Loss rate: 0.89%
Run 2: Report of TaoVA-100x — Data Link

![Graph showing throughput and round trip time over time]

- Flow 1 ingress (mean 154.50 Mbit/s)
- Flow 1 egress (mean 154.41 Mbit/s)
- Flow 2 ingress (mean 121.79 Mbit/s)
- Flow 2 egress (mean 121.51 Mbit/s)
- Flow 3 ingress (mean 128.27 Mbit/s)
- Flow 3 egress (mean 128.76 Mbit/s)

![Graph showing per-packet round trip time over time]

- Flow 1 (95th percentile 67.40 ms)
- Flow 2 (95th percentile 66.32 ms)
- Flow 3 (95th percentile 71.30 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 23:12:44
Local clock offset: -0.108 ms
Remote clock offset: -1.303 ms

# Below is generated by plot.py at 2018-06-20 04:25:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 339.88 Mbit/s
  95th percentile per-packet one-way delay: 66.400 ms
  Loss rate: 0.59%
-- Flow 1:
  Average throughput: 201.92 Mbit/s
  95th percentile per-packet one-way delay: 66.121 ms
  Loss rate: 0.52%
-- Flow 2:
  Average throughput: 200.87 Mbit/s
  95th percentile per-packet one-way delay: 66.800 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 13.31 Mbit/s
  95th percentile per-packet one-way delay: 65.187 ms
  Loss rate: 1.37%
Run 3: Report of TaoVA-100x — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 202.12 Mbit/s)
Flow 1 egress (mean 201.92 Mbit/s)
Flow 2 ingress (mean 200.94 Mbit/s)
Flow 2 egress (mean 200.67 Mbit/s)
Flow 3 ingress (mean 13.33 Mbit/s)
Flow 3 egress (mean 13.31 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 66.12 ms)
Flow 2 (95th percentile 66.80 ms)
Flow 3 (95th percentile 65.19 ms)
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 23:36:03
End at: 2018-06-19 23:36:33
Local clock offset: -0.115 ms
Remote clock offset: -0.21 ms

# Below is generated by plot.py at 2018-06-20 04:25:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 337.81 Mbit/s
  95th percentile per-packet one-way delay: 65.720 ms
  Loss rate: 0.50%
-- Flow 1:
  Average throughput: 190.36 Mbit/s
  95th percentile per-packet one-way delay: 66.894 ms
  Loss rate: 0.22%
-- Flow 2:
  Average throughput: 145.43 Mbit/s
  95th percentile per-packet one-way delay: 64.116 ms
  Loss rate: 0.39%
-- Flow 3:
  Average throughput: 154.32 Mbit/s
  95th percentile per-packet one-way delay: 64.957 ms
  Loss rate: 1.77%
Run 5: Statistics of TaoVA-100x

End at: 2018-06-20 00:00:08
Local clock offset: -0.116 ms
Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-06-20 04:25:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 304.25 Mbit/s
  95th percentile per-packet one-way delay: 69.317 ms
  Loss rate: 0.22%
-- Flow 1:
  Average throughput: 178.78 Mbit/s
  95th percentile per-packet one-way delay: 69.986 ms
  Loss rate: 0.25%
-- Flow 2:
  Average throughput: 181.99 Mbit/s
  95th percentile per-packet one-way delay: 68.934 ms
  Loss rate: 0.14%
-- Flow 3:
  Average throughput: 13.54 Mbit/s
  95th percentile per-packet one-way delay: 63.702 ms
  Loss rate: 1.31%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-20 00:23:11
End at: 2018-06-20 00:23:41
Local clock offset: -0.07 ms
Remote clock offset: -0.275 ms

# Below is generated by plot.py at 2018-06-20 04:25:11
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 257.28 Mbit/s
 95th percentile per-packet one-way delay: 64.822 ms
 Loss rate: 0.74%
 -- Flow 1:
 Average throughput: 87.32 Mbit/s
 95th percentile per-packet one-way delay: 64.038 ms
 Loss rate: 0.44%
 -- Flow 2:
 Average throughput: 206.78 Mbit/s
 95th percentile per-packet one-way delay: 65.028 ms
 Loss rate: 0.56%
 -- Flow 3:
 Average throughput: 98.72 Mbit/s
 95th percentile per-packet one-way delay: 65.935 ms
 Loss rate: 2.29%
Run 6: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 87.33 Mbps)  Flow 1 egress (mean 87.32 Mbps)
Flow 2 ingress (mean 206.61 Mbps)  Flow 2 egress (mean 206.78 Mbps)
Flow 3 ingress (mean 99.77 Mbps)  Flow 3 egress (mean 98.72 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 64.04 ms)  Flow 2 (95th percentile 65.03 ms)  Flow 3 (95th percentile 65.94 ms)
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-20 00:46:14
End at: 2018-06-20 00:46:44
Local clock offset: -0.017 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2018-06-20 04:28:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.08 Mbit/s
95th percentile per-packet one-way delay: 68.787 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 206.54 Mbit/s
95th percentile per-packet one-way delay: 69.288 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 158.15 Mbit/s
95th percentile per-packet one-way delay: 66.496 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 144.08 Mbit/s
95th percentile per-packet one-way delay: 74.494 ms
Loss rate: 1.65%
Run 7: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress** (mean 206.55 Mbit/s)
- **Flow 1 egress** (mean 206.54 Mbit/s)
- **Flow 2 ingress** (mean 157.71 Mbit/s)
- **Flow 2 egress** (mean 158.15 Mbit/s)
- **Flow 3 ingress** (mean 144.63 Mbit/s)
- **Flow 3 egress** (mean 144.08 Mbit/s)

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

- **Flow 1** (95th percentile 69.29 ms)
- **Flow 2** (95th percentile 66.50 ms)
- **Flow 3** (95th percentile 74.49 ms)
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-20 01:09:48  
End at: 2018-06-20 01:10:18  
Local clock offset: -0.04 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-20 04:28:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 304.09 Mbit/s  
95th percentile per-packet one-way delay: 67.403 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 157.34 Mbit/s  
95th percentile per-packet one-way delay: 68.479 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 155.84 Mbit/s  
95th percentile per-packet one-way delay: 66.453 ms  
Loss rate: 0.50%  
-- Flow 3:  
Average throughput: 130.98 Mbit/s  
95th percentile per-packet one-way delay: 66.510 ms  
Loss rate: 1.40%
Run 8: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 157.39 Mbps)
- Flow 1 egress (mean 157.34 Mbps)
- Flow 2 ingress (mean 155.63 Mbps)
- Flow 2 egress (mean 155.84 Mbps)
- Flow 3 ingress (mean 131.14 Mbps)
- Flow 3 egress (mean 130.98 Mbps)

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

- Flow 1 (95th percentile 68.48 ms)
- Flow 2 (95th percentile 66.45 ms)
- Flow 3 (95th percentile 66.51 ms)
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-20 01:33:18
End at: 2018-06-20 01:33:48
Local clock offset: 0.023 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-20 04:34:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.87 Mbit/s
95th percentile per-packet one-way delay: 65.123 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 146.34 Mbit/s
95th percentile per-packet one-way delay: 64.496 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 179.91 Mbit/s
95th percentile per-packet one-way delay: 65.023 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 133.22 Mbit/s
95th percentile per-packet one-way delay: 68.115 ms
Loss rate: 0.13%
Run 9: Report of TaoVA-100x — Data Link

![Graph 1: Throughput (Mbps)]

- **Flow 1 ingress** (mean 145.77 Mbps)
- **Flow 1 egress** (mean 146.34 Mbps)
- **Flow 2 ingress** (mean 180.11 Mbps)
- **Flow 2 egress** (mean 179.91 Mbps)
- **Flow 3 ingress** (mean 131.73 Mbps)
- **Flow 3 egress** (mean 133.22 Mbps)

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

- **Flow 1** (95th percentile 64.50 ms)
- **Flow 2** (95th percentile 65.02 ms)
- **Flow 3** (95th percentile 66.11 ms)
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-20 01:56:46
End at: 2018-06-20 01:57:16
Local clock offset: 0.017 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.16 Mbit/s
95th percentile per-packet one-way delay: 66.797 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 165.14 Mbit/s
95th percentile per-packet one-way delay: 66.226 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 170.03 Mbit/s
95th percentile per-packet one-way delay: 66.543 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 139.45 Mbit/s
95th percentile per-packet one-way delay: 69.449 ms
Loss rate: 1.01%
Run 10: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 164.82 Mbps)  
Flow 1 egress (mean 165.14 Mbps)  
Flow 2 ingress (mean 170.38 Mbps)  
Flow 2 egress (mean 170.03 Mbps)  
Flow 3 ingress (mean 139.06 Mbps)  
Flow 3 egress (mean 139.45 Mbps)

Packet loss (one-way delay (ms))

Time (s)

Flow 1 (95th percentile 66.23 ms)  
Flow 2 (95th percentile 66.54 ms)  
Flow 3 (95th percentile 69.45 ms)
Run 1: Statistics of TCP Vegas

Local clock offset: 0.633 ms
Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 243.21 Mbit/s
95th percentile per-packet one-way delay: 72.963 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 182.31 Mbit/s
95th percentile per-packet one-way delay: 73.256 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 35.94 Mbit/s
95th percentile per-packet one-way delay: 68.430 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 113.63 Mbit/s
95th percentile per-packet one-way delay: 71.618 ms
Loss rate: 0.49%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 22:45:21
End at: 2018-06-19 22:45:51
Local clock offset: -0.029 ms
Remote clock offset: 0.052 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.68 Mbit/s
95th percentile per-packet one-way delay: 75.401 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 74.191 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 168.48 Mbit/s
95th percentile per-packet one-way delay: 76.031 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 169.15 Mbit/s
95th percentile per-packet one-way delay: 74.110 ms
Loss rate: 1.43%
Run 2: Report of TCP Vegas — Data Link

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

**Throughput (Mbps):**
- Flow 1 ingress (mean 49.07 Mbps)
- Flow 1 egress (mean 49.04 Mbps)
- Flow 2 ingress (mean 167.83 Mbps)
- Flow 2 egress (mean 166.48 Mbps)
- Flow 3 ingress (mean 169.31 Mbps)
- Flow 3 egress (mean 169.15 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 74.19 ms)
- Flow 2 (95th percentile 76.03 ms)
- Flow 3 (95th percentile 74.11 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 23:08:42
Local clock offset: -0.166 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 126.32 Mbit/s
  95th percentile per-packet one-way delay: 65.032 ms
  Loss rate: 0.75%
-- Flow 1:
  Average throughput: 70.42 Mbit/s
  95th percentile per-packet one-way delay: 64.560 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 19.74 Mbit/s
  95th percentile per-packet one-way delay: 64.464 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 130.07 Mbit/s
  95th percentile per-packet one-way delay: 65.552 ms
  Loss rate: 1.39%
Run 3: Report of TCP Vegas — Data Link
Run 4: Statistics of TCP Vegas

End at: 2018-06-19 23:32:27
Local clock offset: -0.105 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.31 Mbit/s
95th percentile per-packet one-way delay: 75.911 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 180.70 Mbit/s
95th percentile per-packet one-way delay: 76.025 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 69.936 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 19.97 Mbit/s
95th percentile per-packet one-way delay: 71.192 ms
Loss rate: 1.58%
Run 4: Report of TCP Vegas — Data Link

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

Legend:
- Flow 1 ingress (mean 180.78 Mbit/s)
- Flow 1 egress (mean 180.70 Mbit/s)
- Flow 2 ingress (mean 6.41 Mbit/s)
- Flow 2 egress (mean 6.37 Mbit/s)
- Flow 3 ingress (mean 20.03 Mbit/s)
- Flow 3 egress (mean 19.97 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 76.03 ms)
- Flow 2 (95th percentile 69.94 ms)
- Flow 3 (95th percentile 71.19 ms)
Run 5: Statistics of TCP Vegas

End at: 2018-06-19 23:56:01
Local clock offset: -0.118 ms
Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.23 Mbit/s
95th percentile per-packet one-way delay: 74.107 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 177.66 Mbit/s
95th percentile per-packet one-way delay: 74.466 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 68.100 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 60.13 Mbit/s
95th percentile per-packet one-way delay: 69.965 ms
Loss rate: 1.31%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 00:19:10
End at: 2018-06-20 00:19:40
Local clock offset: -0.105 ms
Remote clock offset: 1.29 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 154.68 Mbit/s
95th percentile per-packet one-way delay: 72.912 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 36.51 Mbit/s
95th percentile per-packet one-way delay: 68.912 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 176.35 Mbit/s
95th percentile per-packet one-way delay: 73.392 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 68.347 ms
Loss rate: 3.06%
Run 6: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress** (mean 36.53 Mbps)
- **Flow 1 egress** (mean 36.51 Mbps)
- **Flow 2 ingress** (mean 176.44 Mbps)
- **Flow 2 egress** (mean 176.35 Mbps)
- **Flow 3 ingress** (mean 3.32 Mbps)
- **Flow 3 egress** (mean 3.26 Mbps)

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

- **Flow 1** (95th percentile 68.91 ms)
- **Flow 2** (95th percentile 73.39 ms)
- **Flow 3** (95th percentile 68.35 ms)

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Run 7: Statistics of TCP Vegas

Start at: 2018-06-20 00:42:09
End at: 2018-06-20 00:42:39
Local clock offset: -0.088 ms
Remote clock offset: -0.298 ms

# Below is generated by plot.py at 2018-06-20 04:34:59
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 189.31 Mbit/s
  95th percentile per-packet one-way delay: 73.460 ms
  Loss rate: 0.82%
-- Flow 1:
  Average throughput: 56.73 Mbit/s
  95th percentile per-packet one-way delay: 69.908 ms
  Loss rate: 0.42%
-- Flow 2:
  Average throughput: 115.77 Mbit/s
  95th percentile per-packet one-way delay: 70.858 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 169.31 Mbit/s
  95th percentile per-packet one-way delay: 76.171 ms
  Loss rate: 1.44%
Run 7: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 56.74 Mb/s)
- Flow 1 egress (mean 56.73 Mb/s)
- Flow 2 ingress (mean 115.79 Mb/s)
- Flow 2 egress (mean 115.77 Mb/s)
- Flow 3 ingress (mean 169.65 Mb/s)
- Flow 3 egress (mean 169.31 Mb/s)
Run 8: Statistics of TCP Vegas

Start at: 2018-06-20 01:05:44
End at: 2018-06-20 01:06:14
Local clock offset: -0.042 ms
Remote clock offset: 1.314 ms

# Below is generated by plot.py at 2018-06-20 04:35:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.41 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 76.03 Mbit/s
95th percentile per-packet one-way delay: 63.286 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 74.08 Mbit/s
95th percentile per-packet one-way delay: 63.396 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 137.01 Mbit/s
95th percentile per-packet one-way delay: 65.168 ms
Loss rate: 1.43%
Run 8: Report of TCP Vegas — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 76.06 Mbps)
  - Flow 1 egress (mean 76.03 Mbps)
  - Flow 2 ingress (mean 74.06 Mbps)
  - Flow 2 egress (mean 74.08 Mbps)
  - Flow 3 ingress (mean 137.26 Mbps)
  - Flow 3 egress (mean 137.01 Mbps)

- **Per packet round-trip delay (ms):**
  - Flow 1 (95th percentile 63.29 ms)
  - Flow 2 (95th percentile 63.40 ms)
  - Flow 3 (95th percentile 65.17 ms)
Run 9: Statistics of TCP Vegas

Start at: 2018-06-20 01:29:10
End at: 2018-06-20 01:29:40
Local clock offset: 0.002 ms
Remote clock offset: -1.368 ms

# Below is generated by plot.py at 2018-06-20 04:35:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 235.10 Mbit/s
  95th percentile per-packet one-way delay: 76.204 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 89.58 Mbit/s
  95th percentile per-packet one-way delay: 68.910 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 162.80 Mbit/s
  95th percentile per-packet one-way delay: 77.675 ms
  Loss rate: 0.27%
-- Flow 3:
  Average throughput: 113.87 Mbit/s
  95th percentile per-packet one-way delay: 73.068 ms
  Loss rate: 1.38%
Run 9: Report of TCP Vegas — Data Link
Run 10: Statistics of TCP Vegas

Start at: 2018-06-20 01:52:38
End at: 2018-06-20 01:53:08
Local clock offset: 0.019 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-20 04:35:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 230.26 Mbit/s
  95th percentile per-packet one-way delay: 75.910 ms
  Loss rate: 0.57%
-- Flow 1:
  Average throughput: 179.32 Mbit/s
  95th percentile per-packet one-way delay: 76.545 ms
  Loss rate: 0.49%
-- Flow 2:
  Average throughput: 61.93 Mbit/s
  95th percentile per-packet one-way delay: 68.926 ms
  Loss rate: 0.72%
-- Flow 3:
  Average throughput: 29.59 Mbit/s
  95th percentile per-packet one-way delay: 69.713 ms
  Loss rate: 1.31%
Run 10: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 179.44 Mbit/s)
- Flow 1 egress (mean 179.32 Mbit/s)
- Flow 2 ingress (mean 61.98 Mbit/s)
- Flow 2 egress (mean 61.93 Mbit/s)
- Flow 3 ingress (mean 29.59 Mbit/s)
- Flow 3 egress (mean 29.59 Mbit/s)
Run 1: Statistics of Verus

Local clock offset: 0.62 ms
Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-06-20 04:40:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.37 Mbit/s
95th percentile per-packet one-way delay: 142.250 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 224.72 Mbit/s
95th percentile per-packet one-way delay: 144.430 ms
Loss rate: 2.65%
-- Flow 2:
Average throughput: 199.85 Mbit/s
95th percentile per-packet one-way delay: 136.771 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 129.92 Mbit/s
95th percentile per-packet one-way delay: 150.896 ms
Loss rate: 2.37%
Run 1: Report of Verus — Data Link

![Throughput Graph](image1)

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

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Run 2: Statistics of Verus

Local clock offset: -0.146 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-20 04:40:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 292.70 Mbit/s
  95th percentile per-packet one-way delay: 204.832 ms
  Loss rate: 3.40%
-- Flow 1:
  Average throughput: 180.24 Mbit/s
  95th percentile per-packet one-way delay: 165.514 ms
  Loss rate: 2.75%
-- Flow 2:
  Average throughput: 137.03 Mbit/s
  95th percentile per-packet one-way delay: 297.961 ms
  Loss rate: 5.24%
-- Flow 3:
  Average throughput: 74.97 Mbit/s
  95th percentile per-packet one-way delay: 243.324 ms
  Loss rate: 0.93%
Run 2: Report of Verus — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress (mean 184.43 Mbps)**
- **Flow 1 egress (mean 180.24 Mbps)**
- **Flow 2 ingress (mean 142.94 Mbps)**
- **Flow 2 egress (mean 137.03 Mbps)**
- **Flow 3 ingress (mean 66.98 Mbps)**
- **Flow 3 egress (mean 74.97 Mbps)**

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

- **Flow 1 (95th percentile 165.51 ms)**
- **Flow 2 (95th percentile 297.96 ms)**
- **Flow 3 (95th percentile 243.32 ms)**
Run 3: Statistics of Verus

End at: 2018-06-19 23:16:41
Local clock offset: -0.149 ms
Remote clock offset: -1.309 ms

# Below is generated by plot.py at 2018-06-20 04:40:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 349.09 Mbit/s
  95th percentile per-packet one-way delay: 147.502 ms
  Loss rate: 2.46%
-- Flow 1:
  Average throughput: 216.25 Mbit/s
  95th percentile per-packet one-way delay: 159.356 ms
  Loss rate: 3.13%
-- Flow 2:
  Average throughput: 167.45 Mbit/s
  95th percentile per-packet one-way delay: 123.159 ms
  Loss rate: 0.84%
-- Flow 3:
  Average throughput: 67.82 Mbit/s
  95th percentile per-packet one-way delay: 300.876 ms
  Loss rate: 3.83%
Run 3: Report of Verus — Data Link

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

- Flow 1 ingress (mean 221.28 Mbps)
- Flow 1 egress (mean 216.25 Mbps)
- Flow 2 ingress (mean 167.47 Mbps)
- Flow 2 egress (mean 167.45 Mbps)
- Flow 3 ingress (mean 69.34 Mbps)
- Flow 3 egress (mean 67.82 Mbps)

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

- Flow 1 (95th percentile 159.36 ms)
- Flow 2 (95th percentile 123.16 ms)
- Flow 3 (95th percentile 300.88 ms)

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Run 4: Statistics of Verus

Local clock offset: -0.1 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-20 04:41:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 372.04 Mbit/s
  95th percentile per-packet one-way delay: 205.272 ms
  Loss rate: 2.36%
-- Flow 1:
  Average throughput: 225.30 Mbit/s
  95th percentile per-packet one-way delay: 166.927 ms
  Loss rate: 1.51%
-- Flow 2:
  Average throughput: 167.19 Mbit/s
  95th percentile per-packet one-way delay: 269.706 ms
  Loss rate: 4.21%
-- Flow 3:
  Average throughput: 109.31 Mbit/s
  95th percentile per-packet one-way delay: 234.888 ms
  Loss rate: 1.80%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

Start at: 2018-06-20 00:03:02
End at: 2018-06-20 00:03:32
Local clock offset: -0.176 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-06-20 04:41:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.16 Mbit/s
95th percentile per-packet one-way delay: 235.952 ms
Loss rate: 6.85%
-- Flow 1:
Average throughput: 200.36 Mbit/s
95th percentile per-packet one-way delay: 176.379 ms
Loss rate: 3.30%
-- Flow 2:
Average throughput: 125.29 Mbit/s
95th percentile per-packet one-way delay: 222.089 ms
Loss rate: 8.08%
-- Flow 3:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 331.030 ms
Loss rate: 23.57%
Run 5: Report of Verus — Data Link

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

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

Flow 1 ingress (mean 206.33 Mbit/s)  Flow 1 egress (mean 200.36 Mbit/s)
Flow 2 ingress (mean 135.43 Mbit/s)  Flow 2 egress (mean 125.29 Mbit/s)
Flow 3 ingress (mean 112.64 Mbit/s)  Flow 3 egress (mean 87.14 Mbit/s)
Run 6: Statistics of Verus

Start at: 2018-06-20 00:26:26
End at: 2018-06-20 00:26:56
Local clock offset: -0.021 ms
Remote clock offset: -1.409 ms

# Below is generated by plot.py at 2018-06-20 04:41:17
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 308.86 Mbit/s
  95th percentile per-packet one-way delay: 184.880 ms
  Loss rate: 2.77%
-- Flow 1:
  Average throughput: 167.09 Mbit/s
  95th percentile per-packet one-way delay: 225.397 ms
  Loss rate: 2.70%
-- Flow 2:
  Average throughput: 160.50 Mbit/s
  95th percentile per-packet one-way delay: 132.308 ms
  Loss rate: 1.16%
-- Flow 3:
  Average throughput: 108.64 Mbit/s
  95th percentile per-packet one-way delay: 209.073 ms
  Loss rate: 7.58%

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Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-20 00:49:47
End at: 2018-06-20 00:50:17
Local clock offset: 0.03 ms
Remote clock offset: 1.352 ms

# Below is generated by plot.py at 2018-06-20 04:41:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 314.11 Mbit/s
  95th percentile per-packet one-way delay: 220.349 ms
  Loss rate: 4.12%
-- Flow 1:
  Average throughput: 163.01 Mbit/s
  95th percentile per-packet one-way delay: 220.802 ms
  Loss rate: 3.99%
-- Flow 2:
  Average throughput: 163.91 Mbit/s
  95th percentile per-packet one-way delay: 186.203 ms
  Loss rate: 2.08%
-- Flow 3:
  Average throughput: 143.79 Mbit/s
  95th percentile per-packet one-way delay: 285.053 ms
  Loss rate: 9.47%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-06-20 01:13:08
End at: 2018-06-20 01:13:38
Local clock offset: -0.067 ms
Remote clock offset: -1.307 ms

# Below is generated by plot.py at 2018-06-20 04:42:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.06 Mbit/s
95th percentile per-packet one-way delay: 231.841 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 174.78 Mbit/s
95th percentile per-packet one-way delay: 213.121 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 169.95 Mbit/s
95th percentile per-packet one-way delay: 268.452 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 122.95 Mbit/s
95th percentile per-packet one-way delay: 208.567 ms
Loss rate: 5.36%
Run 8: Report of Verus — Data Link

Diagrams showing throughput and packet delay for different flows over time.
Run 9: Statistics of Verus

Start at: 2018-06-20 01:36:36
End at: 2018-06-20 01:37:06
Local clock offset: 0.027 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-20 04:44:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 317.08 Mbit/s
95th percentile per-packet one-way delay: 208.613 ms
Loss rate: 3.78%
-- Flow 1:
Average throughput: 159.23 Mbit/s
95th percentile per-packet one-way delay: 215.376 ms
Loss rate: 4.99%
-- Flow 2:
Average throughput: 190.55 Mbit/s
95th percentile per-packet one-way delay: 150.066 ms
Loss rate: 1.65%
-- Flow 3:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 320.918 ms
Loss rate: 5.95%
Run 9: Report of Verus — Data Link

Graph 1: Throughput (Mbps) vs. Time (s)
- Flow 1 ingress (mean 167.99 Mbps)
- Flow 1 egress (mean 159.23 Mbps)
- Flow 2 ingress (mean 192.52 Mbps)
- Flow 2 egress (mean 190.55 Mbps)
- Flow 3 ingress (mean 102.01 Mbps)
- Flow 3 egress (mean 97.18 Mbps)

Graph 2: Per-packet one-way delay (ms) vs. Time (s)
- Flow 1 (95th percentile 215.38 ms)
- Flow 2 (95th percentile 150.07 ms)
- Flow 3 (95th percentile 320.92 ms)
Run 10: Statistics of Verus

Start at: 2018-06-20 02:00:15
End at: 2018-06-20 02:00:45
Local clock offset: -0.029 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2018-06-20 04:46:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 359.61 Mbit/s
95th percentile per-packet one-way delay: 158.102 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 190.76 Mbit/s
95th percentile per-packet one-way delay: 164.102 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 190.45 Mbit/s
95th percentile per-packet one-way delay: 151.951 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 128.84 Mbit/s
95th percentile per-packet one-way delay: 148.178 ms
Loss rate: 2.57%
Run 10: Report of Verus — Data Link

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

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

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Run 1: Statistics of PCC-Vivace

Local clock offset: 0.648 ms
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-06-20 04:51:05
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 492.94 Mbit/s
  95th percentile per-packet one-way delay: 93.807 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 284.04 Mbit/s
  95th percentile per-packet one-way delay: 87.660 ms
  Loss rate: 0.43%
-- Flow 2:
  Average throughput: 274.38 Mbit/s
  95th percentile per-packet one-way delay: 147.185 ms
  Loss rate: 0.47%
-- Flow 3:
  Average throughput: 82.40 Mbit/s
  95th percentile per-packet one-way delay: 63.189 ms
  Loss rate: 1.74%
Run 1: Report of PCC-Vivace — Data Link

Throughput (Mbps):

- Flow 1 ingress (mean 284.07 Mbps)
- Flow 1 egress (mean 284.04 Mbps)
- Flow 2 ingress (mean 273.89 Mbps)
- Flow 2 egress (mean 274.38 Mbps)
- Flow 3 ingress (mean 82.96 Mbps)
- Flow 3 egress (mean 82.40 Mbps)

Packet one-way delay (ms):

- Flow 1 (95th percentile 87.66 ms)
- Flow 2 (95th percentile 147.19 ms)
- Flow 3 (95th percentile 63.19 ms)
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 22:51:02
Local clock offset: -0.118 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-06-20 04:51:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 502.44 Mbit/s
95th percentile per-packet one-way delay: 216.526 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 275.89 Mbit/s
95th percentile per-packet one-way delay: 166.478 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 262.10 Mbit/s
95th percentile per-packet one-way delay: 255.319 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 160.56 Mbit/s
95th percentile per-packet one-way delay: 375.929 ms
Loss rate: 3.76%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing network performance metrics over time.]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 277.35 Mbps)
  - Flow 1 egress (mean 275.89 Mbps)
  - Flow 2 ingress (mean 269.51 Mbps)
  - Flow 2 egress (mean 262.10 Mbps)
  - Flow 3 ingress (mean 164.87 Mbps)
  - Flow 3 egress (mean 160.56 Mbps)

- **Packet one-way delay (ms):**
  - Flow 1 (95th percentile 166.48 ms)
  - Flow 2 (95th percentile 255.32 ms)
  - Flow 3 (95th percentile 375.93 ms)
Run 3: Statistics of PCC-Vivace

End at: 2018-06-19 23:14:56
Local clock offset: -0.121 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-20 04:51:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 492.69 Mbit/s
95th percentile per-packet one-way delay: 181.852 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 270.68 Mbit/s
95th percentile per-packet one-way delay: 196.060 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 230.71 Mbit/s
95th percentile per-packet one-way delay: 137.355 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 210.68 Mbit/s
95th percentile per-packet one-way delay: 91.772 ms
Loss rate: 3.98%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

End at: 2018-06-19 23:38:14
Local clock offset: -0.148 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-06-20 04:51:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 485.26 Mbit/s
  95th percentile per-packet one-way delay: 154.807 ms
  Loss rate: 0.82%
-- Flow 1:
  Average throughput: 315.22 Mbit/s
  95th percentile per-packet one-way delay: 186.482 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 228.20 Mbit/s
  95th percentile per-packet one-way delay: 64.954 ms
  Loss rate: 0.86%
-- Flow 3:
  Average throughput: 56.76 Mbit/s
  95th percentile per-packet one-way delay: 63.536 ms
  Loss rate: 3.08%
Run 4: Report of PCC-Vivace — Data Link

![Throughput chart](chart1.png)

![Delays chart](chart2.png)
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-20 00:01:17
End at: 2018-06-20 00:01:47
Local clock offset: -0.078 ms
Remote clock offset: -0.271 ms

# Below is generated by plot.py at 2018-06-20 04:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 491.97 Mbit/s
95th percentile per-packet one-way delay: 259.169 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 270.54 Mbit/s
95th percentile per-packet one-way delay: 263.602 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 249.94 Mbit/s
95th percentile per-packet one-way delay: 167.951 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 169.88 Mbit/s
95th percentile per-packet one-way delay: 153.545 ms
Loss rate: 1.65%
Run 5: Report of PCC-Vivace — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 272.14 Mbit/s)  Flow 1 egress (mean 270.54 Mbit/s)
Flow 2 ingress (mean 249.82 Mbit/s)  Flow 2 egress (mean 249.94 Mbit/s)
Flow 3 ingress (mean 170.55 Mbit/s)  Flow 3 egress (mean 169.88 Mbit/s)

Per-packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 263.60 ms)  Flow 2 (95th percentile 167.95 ms)  Flow 3 (95th percentile 153.54 ms)
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 00:24:45
End at: 2018-06-20 00:25:15
Local clock offset: -0.058 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-20 04:51:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.70 Mbit/s
95th percentile per-packet one-way delay: 248.141 ms
Loss rate: 4.20%
-- Flow 1:
Average throughput: 233.36 Mbit/s
95th percentile per-packet one-way delay: 255.913 ms
Loss rate: 6.70%
-- Flow 2:
Average throughput: 208.39 Mbit/s
95th percentile per-packet one-way delay: 65.705 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 165.24 Mbit/s
95th percentile per-packet one-way delay: 86.763 ms
Loss rate: 1.47%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-20 00:47:58
End at: 2018-06-20 00:48:28
Local clock offset: -0.034 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-20 04:54:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 530.29 Mbit/s
95th percentile per-packet one-way delay: 244.879 ms
Loss rate: 3.28%
-- Flow 1:
Average throughput: 278.44 Mbit/s
95th percentile per-packet one-way delay: 192.900 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 307.98 Mbit/s
95th percentile per-packet one-way delay: 257.238 ms
Loss rate: 7.00%
-- Flow 3:
Average throughput: 144.96 Mbit/s
95th percentile per-packet one-way delay: 91.887 ms
Loss rate: 1.47%
Run 7: Report of PCC-Vivace — Data Link

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

- **Flow 1 ingress (mean 279.16 Mbit/s)**
- **Flow 1 egress (mean 278.44 Mbit/s)**
- **Flow 2 ingress (mean 329.02 Mbit/s)**
- **Flow 2 egress (mean 307.98 Mbit/s)**
- **Flow 3 ingress (mean 145.22 Mbit/s)**
- **Flow 3 egress (mean 144.96 Mbit/s)**

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

- **Flow 1 (95th percentile 192.90 ms)**
- **Flow 2 (95th percentile 257.24 ms)**
- **Flow 3 (95th percentile 91.89 ms)**
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-20 01:11:26
End at: 2018-06-20 01:11:56
Local clock offset: -0.058 ms
Remote clock offset: 1.15 ms

# Below is generated by plot.py at 2018-06-20 04:54:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.77 Mbit/s
95th percentile per-packet one-way delay: 163.144 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 208.05 Mbit/s
95th percentile per-packet one-way delay: 70.271 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 216.69 Mbit/s
95th percentile per-packet one-way delay: 158.037 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 253.53 Mbit/s
95th percentile per-packet one-way delay: 198.332 ms
Loss rate: 2.03%
Run 8: Report of PCC-Vivace — Data Link

![Throughput Graph]

![Delay Graph]
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-20 01:34:57
End at: 2018-06-20 01:35:27
Local clock offset: 0.028 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-06-20 04:54:49
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 401.08 Mbit/s
  95th percentile per-packet one-way delay: 100.723 ms
  Loss rate: 0.72%
-- Flow 1:
  Average throughput: 248.49 Mbit/s
  95th percentile per-packet one-way delay: 163.096 ms
  Loss rate: 0.50%
-- Flow 2:
  Average throughput: 200.19 Mbit/s
  95th percentile per-packet one-way delay: 63.779 ms
  Loss rate: 0.36%
-- Flow 3:
  Average throughput: 60.41 Mbit/s
  95th percentile per-packet one-way delay: 64.473 ms
  Loss rate: 5.66%
Run 9: Report of PCC-Vivace — Data Link

![Graphs showing data link throughput and per-packet one-way delay over time.](image-url)

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 248.71 Mbps) vs Flow 1 egress (mean 248.49 Mbps)
  - Flow 2 ingress (mean 199.66 Mbps) vs Flow 2 egress (mean 200.19 Mbps)
  - Flow 3 ingress (mean 63.22 Mbps) vs Flow 3 egress (mean 60.41 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 163.10 ms) vs Flow 2 (95th percentile 63.78 ms) vs Flow 3 (95th percentile 64.47 ms)
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-20 01:58:27
End at: 2018-06-20 01:58:57
Local clock offset: 0.005 ms
Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 513.65 Mbit/s
95th percentile per-packet one-way delay: 189.034 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 279.85 Mbit/s
95th percentile per-packet one-way delay: 180.460 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 267.58 Mbit/s
95th percentile per-packet one-way delay: 220.113 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 172.01 Mbit/s
95th percentile per-packet one-way delay: 70.029 ms
Loss rate: 1.66%
Run 10: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 280.24 Mbit/s)
- Flow 1 egress (mean 279.85 Mbit/s)
- Flow 2 ingress (mean 267.83 Mbit/s)
- Flow 2 egress (mean 267.58 Mbit/s)
- Flow 3 ingress (mean 172.71 Mbit/s)
- Flow 3 egress (mean 172.01 Mbit/s)
Run 1: Statistics of WebRTC media

Local clock offset: 0.586 ms
Remote clock offset: 1.384 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 62.409 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 60.927 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 62.470 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 62.428 ms
Loss rate: 1.66%
Run 1: Report of WebRTC media — Data Link

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**Throughput (Mbit/s)**

- **Flow 1 ingress (mean 0.98 Mbit/s)**
- **Flow 2 ingress (mean 1.01 Mbit/s)**
- **Flow 3 ingress (mean 0.53 Mbit/s)**
- **Flow 1 egress (mean 0.97 Mbit/s)**
- **Flow 2 egress (mean 1.00 Mbit/s)**
- **Flow 3 egress (mean 0.52 Mbit/s)**

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

- **Flow 1 (95th percentile 60.93 ms)**
- **Flow 2 (95th percentile 62.47 ms)**
- **Flow 3 (95th percentile 62.43 ms)**
Run 2: Statistics of WebRTC media

End at: 2018-06-19 22:42:03
Local clock offset: 0.031 ms
Remote clock offset: -1.232 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 64.999 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 65.015 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 64.887 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 65.108 ms
Loss rate: 2.13%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

End at: 2018-06-19 23:05:25
Local clock offset: -0.218 ms
Remote clock offset: -1.282 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.80 Mbit/s
  95th percentile per-packet one-way delay: 65.194 ms
  Loss rate: 0.68%
-- Flow 1:
  Average throughput: 2.02 Mbit/s
  95th percentile per-packet one-way delay: 65.233 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 1.29 Mbit/s
  95th percentile per-packet one-way delay: 65.158 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 0.50 Mbit/s
  95th percentile per-packet one-way delay: 64.869 ms
  Loss rate: 1.74%
Run 3: Report of WebRTC media — Data Link

![Graph showing Throughput and Delay](image)

*Flow 1 ingress (mean 2.02 Mbit/s)*
*Flow 1 egress (mean 2.02 Mbit/s)*
*Flow 2 ingress (mean 1.30 Mbit/s)*
*Flow 2 egress (mean 1.29 Mbit/s)*
*Flow 3 ingress (mean 0.51 Mbit/s)*
*Flow 3 egress (mean 0.50 Mbit/s)*
Run 4: Statistics of WebRTC media

Local clock offset: -0.094 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 63.815 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 62.162 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 63.892 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.963 ms
Loss rate: 1.55%
Run 4: Report of WebRTC media — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 2.03 Mbps)
  - Flow 1 egress (mean 2.03 Mbps)
  - Flow 2 ingress (mean 1.31 Mbps)
  - Flow 2 egress (mean 1.30 Mbps)
  - Flow 3 ingress (mean 0.52 Mbps)
  - Flow 3 egress (mean 0.52 Mbps)

- **Packet delay (ms):**
  - Flow 1 (95th percentile 62.16 ms)
  - Flow 2 (95th percentile 63.89 ms)
  - Flow 3 (95th percentile 63.96 ms)
Run 5: Statistics of WebRTC media

Local clock offset: -0.125 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 63.901 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 64.003 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.898 ms
Loss rate: 1.79%
Run 5: Report of WebRTC media — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows with specified mean rates.]
Run 6: Statistics of WebRTC media

Start at: 2018-06-20 00:15:23
End at: 2018-06-20 00:15:53
Local clock offset: -0.114 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.74 Mbit/s
  95th percentile per-packet one-way delay: 63.649 ms
  Loss rate: 1.15%
-- Flow 1:
  Average throughput: 1.94 Mbit/s
  95th percentile per-packet one-way delay: 63.653 ms
  Loss rate: 0.88%
-- Flow 2:
  Average throughput: 1.31 Mbit/s
  95th percentile per-packet one-way delay: 63.674 ms
  Loss rate: 0.95%
-- Flow 3:
  Average throughput: 0.52 Mbit/s
  95th percentile per-packet one-way delay: 61.746 ms
  Loss rate: 2.72%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-06-20 00:38:22
End at: 2018-06-20 00:38:52
Local clock offset: -0.059 ms
Remote clock offset: 1.344 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.83 Mbit/s
  95th percentile per-packet one-way delay: 62.455 ms
  Loss rate: 0.88%
-- Flow 1:
  Average throughput: 2.03 Mbit/s
  95th percentile per-packet one-way delay: 62.390 ms
  Loss rate: 0.66%
-- Flow 2:
  Average throughput: 1.31 Mbit/s
  95th percentile per-packet one-way delay: 62.559 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 0.51 Mbit/s
  95th percentile per-packet one-way delay: 62.121 ms
  Loss rate: 2.20%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-20 01:01:55
End at: 2018-06-20 01:02:25
Local clock offset: -0.065 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-20 04:54:58
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 3.85 Mbit/s
   95th percentile per-packet one-way delay: 63.852 ms
   Loss rate: 0.76%
-- Flow 1:
   Average throughput: 2.06 Mbit/s
   95th percentile per-packet one-way delay: 63.882 ms
   Loss rate: 0.38%
-- Flow 2:
   Average throughput: 1.30 Mbit/s
   95th percentile per-packet one-way delay: 63.777 ms
   Loss rate: 0.77%
-- Flow 3:
   Average throughput: 0.51 Mbit/s
   95th percentile per-packet one-way delay: 63.801 ms
   Loss rate: 2.27%
Run 8: Report of WebRTC media — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 2.06 Mbps)
Flow 1 egress (mean 2.06 Mbps)
Flow 2 ingress (mean 1.30 Mbps)
Flow 2 egress (mean 1.30 Mbps)
Flow 3 ingress (mean 0.52 Mbps)
Flow 3 egress (mean 0.52 Mbps)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 63.80 ms)
Flow 2 (95th percentile 63.78 ms)
Flow 3 (95th percentile 63.80 ms)
Run 9: Statistics of WebRTC media

Start at: 2018-06-20 01:25:22
End at: 2018-06-20 01:25:52
Local clock offset: 0.036 ms
Remote clock offset: -1.37 ms

# Below is generated by plot.py at 2018-06-20 04:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 65.211 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 65.185 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 65.242 ms
Loss rate: 1.68%
Run 9: Report of WebRTC media — Data Link

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

- Flow 1 ingress (mean 1.95 Mbit/s)
- Flow 1 egress (mean 1.95 Mbit/s)
- Flow 2 ingress (mean 1.29 Mbit/s)
- Flow 2 egress (mean 1.29 Mbit/s)
- Flow 3 ingress (mean 0.53 Mbit/s)
- Flow 3 egress (mean 0.52 Mbit/s)

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

- Flow 1 (95th percentile 65.19 ms)
- Flow 2 (95th percentile 65.23 ms)
- Flow 3 (95th percentile 65.24 ms)
Run 10: Statistics of WebRTC media

Start at: 2018-06-20 01:48:49
End at: 2018-06-20 01:49:19
Local clock offset: 0.027 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-20 04:54:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 63.794 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 1.65%
Run 10: Report of WebRTC media — Data Link

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

- **Flow 1 ingress (mean 2.02 Mbit/s)**
- **Flow 1 egress (mean 2.01 Mbit/s)**
- **Flow 2 ingress (mean 1.30 Mbit/s)**
- **Flow 2 egress (mean 1.29 Mbit/s)**
- **Flow 3 ingress (mean 0.53 Mbit/s)**
- **Flow 3 egress (mean 0.52 Mbit/s)**