Pantheon Report

Generated at 2018-06-21 03:40:42 (UTC).
Data path: GCE Iowa Ethernet (remote) → GCE London 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 @ d47f4fa1b454a5e3c0537115c5a28436dbd4bb34
third_party/genericCC @ c7966e494e9929986ea5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc44de0ed9f0c077e64d
third_party/libutp @ b3465b942e2826f2f2b179eaab4a906ce6bb7cf3c
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cf42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdbc2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b0e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b487aa74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
test from GCE Iowa to GCE London, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
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<th>mean avg tput (Mbit/s)</th>
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<td>63.27</td>
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<td>PCC-Vivace</td>
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<td>WebRTC media</td>
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<td>0.22</td>
<td>0.22</td>
<td>0.22</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-06-20 21:58:07
End at: 2018-06-20 21:58:37
Local clock offset: -0.37 ms
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-06-21 01:51:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.31 Mbit/s
95th percentile per-packet one-way delay: 121.164 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 187.05 Mbit/s
95th percentile per-packet one-way delay: 117.689 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 164.93 Mbit/s
95th percentile per-packet one-way delay: 121.267 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 126.20 Mbit/s
95th percentile per-packet one-way delay: 127.672 ms
Loss rate: 1.67%
Run 1: Report of TCP BBR — Data Link

![Graph showing network performance metrics](image)

- **Flow 1**:
  - Ingress: Mean 187.23 Mbps
  - Egress: Mean 187.05 Mbps

- **Flow 2**: Ingress: Mean 165.11 Mbps
  - Egress: Mean 164.93 Mbps

- **Flow 3**: Ingress: Mean 127.03 Mbps
  - Egress: Mean 126.20 Mbps

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

- **Flow 1**: 95th percentile 117.69 ms
- **Flow 2**: 95th percentile 121.27 ms
- **Flow 3**: 95th percentile 127.67 ms
Run 2: Statistics of TCP BBR

Start at: 2018-06-20 22:20:19
End at: 2018-06-20 22:20:49
Local clock offset: -0.384 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-21 01:51:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.41 Mbit/s
95th percentile per-packet one-way delay: 124.934 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 190.38 Mbit/s
95th percentile per-packet one-way delay: 119.057 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 158.18 Mbit/s
95th percentile per-packet one-way delay: 125.416 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 133.13 Mbit/s
95th percentile per-packet one-way delay: 129.946 ms
Loss rate: 1.70%
Run 2: Report of TCP BBR — Data Link

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

End at: 2018-06-20 22:42:54
Local clock offset: 0.064 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-21 01:51:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 345.40 Mbit/s
95th percentile per-packet one-way delay: 112.097 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 190.25 Mbit/s
95th percentile per-packet one-way delay: 107.684 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 164.22 Mbit/s
95th percentile per-packet one-way delay: 112.381 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 139.26 Mbit/s
95th percentile per-packet one-way delay: 117.722 ms
Loss rate: 1.62%
Run 3: Report of TCP BBR — Data Link

- Flow 1 ingress (mean 190.36 Mbit/s)
- Flow 1 egress (mean 190.25 Mbit/s)
- Flow 2 ingress (mean 164.62 Mbit/s)
- Flow 2 egress (mean 164.22 Mbit/s)
- Flow 3 ingress (mean 140.10 Mbit/s)
- Flow 3 egress (mean 139.26 Mbit/s)

- Flow 1 (99th percentile 107.68 ms)
- Flow 2 (99th percentile 112.38 ms)
- Flow 3 (99th percentile 117.72 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-06-20 23:04:39
End at: 2018-06-20 23:05:09
Local clock offset: -0.313 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-21 01:51:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 345.14 Mbit/s
  95th percentile per-packet one-way delay: 118.856 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 187.43 Mbit/s
  95th percentile per-packet one-way delay: 110.941 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 171.38 Mbit/s
  95th percentile per-packet one-way delay: 118.648 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 132.70 Mbit/s
  95th percentile per-packet one-way delay: 131.237 ms
  Loss rate: 1.78%
Run 4: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 187.53 Mbit/s)
- Flow 1 egress (mean 187.43 Mbit/s)
- Flow 2 ingress (mean 171.61 Mbit/s)
- Flow 2 egress (mean 171.38 Mbit/s)
- Flow 3 ingress (mean 133.73 Mbit/s)
- Flow 3 egress (mean 132.79 Mbit/s)

![Graph of Packet Delay](image)

- Flow 1 (95th percentile 110.94 ms)
- Flow 2 (95th percentile 118.65 ms)
- Flow 3 (95th percentile 131.24 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-06-20 23:26:47
End at: 2018-06-20 23:27:17
Local clock offset: 0.081 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-21 01:51:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 342.49 Mbit/s
  95th percentile per-packet one-way delay: 114.396 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 188.52 Mbit/s
  95th percentile per-packet one-way delay: 110.669 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 163.57 Mbit/s
  95th percentile per-packet one-way delay: 114.135 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 137.45 Mbit/s
  95th percentile per-packet one-way delay: 124.054 ms
  Loss rate: 1.48%
Run 5: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 188.56 Mbps)
- Flow 1 egress (mean 188.52 Mbps)
- Flow 2 ingress (mean 163.07 Mbps)
- Flow 2 egress (mean 163.57 Mbps)
- Flow 3 ingress (mean 136.10 Mbps)
- Flow 3 egress (mean 137.45 Mbps)

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

- Flow 1 (95th percentile 110.67 ms)
- Flow 2 (95th percentile 114.14 ms)
- Flow 3 (95th percentile 124.05 ms)
Run 6: Statistics of TCP BBR

End at: 2018-06-20 23:49:29
Local clock offset: 0.129 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-21 01:51:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.97 Mbit/s
95th percentile per-packet one-way delay: 117.760 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 181.56 Mbit/s
95th percentile per-packet one-way delay: 112.650 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 163.59 Mbit/s
95th percentile per-packet one-way delay: 117.343 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 129.04 Mbit/s
95th percentile per-packet one-way delay: 124.889 ms
Loss rate: 1.72%
Run 6: Report of TCP BBR — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 181.70 Mbps)  
Flow 1 egress (mean 181.56 Mbps)  
Flow 2 ingress (mean 163.79 Mbps)  
Flow 2 egress (mean 163.59 Mbps)  
Flow 3 ingress (mean 129.89 Mbps)  
Flow 3 egress (mean 129.04 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 112.65 ms)  
Flow 2 (95th percentile 117.34 ms)  
Flow 3 (95th percentile 124.89 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-06-21 00:11:07
End at: 2018-06-21 00:11:37
Local clock offset: -0.2 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-21 01:51:12
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 333.68 Mbit/s
  95th percentile per-packet one-way delay: 128.916 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 183.01 Mbit/s
  95th percentile per-packet one-way delay: 122.901 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 157.49 Mbit/s
  95th percentile per-packet one-way delay: 128.598 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 139.57 Mbit/s
  95th percentile per-packet one-way delay: 139.519 ms
  Loss rate: 1.75%
Run 7: Report of TCP BBR — Data Link
Run 8: Statistics of TCP BBR

Start at: 2018-06-21 00:33:04
End at: 2018-06-21 00:33:34
Local clock offset: 0.011 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-06-21 01:51:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 351.83 Mbit/s
  95th percentile per-packet one-way delay: 116.327 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 195.01 Mbit/s
  95th percentile per-packet one-way delay: 112.122 ms
  Loss rate: 0.40%
-- Flow 2:
  Average throughput: 169.15 Mbit/s
  95th percentile per-packet one-way delay: 116.036 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 134.23 Mbit/s
  95th percentile per-packet one-way delay: 123.180 ms
  Loss rate: 1.71%
Run 8: Report of TCP BBR — Data Link

[Graphs showing throughput and per-packet one-way delay over time for different flows.]
Run 9: Statistics of TCP BBR

Start at: 2018-06-21 00:55:17
End at: 2018-06-21 00:55:47
Local clock offset: -0.324 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-06-21 01:56:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 344.54 Mbit/s
  95th percentile per-packet one-way delay: 114.374 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 188.91 Mbit/s
  95th percentile per-packet one-way delay: 112.195 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 168.64 Mbit/s
  95th percentile per-packet one-way delay: 114.419 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 132.28 Mbit/s
  95th percentile per-packet one-way delay: 119.593 ms
  Loss rate: 1.76%
Run 9: Report of TCP BBR — Data Link

![Throughput Graph](image1)

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

Start at: 2018-06-21 01:17:26
End at: 2018-06-21 01:17:56
Local clock offset: 0.115 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-21 01:56:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 342.73 Mbit/s
  95th percentile per-packet one-way delay: 120.516 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 186.26 Mbit/s
  95th percentile per-packet one-way delay: 112.656 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 166.41 Mbit/s
  95th percentile per-packet one-way delay: 120.264 ms
  Loss rate: 0.70%
-- Flow 3:
  Average throughput: 138.77 Mbit/s
  95th percentile per-packet one-way delay: 132.763 ms
  Loss rate: 1.61%
Run 10: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 186.38 Mbps)
- Flow 1 egress (mean 186.26 Mbps)
- Flow 2 ingress (mean 166.72 Mbps)
- Flow 2 egress (mean 166.41 Mbps)
- Flow 3 ingress (mean 139.60 Mbps)
- Flow 3 egress (mean 138.77 Mbps)

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

- Flow 1 (95th percentile 112.66 ms)
- Flow 2 (95th percentile 120.26 ms)
- Flow 3 (95th percentile 132.76 ms)
Run 1: Statistics of Copa

End at: 2018-06-20 22:08:43
Local clock offset: 0.375 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-21 01:56:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 175.53 Mbit/s
95th percentile per-packet one-way delay: 54.132 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 98.66 Mbit/s
95th percentile per-packet one-way delay: 54.209 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 53.879 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 60.79 Mbit/s
95th percentile per-packet one-way delay: 55.139 ms
Loss rate: 1.97%
Run 1: Report of Copa — Data Link

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**First Graph:**
- X-axis: Time (s)
- Y-axis: Throughput (Mbps)
- Legend:
  - Flow 1 ingress (mean 98.58 Mbit/s)
  - Flow 1 egress (mean 98.66 Mbit/s)
  - Flow 2 ingress (mean 85.40 Mbit/s)
  - Flow 2 egress (mean 85.43 Mbit/s)
  - Flow 3 ingress (mean 61.38 Mbit/s)
  - Flow 3 egress (mean 60.79 Mbit/s)

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**Second Graph:**
- X-axis: Time (s)
- Y-axis: Per packet one way delay (ms)
- Legend:
  - Flow 1 (95th percentile 54.21 ms)
  - Flow 2 (95th percentile 53.88 ms)
  - Flow 3 (95th percentile 55.14 ms)
Run 2: Statistics of Copa

Start at: 2018-06-20 22:30:18
End at: 2018-06-20 22:30:48
Local clock offset: 0.383 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-21 01:56:53
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 150.22 Mbit/s
  95th percentile per-packet one-way delay: 54.031 ms
  Loss rate: 0.54%
-- Flow 1:
  Average throughput: 86.85 Mbit/s
  95th percentile per-packet one-way delay: 52.949 ms
  Loss rate: 0.58%
-- Flow 2:
  Average throughput: 60.53 Mbit/s
  95th percentile per-packet one-way delay: 55.411 ms
  Loss rate: 0.78%
-- Flow 3:
  Average throughput: 79.40 Mbit/s
  95th percentile per-packet one-way delay: 57.379 ms
  Loss rate: 0.00%
Run 2: Report of Copa — Data Link

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

- Throughput graphs for Flow 1 (ingress: mean 87.07 Mbps, egress: mean 86.85 Mbps), Flow 2 (ingress: mean 60.67 Mbps, egress: mean 60.53 Mbps), and Flow 3 (ingress: mean 79.48 Mbps, egress: mean 79.40 Mbps).
- Packet loss graphs showing 95th percentile values for each flow.
Run 3: Statistics of Copa

Local clock offset: -0.341 ms
Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-21 01:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 169.27 Mbit/s
95th percentile per-packet one-way delay: 54.423 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 84.02 Mbit/s
95th percentile per-packet one-way delay: 53.722 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 87.49 Mbit/s
95th percentile per-packet one-way delay: 56.610 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 82.25 Mbit/s
95th percentile per-packet one-way delay: 52.283 ms
Loss rate: 0.97%
Run 3: Report of Copa — Data Link
Run 4: Statistics of Copa

Start at: 2018-06-20 23:14:42
End at: 2018-06-20 23:15:12
Local clock offset: 0.051 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-21 01:57:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.36 Mbit/s
95th percentile per-packet one-way delay: 54.552 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 108.33 Mbit/s
95th percentile per-packet one-way delay: 53.225 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 55.400 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 79.70 Mbit/s
95th percentile per-packet one-way delay: 57.209 ms
Loss rate: 0.76%
Run 4: Report of Copa — Data Link

 através de gráficos mostrando a através do tempo (s)

**Throughput (Mbps)**

- **Flow 1 ingress (mean 108.07 Mbit/s)**
- **Flow 1 egress (mean 108.33 Mbit/s)**
- **Flow 2 ingress (mean 97.08 Mbit/s)**
- **Flow 2 egress (mean 97.03 Mbit/s)**
- **Flow 3 ingress (mean 79.48 Mbit/s)**
- **Flow 3 egress (mean 79.70 Mbit/s)**

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

- **Flow 1 (95th percentile 53.23 ms)**
- **Flow 2 (95th percentile 55.40 ms)**
- **Flow 3 (95th percentile 57.21 ms)**
Run 5: Statistics of Copa

Start at: 2018-06-20 23:36:48
End at: 2018-06-20 23:37:18
Local clock offset: 0.045 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-21 01:57:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 180.76 Mbit/s
95th percentile per-packet one-way delay: 54.090 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 106.31 Mbit/s
95th percentile per-packet one-way delay: 53.437 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 54.961 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 74.88 Mbit/s
95th percentile per-packet one-way delay: 55.049 ms
Loss rate: 0.98%
Run 5: Report of Copa — Data Link

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

- Flow 1 ingress (mean 106.43 Mbit/s)
- Flow 1 egress (mean 106.31 Mbit/s)
- Flow 2 ingress (mean 74.91 Mbit/s)
- Flow 2 egress (mean 74.81 Mbit/s)
- Flow 3 ingress (mean 74.85 Mbit/s)
- Flow 3 egress (mean 74.88 Mbit/s)

![Graph showing per-packet end-to-end delay over time.](image)

- Flow 1 (95th percentile 53.44 ms)
- Flow 2 (95th percentile 54.98 ms)
- Flow 3 (95th percentile 55.05 ms)
Run 6: Statistics of Copa

Start at: 2018-06-20 23:58:56
End at: 2018-06-20 23:59:26
Local clock offset: -0.237 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-21 01:57:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 200.80 Mbit/s
95th percentile per-packet one-way delay: 52.915 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 107.30 Mbit/s
95th percentile per-packet one-way delay: 52.808 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 52.879 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 53.319 ms
Loss rate: 0.99%
Run 6: Report of Copa — Data Link

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

- **Flow 1** (ingress mean 107.14 Mbit/s, egress mean 107.30 Mbit/s)
- **Flow 2** (ingress mean 93.29 Mbit/s, egress mean 93.22 Mbit/s)
- **Flow 3** (ingress mean 95.40 Mbit/s, egress mean 95.43 Mbit/s)

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

- **Flow 1** (95th percentile 52.81 ms)
- **Flow 2** (95th percentile 52.88 ms)
- **Flow 3** (95th percentile 53.32 ms)
Run 7: Statistics of Copa

Start at: 2018-06-21 00:20:55
End at: 2018-06-21 00:21:25
Local clock offset: -0.289 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-21 02:01:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.82 Mbit/s
95th percentile per-packet one-way delay: 53.724 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 53.171 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 53.896 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 54.973 ms
Loss rate: 2.02%
Run 7: Report of Copa — Data Link

![Graphs showing network traffic and packet delay](image-url)
Run 8: Statistics of Copa

Start at: 2018-06-21 00:43:06
End at: 2018-06-21 00:43:36
Local clock offset: 0.001 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-21 02:02:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.43 Mbit/s
95th percentile per-packet one-way delay: 55.642 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 106.63 Mbit/s
95th percentile per-packet one-way delay: 54.086 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 56.161 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 59.046 ms
Loss rate: 0.00%
Run 8: Report of Copa — Data Link

![Graphs showing network traffic and latency over time]

- Flow 1 ingress (mean 106.39 Mbit/s)
- Flow 1 egress (mean 106.63 Mbit/s)
- Flow 2 ingress (mean 70.61 Mbit/s)
- Flow 2 egress (mean 70.63 Mbit/s)
- Flow 3 ingress (mean 90.05 Mbit/s)
- Flow 3 egress (mean 90.87 Mbit/s)

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

- Flow 1 (95th percentile 54.09 ms)
- Flow 2 (95th percentile 56.16 ms)
- Flow 3 (95th percentile 59.05 ms)
Run 9: Statistics of Copa

Start at: 2018-06-21 01:05:15
End at: 2018-06-21 01:05:45
Local clock offset: -0.259 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-21 02:02:34
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 188.71 Mbit/s
  95th percentile per-packet one-way delay: 55.268 ms
  Loss rate: 0.65%
  -- Flow 1:
  Average throughput: 100.00 Mbit/s
  95th percentile per-packet one-way delay: 55.496 ms
  Loss rate: 0.62%
  -- Flow 2:
  Average throughput: 97.45 Mbit/s
  95th percentile per-packet one-way delay: 54.225 ms
  Loss rate: 0.25%
  -- Flow 3:
  Average throughput: 72.99 Mbit/s
  95th percentile per-packet one-way delay: 56.434 ms
  Loss rate: 1.88%
Run 9: Report of Copa — Data Link

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

- **Flow 1 ingress** (mean 100.24 Mbps)
- **Flow 1 egress** (mean 100.00 Mbps)
- **Flow 2 ingress** (mean 97.20 Mbps)
- **Flow 2 egress** (mean 97.45 Mbps)
- **Flow 3 ingress** (mean 73.62 Mbps)
- **Flow 3 egress** (mean 72.99 Mbps)

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

- **Flow 1** (95th percentile 55.50 ms)
- **Flow 2** (95th percentile 54.23 ms)
- **Flow 3** (95th percentile 56.43 ms)
Run 10: Statistics of Copa

Start at: 2018-06-21 01:27:30
End at: 2018-06-21 01:28:00
Local clock offset: 0.043 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-21 02:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 168.81 Mbit/s
95th percentile per-packet one-way delay: 56.343 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 55.989 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 56.205 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 58.946 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link

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

- Flow 1 ingress (mean 95.94 Mbit/s)
- Flow 1 egress (mean 95.84 Mbit/s)
- Flow 2 ingress (mean 94.43 Mbit/s)
- Flow 2 egress (mean 94.66 Mbit/s)
- Flow 3 ingress (mean 54.71 Mbit/s)
- Flow 3 egress (mean 54.50 Mbit/s)
Run 1: Statistics of TCP Cubic

End at: 2018-06-20 21:54:28
Local clock offset: -0.003 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-21 02:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 251.06 Mbit/s
95th percentile per-packet one-way delay: 72.605 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 138.94 Mbit/s
95th percentile per-packet one-way delay: 73.333 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 140.48 Mbit/s
95th percentile per-packet one-way delay: 71.693 ms
Loss rate: 0.71%
-- Flow 3:
Average throughput: 56.87 Mbit/s
95th percentile per-packet one-way delay: 73.381 ms
Loss rate: 1.69%
Run 1: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 138.93 Mbit/s) — Flow 1 egress (mean 138.94 Mbit/s)
- Flow 2 ingress (mean 140.77 Mbit/s) — Flow 2 egress (mean 140.48 Mbit/s)
- Flow 3 ingress (mean 57.26 Mbit/s) — Flow 3 egress (mean 56.87 Mbit/s)

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

- Flow 1 (95th percentile 73.33 ms)
- Flow 2 (95th percentile 71.69 ms)
- Flow 3 (95th percentile 73.38 ms)
Run 2: Statistics of TCP Cubic

Start at: 2018-06-20 22:16:09
End at: 2018-06-20 22:16:39
Local clock offset: 0.027 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-06-21 02:02:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.73 Mbit/s
95th percentile per-packet one-way delay: 74.877 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 132.89 Mbit/s
95th percentile per-packet one-way delay: 69.813 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 218.27 Mbit/s
95th percentile per-packet one-way delay: 79.805 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 60.699 ms
Loss rate: 3.67%
Run 2: Report of TCP Cubic — Data Link

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

Flow 1 ingress (mean 132.89 Mbit/s)
Flow 1 egress (mean 132.89 Mbit/s)
Flow 2 ingress (mean 218.42 Mbit/s)
Flow 2 egress (mean 218.27 Mbit/s)
Flow 3 ingress (mean 5.44 Mbit/s)
Flow 3 egress (mean 5.29 Mbit/s)

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

Flow 1 (95th percentile 69.81 ms)
Flow 2 (95th percentile 79.81 ms)
Flow 3 (95th percentile 60.70 ms)
Run 3: Statistics of TCP Cubic

Start at: 2018-06-20 22:38:12
End at: 2018-06-20 22:38:42
Local clock offset: 0.052 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-21 02:02:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.40 Mbit/s
95th percentile per-packet one-way delay: 91.732 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 135.68 Mbit/s
95th percentile per-packet one-way delay: 89.804 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 206.66 Mbit/s
95th percentile per-packet one-way delay: 92.004 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 93.775 ms
Loss rate: 1.44%
Run 3: Report of TCP Cubic — Data Link

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

- **Flow 1**: Ingress (mean 136.09 Mbit/s), Egress (mean 135.68 Mbit/s)
- **Flow 2**: Ingress (mean 206.94 Mbit/s), Egress (mean 206.66 Mbit/s)
- **Flow 3**: Ingress (mean 83.62 Mbit/s), Egress (mean 83.27 Mbit/s)
Run 4: Statistics of TCP Cubic

Start at: 2018-06-20 23:00:25
End at: 2018-06-20 23:00:55
Local clock offset: 0.053 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-21 02:02:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.58 Mbit/s
95th percentile per-packet one-way delay: 90.255 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 142.59 Mbit/s
95th percentile per-packet one-way delay: 88.513 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 105.12 Mbit/s
95th percentile per-packet one-way delay: 89.127 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 167.12 Mbit/s
95th percentile per-packet one-way delay: 96.823 ms
Loss rate: 0.64%
Run 4: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 142.57 Mbit/s)**
- **Flow 1 egress (mean 142.59 Mbit/s)**
- **Flow 2 ingress (mean 105.20 Mbit/s)**
- **Flow 2 egress (mean 105.12 Mbit/s)**
- **Flow 3 ingress (mean 166.48 Mbit/s)**
- **Flow 3 egress (mean 167.12 Mbit/s)**
Run 5: Statistics of TCP Cubic

End at: 2018-06-20 23:23:10
Local clock offset: -0.308 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-21 02:05:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.93 Mbit/s
95th percentile per-packet one-way delay: 71.138 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 166.24 Mbit/s
95th percentile per-packet one-way delay: 69.266 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 76.520 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 101.94 Mbit/s
95th percentile per-packet one-way delay: 76.998 ms
Loss rate: 1.23%
Run 5: Report of TCP Cubic — Data Link
Run 6: Statistics of TCP Cubic

Start at: 2018-06-20 23:44:49
End at: 2018-06-20 23:45:19
Local clock offset: 0.135 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-21 02:06:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 276.83 Mbit/s
  95th percentile per-packet one-way delay: 86.677 ms
  Loss rate: 0.73%
-- Flow 1:
  Average throughput: 218.23 Mbit/s
  95th percentile per-packet one-way delay: 82.485 ms
  Loss rate: 0.39%
-- Flow 2:
  Average throughput: 42.65 Mbit/s
  95th percentile per-packet one-way delay: 105.261 ms
  Loss rate: 2.63%
-- Flow 3:
  Average throughput: 91.88 Mbit/s
  95th percentile per-packet one-way delay: 99.612 ms
  Loss rate: 1.36%
Run 6: Report of TCP Cubic — Data Link

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

- **Flow 1 ingress (mean 218.37 Mbit/s)**
- **Flow 1 egress (mean 218.23 Mbit/s)**
- **Flow 2 ingress (mean 43.58 Mbit/s)**
- **Flow 2 egress (mean 42.65 Mbit/s)**
- **Flow 3 ingress (mean 92.19 Mbit/s)**
- **Flow 3 egress (mean 91.88 Mbit/s)**

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

- **Flow 1 (95th percentile 82.48 ms)**
- **Flow 2 (95th percentile 103.26 ms)**
- **Flow 3 (95th percentile 99.61 ms)**
Run 7: Statistics of TCP Cubic

Start at: 2018-06-21 00:06:55
End at: 2018-06-21 00:07:25
Local clock offset: -0.237 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-21 02:06:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 281.52 Mbit/s
95th percentile per-packet one-way delay: 62.257 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 130.53 Mbit/s
95th percentile per-packet one-way delay: 60.556 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 225.13 Mbit/s
95th percentile per-packet one-way delay: 63.058 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 58.497 ms
Loss rate: 4.35%
Run 7: Report of TCP Cubic — Data Link
Run 8: Statistics of TCP Cubic

Start at: 2018-06-21 00:28:51
End at: 2018-06-21 00:29:21
Local clock offset: 0.05 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-21 02:06:34
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 245.02 Mbit/s
  95th percentile per-packet one-way delay: 66.766 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 143.26 Mbit/s
  95th percentile per-packet one-way delay: 66.613 ms
  Loss rate: 0.37%
-- Flow 2:
  Average throughput: 150.55 Mbit/s
  95th percentile per-packet one-way delay: 66.852 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 5.00 Mbit/s
  95th percentile per-packet one-way delay: 66.555 ms
  Loss rate: 3.98%
Run 9: Statistics of TCP Cubic

Start at: 2018-06-21 00:51:06
End at: 2018-06-21 00:51:36
Local clock offset: 0.047 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-21 02:06:36
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 65.474 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 140.41 Mbit/s
95th percentile per-packet one-way delay: 64.818 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 101.70 Mbit/s
95th percentile per-packet one-way delay: 65.268 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 130.67 Mbit/s
95th percentile per-packet one-way delay: 66.861 ms
Loss rate: 1.25%
Run 9: Report of TCP Cubic — Data Link

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

- Flow 1 ingress (mean 140.56 Mbit/s), egress (mean 140.41 Mbit/s)
- Flow 2 ingress (mean 101.77 Mbit/s), egress (mean 101.76 Mbit/s)
- Flow 3 ingress (mean 130.99 Mbit/s), egress (mean 130.67 Mbit/s)

![Graph showing per-packet round-trip delay for different flows.]

- Flow 1 (95th percentile 64.82 ms)
- Flow 2 (95th percentile 65.27 ms)
- Flow 3 (95th percentile 66.86 ms)
Run 10: Statistics of TCP Cubic

End at: 2018-06-21 01:13:43  
Local clock offset: 0.082 ms  
Remote clock offset: -0.095 ms  

# Below is generated by plot.py at 2018-06-21 02:06:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 238.05 Mbit/s  
95th percentile per-packet one-way delay: 89.599 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 148.31 Mbit/s  
95th percentile per-packet one-way delay: 82.155 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 43.74 Mbit/s  
95th percentile per-packet one-way delay: 96.643 ms  
Loss rate: 2.52%  
-- Flow 3:  
Average throughput: 183.90 Mbit/s  
95th percentile per-packet one-way delay: 93.274 ms  
Loss rate: 1.35%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

End at: 2018-06-20 22:00:02
Local clock offset: 0.004 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-21 02:27:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1201.23 Mbit/s
  95th percentile per-packet one-way delay: 221.345 ms
  Loss rate: 0.64%
-- Flow 1:
  Average throughput: 648.67 Mbit/s
  95th percentile per-packet one-way delay: 225.699 ms
  Loss rate: 0.56%
-- Flow 2:
  Average throughput: 582.31 Mbit/s
  95th percentile per-packet one-way delay: 222.580 ms
  Loss rate: 0.62%
-- Flow 3:
  Average throughput: 503.97 Mbit/s
  95th percentile per-packet one-way delay: 116.916 ms
  Loss rate: 0.96%
Run 1: Report of FillP — Data Link

The graphs depict the throughput and packet delay over time for three different flows.

**Throughput** (Mbps):
- Flow 1 ingress (mean 650.08 Mbps)
- Flow 1 egress (mean 648.67 Mbps)
- Flow 2 ingress (mean 582.96 Mbps)
- Flow 2 egress (mean 582.31 Mbps)
- Flow 3 ingress (mean 503.66 Mbps)
- Flow 3 egress (mean 503.97 Mbps)

**Per-packet one-way delay (ms):**
- Flow 1 (95th percentile 225.70 ms)
- Flow 2 (95th percentile 222.58 ms)
- Flow 3 (95th percentile 116.92 ms)
Run 2: Statistics of FillP

Local clock offset: 0.036 ms
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-21 02:27:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 938.00 Mbit/s
95th percentile per-packet one-way delay: 212.655 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 436.46 Mbit/s
95th percentile per-packet one-way delay: 219.879 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 614.02 Mbit/s
95th percentile per-packet one-way delay: 193.201 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 286.62 Mbit/s
95th percentile per-packet one-way delay: 151.274 ms
Loss rate: 1.01%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

End at: 2018-06-20 22:44:19
Local clock offset: 0.05 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-21 02:31:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1243.94 Mbit/s
95th percentile per-packet one-way delay: 205.049 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 631.28 Mbit/s
95th percentile per-packet one-way delay: 207.922 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 633.06 Mbit/s
95th percentile per-packet one-way delay: 200.778 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 584.13 Mbit/s
95th percentile per-packet one-way delay: 191.474 ms
Loss rate: 2.10%
Run 3: Report of FillP — Data Link

\[
\text{Throughput (Mbit/s)}
\]

\[
\text{Time (s)}
\]

- Flow 1 ingress (mean 633.96 Mbit/s)
- Flow 1 egress (mean 631.28 Mbit/s)
- Flow 2 ingress (mean 634.18 Mbit/s)
- Flow 2 egress (mean 633.06 Mbit/s)
- Flow 3 ingress (mean 590.46 Mbit/s)
- Flow 3 egress (mean 584.13 Mbit/s)

\[
\text{Per-packet one-way delay (ms)}
\]

\[
\text{Time (s)}
\]

- Flow 1 (95th percentile 207.92 ms)
- Flow 2 (95th percentile 200.78 ms)
- Flow 3 (95th percentile 191.47 ms)
Run 4: Statistics of FillP

Start at: 2018-06-20 23:06:04
End at: 2018-06-20 23:06:34
Local clock offset: 0.07 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-21 02:31:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1117.88 Mbit/s
95th percentile per-packet one-way delay: 207.322 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 617.18 Mbit/s
95th percentile per-packet one-way delay: 218.170 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 557.10 Mbit/s
95th percentile per-packet one-way delay: 146.965 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 398.44 Mbit/s
95th percentile per-packet one-way delay: 72.285 ms
Loss rate: 1.45%
Run 4: Report of FillP — Data Link

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

- Flow 1 ingress (mean 619.36 Mbit/s)
- Flow 1 egress (mean 617.18 Mbit/s)
- Flow 2 ingress (mean 560.07 Mbit/s)
- Flow 2 egress (mean 557.10 Mbit/s)
- Flow 3 ingress (mean 490.14 Mbit/s)
- Flow 3 egress (mean 390.44 Mbit/s)

![Graph showing round-trip time for different flows.](image-url)

- Flow 1 (95th percentile 218.17 ms)
- Flow 2 (95th percentile 146.97 ms)
- Flow 3 (95th percentile 72.28 ms)
Run 5: Statistics of FillP

End at: 2018-06-20 23:28:42
Local clock offset: 0.44 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-21 02:31:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1124.65 Mbit/s
  95th percentile per-packet one-way delay: 197.457 ms
  Loss rate: 0.67%
-- Flow 1:
  Average throughput: 588.90 Mbit/s
  95th percentile per-packet one-way delay: 191.933 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 509.41 Mbit/s
  95th percentile per-packet one-way delay: 210.692 ms
  Loss rate: 0.77%
-- Flow 3:
  Average throughput: 600.70 Mbit/s
  95th percentile per-packet one-way delay: 194.888 ms
  Loss rate: 1.55%
Run 5: Report of FillP — Data Link
Run 6: Statistics of FillP

Start at: 2018-06-20 23:50:24
End at: 2018-06-20 23:50:54
Local clock offset: -0.234 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-21 02:31:14
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1114.47 Mbit/s
  95th percentile per-packet one-way delay: 222.988 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 602.45 Mbit/s
  95th percentile per-packet one-way delay: 223.434 ms
  Loss rate: 0.06%
-- Flow 2:
  Average throughput: 528.00 Mbit/s
  95th percentile per-packet one-way delay: 224.481 ms
  Loss rate: 1.18%
-- Flow 3:
  Average throughput: 492.22 Mbit/s
  95th percentile per-packet one-way delay: 115.079 ms
  Loss rate: 0.32%
Run 6: Report of FillP — Data Link

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

- Flow 1 ingress (mean 600.76 Mbps)
- Flow 2 ingress (mean 531.65 Mbps)
- Flow 3 ingress (mean 498.69 Mbps)
- Flow 1 egress (mean 602.45 Mbps)
- Flow 2 egress (mean 528.00 Mbps)
- Flow 3 egress (mean 492.22 Mbps)

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

- Flow 1 (95th percentile 223.43 ms)
- Flow 2 (95th percentile 224.48 ms)
- Flow 3 (95th percentile 115.08 ms)
Run 7: Statistics of FillP

Start at: 2018-06-21 00:12:32
End at: 2018-06-21 00:13:02
Local clock offset: 0.099 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-21 02:31:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1112.10 Mbit/s
95th percentile per-packet one-way delay: 215.522 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 532.46 Mbit/s
95th percentile per-packet one-way delay: 222.485 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 603.55 Mbit/s
95th percentile per-packet one-way delay: 202.161 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 543.43 Mbit/s
95th percentile per-packet one-way delay: 194.725 ms
Loss rate: 2.93%
Run 7: Report of FillP — Data Link
Run 8: Statistics of FillP

Start at: 2018-06-21 00:34:29
End at: 2018-06-21 00:34:59
Local clock offset: 0.005 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-21 02:31:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1200.10 Mbit/s
95th percentile per-packet one-way delay: 220.784 ms
Loss rate: 0.57%

-- Flow 1:
Average throughput: 626.84 Mbit/s
95th percentile per-packet one-way delay: 220.501 ms
Loss rate: 0.45%

-- Flow 2:
Average throughput: 583.84 Mbit/s
95th percentile per-packet one-way delay: 227.947 ms
Loss rate: 0.46%

-- Flow 3:
Average throughput: 563.79 Mbit/s
95th percentile per-packet one-way delay: 188.673 ms
Loss rate: 1.22%
Run 8: Report of FillP — Data Link

---

![Graph 1: Throughput](image1)

Legend:
- Flow 1 ingress (mean 627.50 Mbit/s)
- Flow 1 egress (mean 626.84 Mbit/s)
- Flow 2 ingress (mean 583.51 Mbit/s)
- Flow 2 egress (mean 583.86 Mbit/s)
- Flow 3 ingress (mean 564.93 Mbit/s)
- Flow 3 egress (mean 563.79 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 220.50 ms)
- Flow 2 (95th percentile 227.95 ms)
- Flow 3 (95th percentile 188.67 ms)
Run 9: Statistics of FillP

Start at: 2018-06-21 00:56:42
End at: 2018-06-21 00:57:12
Local clock offset: 0.076 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-06-21 02:50:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1212.21 Mbit/s
  95th percentile per-packet one-way delay: 197.544 ms
  Loss rate: 0.53%
-- Flow 1:
  Average throughput: 638.25 Mbit/s
  95th percentile per-packet one-way delay: 200.465 ms
  Loss rate: 0.20%
-- Flow 2:
  Average throughput: 573.39 Mbit/s
  95th percentile per-packet one-way delay: 150.636 ms
  Loss rate: 0.59%
-- Flow 3:
  Average throughput: 589.88 Mbit/s
  95th percentile per-packet one-way delay: 181.881 ms
  Loss rate: 1.52%
Run 9: Report of FillP — Data Link

Graph 1: Throughput (Mbps)

Graph 2: Per-packet one-way delay (ms)
Run 10: Statistics of FillP

Start at: 2018-06-21 01:18:51
End at: 2018-06-21 01:19:21
Local clock offset: 0.131 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
   -- Total of 3 flows:
      Average throughput: 1175.40 Mbit/s
      95th percentile per-packet one-way delay: 254.757 ms
      Loss rate: 2.20%
   -- Flow 1:
      Average throughput: 628.58 Mbit/s
      95th percentile per-packet one-way delay: 271.921 ms
      Loss rate: 3.43%
   -- Flow 2:
      Average throughput: 534.30 Mbit/s
      95th percentile per-packet one-way delay: 186.803 ms
      Loss rate: 0.46%
   -- Flow 3:
      Average throughput: 586.58 Mbit/s
      95th percentile per-packet one-way delay: 155.674 ms
      Loss rate: 1.29%
Run 10: Report of FillP — Data Link

![Graph 1](image1)

![Graph 2](image2)
Run 1: Statistics of Indigo

Start at: 2018-06-20 21:50:07
End at: 2018-06-20 21:50:37
Local clock offset: 0.0 ms
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 289.57 Mbit/s
  95th percentile per-packet one-way delay: 67.095 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 168.65 Mbit/s
  95th percentile per-packet one-way delay: 64.765 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 140.85 Mbit/s
  95th percentile per-packet one-way delay: 68.833 ms
  Loss rate: 0.63%
-- Flow 3:
  Average throughput: 74.94 Mbit/s
  95th percentile per-packet one-way delay: 77.426 ms
  Loss rate: 1.26%
Run 1: Report of Indigo — Data Link

Graphs showing throughput and per-packet one-way delay over time for three different flows.
Run 2: Statistics of Indigo

Start at: 2018-06-20 22:12:16
End at: 2018-06-20 22:12:46
Local clock offset: 0.017 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.43 Mbit/s
95th percentile per-packet one-way delay: 63.659 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 156.17 Mbit/s
95th percentile per-packet one-way delay: 59.590 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 142.77 Mbit/s
95th percentile per-packet one-way delay: 64.060 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 124.47 Mbit/s
95th percentile per-packet one-way delay: 68.931 ms
Loss rate: 1.30%
Run 2: Report of Indigo — Data Link

---

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

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![Graph 2: Packet Loss vs Time](chart2.png)

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Flow 1 ingress (mean 156.12 Mbit/s)  
Flow 1 egress (mean 156.17 Mbit/s)  
Flow 2 ingress (mean 142.68 Mbit/s)  
Flow 2 egress (mean 142.77 Mbit/s)  
Flow 3 ingress (mean 124.80 Mbit/s)  
Flow 3 egress (mean 124.47 Mbit/s)

---

Flow 1 (95th percentile 59.59 ms)  
Flow 2 (95th percentile 64.06 ms)  
Flow 3 (95th percentile 68.93 ms)
Run 3: Statistics of Indigo

Start at: 2018-06-20 22:34:19
End at: 2018-06-20 22:34:49
Local clock offset: 0.009 ms
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.17 Mbit/s
95th percentile per-packet one-way delay: 73.071 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 160.97 Mbit/s
95th percentile per-packet one-way delay: 67.838 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 144.30 Mbit/s
95th percentile per-packet one-way delay: 73.435 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 80.645 ms
Loss rate: 1.15%
Run 4: Statistics of Indigo

End at: 2018-06-20 22:57:02
Local clock offset: 0.073 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 303.31 Mbit/s
95th percentile per-packet one-way delay: 86.808 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 160.73 Mbit/s
95th percentile per-packet one-way delay: 81.268 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 152.76 Mbit/s
95th percentile per-packet one-way delay: 87.259 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 126.61 Mbit/s
95th percentile per-packet one-way delay: 94.153 ms
Loss rate: 1.36%
Run 4: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 160.57 Mbit/s), Flow 1 egress (mean 160.73 Mbit/s)
- Flow 2 ingress (mean 152.76 Mbit/s), Flow 2 egress (mean 152.76 Mbit/s)
- Flow 3 ingress (mean 127.02 Mbit/s), Flow 3 egress (mean 126.61 Mbit/s)
Run 5: Statistics of Indigo

End at: 2018-06-20 23:19:17
Local clock offset: 0.033 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 293.46 Mbit/s
  95th percentile per-packet one-way delay: 75.622 ms
  Loss rate: 0.45%
-- Flow 1:
  Average throughput: 168.17 Mbit/s
  95th percentile per-packet one-way delay: 72.037 ms
  Loss rate: 0.34%
-- Flow 2:
  Average throughput: 137.09 Mbit/s
  95th percentile per-packet one-way delay: 75.929 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 105.66 Mbit/s
  95th percentile per-packet one-way delay: 79.123 ms
  Loss rate: 1.05%
Run 5: Report of Indigo — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 168.17 Mbps)
- **Flow 1 egress** (mean 168.17 Mbps)
- **Flow 2 ingress** (mean 136.97 Mbps)
- **Flow 2 egress** (mean 137.09 Mbps)
- **Flow 3 ingress** (mean 105.68 Mbps)
- **Flow 3 egress** (mean 105.66 Mbps)

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

- **Flow 1** (95th percentile 72.04 ms)
- **Flow 2** (95th percentile 75.93 ms)
- **Flow 3** (95th percentile 79.12 ms)
Run 6: Statistics of Indigo

End at: 2018-06-20 23:41:26
Local clock offset: 0.04 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.41 Mbit/s
95th percentile per-packet one-way delay: 75.756 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 161.37 Mbit/s
95th percentile per-packet one-way delay: 72.782 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 139.17 Mbit/s
95th percentile per-packet one-way delay: 75.516 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 127.92 Mbit/s
95th percentile per-packet one-way delay: 80.714 ms
Loss rate: 1.16%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-06-21 00:03:01
End at: 2018-06-21 00:03:31
Local clock offset: 0.123 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 293.39 Mbit/s
  95th percentile per-packet one-way delay: 73.244 ms
  Loss rate: 0.47%
-- Flow 1:
  Average throughput: 175.48 Mbit/s
  95th percentile per-packet one-way delay: 72.037 ms
  Loss rate: 0.36%
-- Flow 2:
  Average throughput: 151.98 Mbit/s
  95th percentile per-packet one-way delay: 73.851 ms
  Loss rate: 0.56%
-- Flow 3:
  Average throughput: 52.39 Mbit/s
  95th percentile per-packet one-way delay: 77.891 ms
  Loss rate: 1.19%
Run 7: Report of Indigo — Data Link

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

- **Flow 1 ingress (mean 175.52 Mbit/s)**
- **Flow 1 egress (mean 175.48 Mbit/s)**
- **Flow 2 ingress (mean 152.05 Mbit/s)**
- **Flow 2 egress (mean 151.98 Mbit/s)**
- **Flow 3 ingress (mean 52.49 Mbit/s)**
- **Flow 3 egress (mean 52.39 Mbit/s)**
Run 8: Statistics of Indigo

Start at: 2018-06-21 00:24:58
End at: 2018-06-21 00:25:28
Local clock offset: 0.037 ms
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 290.62 Mbit/s
  95th percentile per-packet one-way delay: 64.217 ms
  Loss rate: 0.41%
-- Flow 1:
  Average throughput: 175.65 Mbit/s
  95th percentile per-packet one-way delay: 62.487 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 151.44 Mbit/s
  95th percentile per-packet one-way delay: 66.022 ms
  Loss rate: 0.47%
-- Flow 3:
  Average throughput: 44.92 Mbit/s
  95th percentile per-packet one-way delay: 72.900 ms
  Loss rate: 1.10%
Run 8: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 175.63 Mbit/s)
- Flow 1 egress (mean 175.65 Mbit/s)
- Flow 2 ingress (mean 151.38 Mbit/s)
- Flow 2 egress (mean 151.44 Mbit/s)
- Flow 3 ingress (mean 44.95 Mbit/s)
- Flow 3 egress (mean 44.92 Mbit/s)
Run 9: Statistics of Indigo

Start at: 2018-06-21 00:47:12
End at: 2018-06-21 00:47:42
Local clock offset: 0.001 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 301.98 Mbit/s
  95th percentile per-packet one-way delay: 64.222 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 164.97 Mbit/s
  95th percentile per-packet one-way delay: 62.367 ms
  Loss rate: 0.33%
-- Flow 2:
  Average throughput: 146.00 Mbit/s
  95th percentile per-packet one-way delay: 64.377 ms
  Loss rate: 0.39%
-- Flow 3:
  Average throughput: 123.08 Mbit/s
  95th percentile per-packet one-way delay: 68.322 ms
  Loss rate: 1.33%
Run 10: Statistics of Indigo

Start at: 2018-06-21 01:09:21
End at: 2018-06-21 01:09:51
Local clock offset: 0.085 ms
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 283.58 Mbit/s
  95th percentile per-packet one-way delay: 74.688 ms
  Loss rate: 0.48%
-- Flow 1:
  Average throughput: 149.74 Mbit/s
  95th percentile per-packet one-way delay: 71.185 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 139.94 Mbit/s
  95th percentile per-packet one-way delay: 74.431 ms
  Loss rate: 0.44%
-- Flow 3:
  Average throughput: 127.54 Mbit/s
  95th percentile per-packet one-way delay: 81.168 ms
  Loss rate: 1.33%
Run 10: Report of Indigo — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 149.62 Mbps)
- Flow 1 egress (mean 149.74 Mbps)
- Flow 2 ingress (mean 139.82 Mbps)
- Flow 2 egress (mean 139.94 Mbps)
- Flow 3 ingress (mean 127.91 Mbps)
- Flow 3 egress (mean 127.54 Mbps)

Graph 2: Per-Packet One-Way Delay (ms)
- Flow 1 (95th percentile 71.19 ms)
- Flow 2 (95th percentile 74.43 ms)
- Flow 3 (95th percentile 81.17 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-06-20 21:51:33
End at: 2018-06-20 21:52:03
Local clock offset: -0.414 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.81 Mbit/s
95th percentile per-packet one-way delay: 52.140 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 52.120 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 52.409 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 51.361 ms
Loss rate: 1.81%
Run 1: Report of LEDBAT — Data Link

---

**Graph 1:**
- **Y-axis:** Throughput (Mbps)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 ingress (mean 34.94 Mbps/s)
  - Flow 1 egress (mean 34.82 Mbps/s)
  - Flow 2 ingress (mean 23.18 Mbps/s)
  - Flow 2 egress (mean 23.06 Mbps/s)
  - Flow 3 ingress (mean 11.50 Mbps/s)
  - Flow 3 egress (mean 11.30 Mbps/s)

**Graph 2:**
- **Y-axis:** Per-packet round trip delay (ms)
- **X-axis:** Time (s)
- **Legend:**
  - Flow 1 (95th percentile 52.12 ms)
  - Flow 2 (95th percentile 52.41 ms)
  - Flow 3 (95th percentile 51.36 ms)
Run 2: Statistics of LEDBAT

Local clock offset: 0.026 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.61 Mbit/s
  95th percentile per-packet one-way delay: 52.579 ms
  Loss rate: 0.84%
-- Flow 1:
  Average throughput: 34.56 Mbit/s
  95th percentile per-packet one-way delay: 52.649 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 23.04 Mbit/s
  95th percentile per-packet one-way delay: 52.414 ms
  Loss rate: 1.02%
-- Flow 3:
  Average throughput: 8.28 Mbit/s
  95th percentile per-packet one-way delay: 52.879 ms
  Loss rate: 1.90%
Run 2: Report of LEDBAT — Data Link
Run 3: Statistics of LEDBAT

Start at: 2018-06-20 22:35:46
End at: 2018-06-20 22:36:16
Local clock offset: -0.337 ms
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 54.11 Mbit/s
  95th percentile per-packet one-way delay: 50.549 ms
  Loss rate: 0.86%
-- Flow 1:
  Average throughput: 36.11 Mbit/s
  95th percentile per-packet one-way delay: 50.434 ms
  Loss rate: 0.66%
-- Flow 2:
  Average throughput: 21.35 Mbit/s
  95th percentile per-packet one-way delay: 50.662 ms
  Loss rate: 1.05%
-- Flow 3:
  Average throughput: 11.61 Mbit/s
  95th percentile per-packet one-way delay: 50.896 ms
  Loss rate: 2.04%
Run 3: Report of LEDBAT — Data Link
Run 4: Statistics of LEDBAT

End at: 2018-06-20 22:58:29
Local clock offset: 0.031 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 66.497 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 31.28 Mbit/s
95th percentile per-packet one-way delay: 67.492 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 64.291 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 51.414 ms
Loss rate: 2.05%
Run 4: Report of LEDBAT — Data Link

Throughput (Mbit/s)

Time (s)

- Flow 1 ingress (mean 31.39 Mbit/s)
- Flow 1 egress (mean 31.28 Mbit/s)
- Flow 2 ingress (mean 20.12 Mbit/s)
- Flow 2 egress (mean 20.00 Mbit/s)
- Flow 3 ingress (mean 11.64 Mbit/s)
- Flow 3 egress (mean 11.52 Mbit/s)

Per packet one way delay (ms)

Time (s)

- Flow 1 (95th percentile 67.49 ms)
- Flow 2 (95th percentile 64.29 ms)
- Flow 3 (95th percentile 51.41 ms)
Run 5: Statistics of LEDBAT

Start at: 2018-06-20 23:20:14
End at: 2018-06-20 23:20:44
Local clock offset: 0.448 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.01 Mbit/s
  95th percentile per-packet one-way delay: 52.019 ms
  Loss rate: 0.85%
-- Flow 1:
  Average throughput: 34.62 Mbit/s
  95th percentile per-packet one-way delay: 52.076 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 23.98 Mbit/s
  95th percentile per-packet one-way delay: 51.926 ms
  Loss rate: 1.00%
-- Flow 3:
  Average throughput: 4.41 Mbit/s
  95th percentile per-packet one-way delay: 51.417 ms
  Loss rate: 3.17%
Run 5: Report of LEDBAT — Data Link

---

**Throughput (Mbps)**

![Graph showing throughput over time](image)

- **Flow 1 Ingress** (mean 34.73 Mbps)
- **Flow 1 Egress** (mean 34.62 Mbps)
- **Flow 2 Ingress** (mean 24.10 Mbps)
- **Flow 2 Egress** (mean 23.98 Mbps)
- **Flow 3 Ingress** (mean 4.51 Mbps)
- **Flow 3 Egress** (mean 4.41 Mbps)

---

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

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

- **Flow 1 (95th percentile 52.08 ms)**
- **Flow 2 (95th percentile 51.93 ms)**
- **Flow 3 (95th percentile 51.42 ms)**

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Run 6: Statistics of LEDBAT

Local clock offset: 0.117 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.49 Mbit/s
  95th percentile per-packet one-way delay: 52.429 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 34.47 Mbit/s
  95th percentile per-packet one-way delay: 52.468 ms
  Loss rate: 0.68%
-- Flow 2:
  Average throughput: 23.06 Mbit/s
  95th percentile per-packet one-way delay: 52.219 ms
  Loss rate: 1.02%
-- Flow 3:
  Average throughput: 11.38 Mbit/s
  95th percentile per-packet one-way delay: 53.269 ms
  Loss rate: 2.06%
Run 6: Report of LEDBAT — Data Link

![Graph 1: Throughput (Mbps/s) over Time (s)]
- Blue dashed line: Flow 1 ingress (mean 34.59 Mbps/s)
- Blue solid line: Flow 1 egress (mean 34.47 Mbps/s)
- Green dashed line: Flow 2 ingress (mean 23.17 Mbps/s)
- Green solid line: Flow 2 egress (mean 23.06 Mbps/s)
- Red dashed line: Flow 3 ingress (mean 11.30 Mbps/s)
- Red solid line: Flow 3 egress (mean 11.38 Mbps/s)

![Graph 2: Per-packet one-way delay (ms) over Time (s)]
- Blue: Flow 1 (95th percentile 52.47 ms)
- Green: Flow 2 (95th percentile 52.22 ms)
- Red: Flow 3 (95th percentile 53.27 ms)
Run 7: Statistics of LEDBAT

Start at: 2018-06-21 00:04:28
End at: 2018-06-21 00:04:58
Local clock offset: -0.236 ms
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.34 Mbit/s
  95th percentile per-packet one-way delay: 51.801 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 34.48 Mbit/s
  95th percentile per-packet one-way delay: 51.891 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 22.77 Mbit/s
  95th percentile per-packet one-way delay: 51.666 ms
  Loss rate: 1.02%
-- Flow 3:
  Average throughput: 11.41 Mbit/s
  95th percentile per-packet one-way delay: 51.671 ms
  Loss rate: 2.06%
Run 7: Report of LEDBAT — Data Link

![Graph depicting throughput over time for different flows.

- Flow 1 (ingress mean 34.60 Mbit/s)
- Flow 1 (egress mean 34.48 Mbit/s)
- Flow 2 (ingress mean 22.89 Mbit/s)
- Flow 2 (egress mean 22.77 Mbit/s)
- Flow 3 (ingress mean 11.52 Mbit/s)
- Flow 3 (egress mean 11.41 Mbit/s)

![Graph depicting packet round-trip time over time for different flows.

- Flow 1 (95th percentile 51.89 ms)
- Flow 2 (95th percentile 51.67 ms)
- Flow 3 (95th percentile 51.67 ms)
Run 8: Statistics of LEDBAT

Start at: 2018-06-21 00:26:25
End at: 2018-06-21 00:26:55
Local clock offset: 0.015 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.37 Mbit/s
  95th percentile per-packet one-way delay: 52.723 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 34.52 Mbit/s
  95th percentile per-packet one-way delay: 52.650 ms
  Loss rate: 0.68%
-- Flow 2:
  Average throughput: 22.79 Mbit/s
  95th percentile per-packet one-way delay: 52.622 ms
  Loss rate: 1.02%
-- Flow 3:
  Average throughput: 11.30 Mbit/s
  95th percentile per-packet one-way delay: 53.960 ms
  Loss rate: 2.06%
Run 9: Statistics of LEDBAT

Start at: 2018-06-21 00:48:40
End at: 2018-06-21 00:49:10
Local clock offset: 0.084 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 53.84 Mbit/s
  95th percentile per-packet one-way delay: 52.763 ms
  Loss rate: 0.87%
-- Flow 1:
  Average throughput: 34.74 Mbit/s
  95th percentile per-packet one-way delay: 52.953 ms
  Loss rate: 0.67%
-- Flow 2:
  Average throughput: 23.25 Mbit/s
  95th percentile per-packet one-way delay: 52.427 ms
  Loss rate: 1.00%
-- Flow 3:
  Average throughput: 11.25 Mbit/s
  95th percentile per-packet one-way delay: 52.341 ms
  Loss rate: 2.07%
Run 9: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 34.85 Mbps)
- Flow 1 egress (mean 34.74 Mbps)
- Flow 2 ingress (mean 23.36 Mbps)
- Flow 2 egress (mean 23.25 Mbps)
- Flow 3 ingress (mean 11.37 Mbps)
- Flow 3 egress (mean 11.25 Mbps)

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

- Flow 1 (95th percentile 52.95 ms)
- Flow 2 (95th percentile 52.43 ms)
- Flow 3 (95th percentile 52.34 ms)
Run 10: Statistics of LEDBAT

Start at: 2018-06-21 01:10:47
End at: 2018-06-21 01:11:17
Local clock offset: 0.108 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.38 Mbit/s
95th percentile per-packet one-way delay: 51.751 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 35.12 Mbit/s
95th percentile per-packet one-way delay: 51.833 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 23.44 Mbit/s
95th percentile per-packet one-way delay: 51.360 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 52.775 ms
Loss rate: 2.07%
Run 10: Report of LEDBAT — Data Link

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

- Flow 1 ingress (mean 35.24 Mbit/s)
- Flow 1 egress (mean 35.12 Mbit/s)
- Flow 2 ingress (mean 23.35 Mbit/s)
- Flow 2 egress (mean 23.44 Mbit/s)
- Flow 3 ingress (mean 11.36 Mbit/s)
- Flow 3 egress (mean 11.24 Mbit/s)

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

- Flow 1 (95th percentile 51.83 ms)
- Flow 2 (95th percentile 51.36 ms)
- Flow 3 (95th percentile 52.77 ms)
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-20 21:56:47
End at: 2018-06-20 21:57:17
Local clock offset: 0.01 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.17 Mbit/s
95th percentile per-packet one-way delay: 82.398 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 321.20 Mbit/s
95th percentile per-packet one-way delay: 82.493 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 81.399 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 16.40 Mbit/s
95th percentile per-packet one-way delay: 78.550 ms
Loss rate: 0.98%
Run 1: Report of PCC-Allegro — Data Link

Graph 1: Throughput (Mbps)

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

Flow 1 ingress (mean 321.28 Mbps), Flow 1 egress (mean 321.28 Mbps), Flow 2 ingress (mean 34.06 Mbps), Flow 2 egress (mean 34.06 Mbps), Flow 3 ingress (mean 16.40 Mbps), Flow 3 egress (mean 16.40 Mbps)
Run 2: Statistics of PCC-Allegro

End at: 2018-06-20 22:19:29
Local clock offset: -0.372 ms
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.01 Mbit/s
95th percentile per-packet one-way delay: 124.002 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 262.65 Mbit/s
95th percentile per-packet one-way delay: 123.599 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 73.49 Mbit/s
95th percentile per-packet one-way delay: 124.185 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 32.42 Mbit/s
95th percentile per-packet one-way delay: 127.298 ms
Loss rate: 1.12%
Run 2: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress (mean 263.68 Mbps)**
- **Flow 1 egress (mean 262.65 Mbps)**
- **Flow 2 ingress (mean 73.38 Mbps)**
- **Flow 2 egress (mean 73.49 Mbps)**
- **Flow 3 ingress (mean 32.45 Mbps)**
- **Flow 3 egress (mean 32.42 Mbps)**

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

- **Flow 1 (95th percentile 123.60 ms)**
- **Flow 2 (95th percentile 124.19 ms)**
- **Flow 3 (95th percentile 127.30 ms)**
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-20 22:41:05
End at: 2018-06-20 22:41:35
Local clock offset: 0.035 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 300.30 Mbit/s
95th percentile per-packet one-way delay: 133.623 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 255.10 Mbit/s
95th percentile per-packet one-way delay: 133.356 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 133.846 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 8.06 Mbit/s
95th percentile per-packet one-way delay: 149.684 ms
Loss rate: 0.95%
Run 3: Report of PCC-Allegro — Data Link

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

- Flow 1 ingress (mean 255.41 Mbit/s)
- Flow 1 egress (mean 255.10 Mbit/s)
- Flow 2 ingress (mean 64.23 Mbit/s)
- Flow 2 egress (mean 64.22 Mbit/s)
- Flow 3 ingress (mean 8.96 Mbit/s)
- Flow 3 egress (mean 8.06 Mbit/s)

- Flow 1 (95th percentile 133.36 ms)
- Flow 2 (95th percentile 133.85 ms)
- Flow 3 (95th percentile 149.68 ms)
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-20 23:03:18
End at: 2018-06-20 23:03:48
Local clock offset: 0.062 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 351.70 Mbit/s
95th percentile per-packet one-way delay: 138.381 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 325.75 Mbit/s
95th percentile per-packet one-way delay: 137.704 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 140.541 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 147.984 ms
Loss rate: 1.72%
Run 4: Report of PCC-Allegro — Data Link

[Graphs showing throughput and per-packet end-to-end delay over time for different flows.]
Run 5: Statistics of PCC-Allegro

End at: 2018-06-20 23:25:57
Local clock offset: 0.06 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.76 Mbit/s
95th percentile per-packet one-way delay: 112.647 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 335.56 Mbit/s
95th percentile per-packet one-way delay: 112.638 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 17.82 Mbit/s
95th percentile per-packet one-way delay: 112.374 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 114.481 ms
Loss rate: 1.25%
Run 5: Report of PCC-Allegro — Data Link
Run 6: Statistics of PCC-Allegro

End at: 2018-06-20 23:48:09
Local clock offset: 0.108 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 339.13 Mbit/s
95th percentile per-packet one-way delay: 177.064 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 314.17 Mbit/s
95th percentile per-packet one-way delay: 176.348 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 190.029 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 80.315 ms
Loss rate: 1.36%
Run 6: Report of PCC-Allegro — Data Link

Throughput (Mbps)

Flow 1 ingress (mean 314.67 Mbps)
Flow 1 egress (mean 314.17 Mbps)
Flow 2 ingress (mean 33.59 Mbps)
Flow 2 egress (mean 33.51 Mbps)
Flow 3 ingress (mean 8.35 Mbps)
Flow 3 egress (mean 8.32 Mbps)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 176.35 ms)
Flow 2 (95th percentile 190.03 ms)
Flow 3 (95th percentile 80.31 ms)
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-21 00:09:47
End at: 2018-06-21 00:10:17
Local clock offset: -0.212 ms
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 327.40 Mbit/s
95th percentile per-packet one-way delay: 114.104 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 270.41 Mbit/s
95th percentile per-packet one-way delay: 118.321 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 68.91 Mbit/s
95th percentile per-packet one-way delay: 108.959 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 34.51 Mbit/s
95th percentile per-packet one-way delay: 94.374 ms
Loss rate: 1.25%
Run 7: Report of PCC-Allegro — Data Link

![Graph showing data link throughput and per-packet one-way delay]
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-21 00:31:41
End at: 2018-06-21 00:32:11
Local clock offset: 0.034 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.19 Mbit/s
95th percentile per-packet one-way delay: 171.288 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 357.88 Mbit/s
95th percentile per-packet one-way delay: 169.947 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 61.83 Mbit/s
95th percentile per-packet one-way delay: 173.411 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 94.318 ms
Loss rate: 1.08%
Run 8: Report of PCC-Allegro — Data Link

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

Legend:
- Flow 1 ingress (mean 358.27 Mbit/s)
- Flow 1 egress (mean 357.88 Mbit/s)
- Flow 2 ingress (mean 61.90 Mbit/s)
- Flow 2 egress (mean 61.83 Mbit/s)
- Flow 3 ingress (mean 4.18 Mbit/s)
- Flow 3 egress (mean 4.17 Mbit/s)

Legend for packet delay:
- Flow 1 (95th percentile 169.95 ms)
- Flow 2 (95th percentile 173.41 ms)
- Flow 3 (95th percentile 94.32 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-21 00:53:56
End at: 2018-06-21 00:54:26
Local clock offset: 0.079 ms
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-21 02:53:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 346.79 Mbit/s
95th percentile per-packet one-way delay: 133.908 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 299.11 Mbit/s
95th percentile per-packet one-way delay: 133.089 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 63.57 Mbit/s
95th percentile per-packet one-way delay: 140.913 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 91.102 ms
Loss rate: 1.23%
Run 9: Report of PCC-Allegro — Data Link

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**Throughput (Mbps)**

- **Flow 1 ingress (mean 299.24 Mbps)**
- **Flow 1 egress (mean 299.11 Mbps)**
- **Flow 2 ingress (mean 63.65 Mbps)**
- **Flow 2 egress (mean 63.57 Mbps)**
- **Flow 3 ingress (mean 16.89 Mbps)**
- **Flow 3 egress (mean 16.84 Mbps)**

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

- **Flow 1 (95th percentile 133.09 ms)**
- **Flow 2 (95th percentile 140.91 ms)**
- **Flow 3 (95th percentile 91.10 ms)**
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-21 01:16:04  
End at: 2018-06-21 01:16:34  
Local clock offset: 0.11 ms  
Remote clock offset: -0.106 ms  

# Below is generated by plot.py at 2018-06-21 02:53:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 376.84 Mbit/s  
95th percentile per-packet one-way delay: 213.453 ms  
Loss rate: 1.94%  
-- Flow 1:  
Average throughput: 354.48 Mbit/s  
95th percentile per-packet one-way delay: 213.299 ms  
Loss rate: 1.87%  
-- Flow 2:  
Average throughput: 31.67 Mbit/s  
95th percentile per-packet one-way delay: 214.785 ms  
Loss rate: 2.93%  
-- Flow 3:  
Average throughput: 4.20 Mbit/s  
95th percentile per-packet one-way delay: 216.646 ms  
Loss rate: 4.40%
Run 10: Report of PCC-Allegro — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 360.01 Mbit/s)
- Flow 1 egress (mean 354.48 Mbit/s)
- Flow 2 ingress (mean 32.46 Mbit/s)
- Flow 2 egress (mean 31.67 Mbit/s)
- Flow 3 ingress (mean 43.35 Mbit/s)
- Flow 3 egress (mean 4.20 Mbit/s)

![Packet Error Rate Graph](image2)

- Flow 1 (95th percentile 213.30 ms)
- Flow 2 (95th percentile 214.78 ms)
- Flow 3 (95th percentile 216.65 ms)
Run 1: Statistics of PCC-Expr

Start at: 2018-06-20 22:10:44
End at: 2018-06-20 22:11:14
Local clock offset: 0.016 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-21 02:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.27 Mbit/s
95th percentile per-packet one-way delay: 56.431 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 186.77 Mbit/s
95th percentile per-packet one-way delay: 53.934 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 114.12 Mbit/s
95th percentile per-packet one-way delay: 66.570 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 63.37 Mbit/s
95th percentile per-packet one-way delay: 75.442 ms
Loss rate: 2.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

End at: 2018-06-20 22:33:17
Local clock offset: 0.062 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-06-21 02:57:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 306.93 Mbit/s
  95th percentile per-packet one-way delay: 203.381 ms
  Loss rate: 2.40%
-- Flow 1:
  Average throughput: 182.06 Mbit/s
  95th percentile per-packet one-way delay: 198.190 ms
  Loss rate: 1.27%
-- Flow 2:
  Average throughput: 106.67 Mbit/s
  95th percentile per-packet one-way delay: 204.866 ms
  Loss rate: 2.83%
-- Flow 3:
  Average throughput: 164.77 Mbit/s
  95th percentile per-packet one-way delay: 208.595 ms
  Loss rate: 5.51%
Run 2: Report of PCC-Expr — Data Link

[Graphs showing throughput and packet delay over time for different flows.]
Run 3: Statistics of PCC-Expr

Local clock offset: 0.021 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-21 03:02:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 349.95 Mbit/s
95th percentile per-packet one-way delay: 314.257 ms
Loss rate: 5.41%
-- Flow 1:
Average throughput: 339.21 Mbit/s
95th percentile per-packet one-way delay: 314.627 ms
Loss rate: 5.44%
-- Flow 2:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 206.067 ms
Loss rate: 4.92%
-- Flow 3:
Average throughput: 10.94 Mbit/s
95th percentile per-packet one-way delay: 204.971 ms
Loss rate: 2.72%
Run 3: Report of PCC-Expr — Data Link

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

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

Legend:
- Flow 1 ingress (mean 357.51 Mbit/s) — Flow 1 egress (mean 339.21 Mbit/s)
- Flow 2 ingress (mean 11.31 Mbit/s) — Flow 2 egress (mean 10.81 Mbit/s)
- Flow 3 ingress (mean 11.13 Mbit/s) — Flow 3 egress (mean 10.94 Mbit/s)
Run 4: Statistics of PCC-Expr

Start at: 2018-06-20 23:17:16
End at: 2018-06-20 23:17:46
Local clock offset: 0.445 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-21 03:02:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.67 Mbit/s
95th percentile per-packet one-way delay: 151.432 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 204.99 Mbit/s
95th percentile per-packet one-way delay: 121.505 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 85.20 Mbit/s
95th percentile per-packet one-way delay: 172.297 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 66.059 ms
Loss rate: 1.29%
Run 4: Report of PCC-Expr — Data Link

![Data Link Throughput and Delay Graph](image-url)
Run 5: Statistics of PCC-Expr

End at: 2018-06-20 23:39:50
Local clock offset: 0.04 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-21 03:05:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 378.82 Mbit/s
95th percentile per-packet one-way delay: 308.769 ms
Loss rate: 4.26%

-- Flow 1:
Average throughput: 333.19 Mbit/s
95th percentile per-packet one-way delay: 311.534 ms
Loss rate: 4.57%

-- Flow 2:
Average throughput: 65.82 Mbit/s
95th percentile per-packet one-way delay: 202.496 ms
Loss rate: 1.79%

-- Flow 3:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 206.302 ms
Loss rate: 4.75%
Run 5: Report of PCC-Expr — Data Link
Run 6: Statistics of PCC-Expr

Start at: 2018-06-21 00:01:29
End at: 2018-06-21 00:01:59
Local clock offset: -0.245 ms
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-21 03:05:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 312.51 Mbit/s
95th percentile per-packet one-way delay: 148.923 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 171.18 Mbit/s
95th percentile per-packet one-way delay: 112.830 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 162.98 Mbit/s
95th percentile per-packet one-way delay: 150.026 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 101.09 Mbit/s
95th percentile per-packet one-way delay: 201.458 ms
Loss rate: 4.53%
Run 6: Report of PCC-Expr — Data Link

![Graph showing network performance metrics over time]

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 172.84 Mbps)
  - Flow 1 egress (mean 171.18 Mbps)
  - Flow 2 ingress (mean 165.46 Mbps)
  - Flow 2 egress (mean 162.98 Mbps)
  - Flow 3 ingress (mean 104.84 Mbps)
  - Flow 3 egress (mean 101.09 Mbps)

- **Per-packet one-way delay (ms)**
  - Flow 1 (95th percentile 112.83 ms)
  - Flow 2 (95th percentile 150.03 ms)
  - Flow 3 (95th percentile 201.46 ms)
Run 7: Statistics of PCC-Expr

Start at: 2018-06-21 00:23:26
End at: 2018-06-21 00:23:56
Local clock offset: 0.038 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-21 03:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.89 Mbit/s
95th percentile per-packet one-way delay: 325.830 ms
Loss rate: 5.08%
-- Flow 1:
Average throughput: 279.04 Mbit/s
95th percentile per-packet one-way delay: 329.484 ms
Loss rate: 5.58%
-- Flow 2:
Average throughput: 75.10 Mbit/s
95th percentile per-packet one-way delay: 205.115 ms
Loss rate: 2.13%
-- Flow 3:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 208.966 ms
Loss rate: 5.81%
Run 7: Report of PCC-Expr — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 294.53 Mbps)
- Flow 1 egress (mean 279.04 Mbps)
- Flow 2 ingress (mean 76.35 Mbps)
- Flow 2 egress (mean 75.10 Mbps)
- Flow 3 ingress (mean 6.37 Mbps)
- Flow 3 egress (mean 6.06 Mbps)

![Graph 2: Packet Error Rate (PER)]

- Flow 1 (95th percentile 329.48 ms)
- Flow 2 (95th percentile 205.12 ms)
- Flow 3 (95th percentile 208.97 ms)
Run 8: Statistics of PCC-Expr

Start at: 2018-06-21 00:45:39
End at: 2018-06-21 00:46:09
Local clock offset: -0.377 ms
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-21 03:05:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 334.23 Mbit/s
95th percentile per-packet one-way delay: 207.430 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 242.31 Mbit/s
95th percentile per-packet one-way delay: 204.811 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 134.54 Mbit/s
95th percentile per-packet one-way delay: 209.642 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 7.95 Mbit/s
95th percentile per-packet one-way delay: 213.017 ms
Loss rate: 7.06%
Run 8: Report of PCC-Expr — Data Link

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

- **Flow 1 Ingress** (mean 245.36 Mbit/s)
- **Flow 1 Egress** (mean 242.31 Mbit/s)
- **Flow 2 Ingress** (mean 137.79 Mbit/s)
- **Flow 2 Egress** (mean 134.54 Mbit/s)
- **Flow 3 Ingress** (mean 8.46 Mbit/s)
- **Flow 3 Egress** (mean 7.96 Mbit/s)

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

- **Flow 1** (95th percentile 204.81 ms)
- **Flow 2** (95th percentile 209.64 ms)
- **Flow 3** (95th percentile 213.02 ms)
Run 9: Statistics of PCC-Expr

Start at: 2018-06-21 01:07:48
End at: 2018-06-21 01:08:18
Local clock offset: -0.28 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-21 03:08:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.21 Mbit/s
95th percentile per-packet one-way delay: 211.704 ms
Loss rate: 1.86%
-- Flow 1:
  Average throughput: 222.99 Mbit/s
  95th percentile per-packet one-way delay: 203.883 ms
  Loss rate: 1.51%
-- Flow 2:
  Average throughput: 120.38 Mbit/s
  95th percentile per-packet one-way delay: 212.520 ms
  Loss rate: 2.19%
-- Flow 3:
  Average throughput: 49.88 Mbit/s
  95th percentile per-packet one-way delay: 214.347 ms
  Loss rate: 4.92%
Run 9: Report of PCC-Expr — Data Link

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

- Flow 1 ingress (mean 225.63 Mbit/s)
- Flow 1 egress (mean 222.99 Mbit/s)
- Flow 2 ingress (mean 122.48 Mbit/s)
- Flow 2 egress (mean 120.38 Mbit/s)
- Flow 3 ingress (mean 81.91 Mbit/s)
- Flow 3 egress (mean 49.88 Mbit/s)

![Graph 2: Per-packet delay over time](image2)

- Flow 1 (95th percentile 203.88 ms)
- Flow 2 (95th percentile 212.52 ms)
- Flow 3 (95th percentile 214.35 ms)
Run 10: Statistics of PCC-Expr

Start at: 2018-06-21 01:30:01
End at: 2018-06-21 01:30:31
Local clock offset: 0.454 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.10 Mbit/s
95th percentile per-packet one-way delay: 64.128 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 225.97 Mbit/s
95th percentile per-packet one-way delay: 62.196 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 103.91 Mbit/s
95th percentile per-packet one-way delay: 67.708 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 49.29 Mbit/s
95th percentile per-packet one-way delay: 65.094 ms
Loss rate: 1.30%
Run 10: Report of PCC-Expr — Data Link

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

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 225.76 Mbps)
  - Flow 1 egress (mean 225.97 Mbps)
  - Flow 2 ingress (mean 103.87 Mbps)
  - Flow 2 egress (mean 103.91 Mbps)
  - Flow 3 ingress (mean 49.42 Mbps)
  - Flow 3 egress (mean 49.29 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 62.20 ms)
  - Flow 2 (95th percentile 67.71 ms)
  - Flow 3 (95th percentile 65.09 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-20 21:52:44
End at: 2018-06-20 21:53:14
Local clock offset: -0.4 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 124.01 Mbit/s
  95th percentile per-packet one-way delay: 50.493 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 66.79 Mbit/s
  95th percentile per-packet one-way delay: 50.512 ms
  Loss rate: 0.35%
-- Flow 2:
  Average throughput: 56.47 Mbit/s
  95th percentile per-packet one-way delay: 50.427 ms
  Loss rate: 0.51%
-- Flow 3:
  Average throughput: 53.58 Mbit/s
  95th percentile per-packet one-way delay: 50.503 ms
  Loss rate: 1.12%
Run 1: Report of QUIC Cubic — Data Link

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

Start at: 2018-06-20 22:14:54
End at: 2018-06-20 22:15:24
Local clock offset: -0.023 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.31 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 66.87 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 70.05 Mbit/s
95th percentile per-packet one-way delay: 50.896 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 50.957 ms
Loss rate: 1.08%
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-20 22:36:57
End at: 2018-06-20 22:37:27
Local clock offset: 0.088 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.91 Mbit/s
95th percentile per-packet one-way delay: 50.756 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 66.09 Mbit/s
95th percentile per-packet one-way delay: 49.027 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 65.52 Mbit/s
95th percentile per-packet one-way delay: 49.101 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 50.882 ms
Loss rate: 1.24%
Run 3: Report of QUIC Cubic — Data Link

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

**Throughput (Mbps)**
- Flow 1 ingress (mean 65.06 Mbps)
- Flow 1 egress (mean 66.09 Mbps)
- Flow 2 ingress (mean 65.62 Mbps)
- Flow 2 egress (mean 65.52 Mbps)
- Flow 3 ingress (mean 46.66 Mbps)
- Flow 3 egress (mean 46.56 Mbps)

**Per-packet round-trip delay (ms)**
- Flow 1 (95th percentile 49.03 ms)
- Flow 2 (95th percentile 49.10 ms)
- Flow 3 (95th percentile 50.88 ms)
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-20 22:59:10
End at: 2018-06-20 22:59:40
Local clock offset: -0.354 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.39 Mbit/s
95th percentile per-packet one-way delay: 50.591 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 69.26 Mbit/s
95th percentile per-packet one-way delay: 50.200 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 65.61 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 50.045 ms
Loss rate: 1.24%
Run 4: Report of QUIC Cubic — Data Link

![Graphs showing network performance metrics for different flows over time. The graphs illustrate throughput and per-packet one-way delay for various flows, indicating fluctuations and network conditions.]
Run 5: Statistics of QUIC Cubic

Local clock offset: 0.046 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.76 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 50.946 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 60.81 Mbit/s
95th percentile per-packet one-way delay: 51.106 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 50.794 ms
Loss rate: 1.19%
Run 5: Report of QUIC Cubic — Data Link

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

- **Flow 1 Ingress** (mean 68.14 Mbps)
- **Flow 1 Egress** (mean 68.09 Mbps)
- **Flow 2 Ingress** (mean 60.87 Mbps)
- **Flow 2 Egress** (mean 60.81 Mbps)
- **Flow 3 Ingress** (mean 49.55 Mbps)
- **Flow 3 Egress** (mean 49.47 Mbps)

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

- **Flow 1 95th percentile 50.95 ms**
- **Flow 2 95th percentile 51.11 ms**
- **Flow 3 95th percentile 50.79 ms**

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Run 6: Statistics of QUIC Cubic

Start at: 2018-06-20 23:43:34
End at: 2018-06-20 23:44:04
Local clock offset: 0.098 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.93 Mbit/s
95th percentile per-packet one-way delay: 50.941 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 66.97 Mbit/s
95th percentile per-packet one-way delay: 50.856 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 66.53 Mbit/s
95th percentile per-packet one-way delay: 50.974 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 54.01 Mbit/s
95th percentile per-packet one-way delay: 50.991 ms
Loss rate: 1.10%
Run 6: Report of QUIC Cubic — Data Link
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-21 00:05:40
End at: 2018-06-21 00:06:10
Local clock offset: 0.159 ms
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.32 Mbit/s
95th percentile per-packet one-way delay: 50.985 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 70.31 Mbit/s
95th percentile per-packet one-way delay: 51.025 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 59.07 Mbit/s
95th percentile per-packet one-way delay: 49.095 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 51.07 Mbit/s
95th percentile per-packet one-way delay: 50.682 ms
Loss rate: 1.30%
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-21 00:27:37
End at: 2018-06-21 00:28:07
Local clock offset: -0.287 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.88 Mbit/s
95th percentile per-packet one-way delay: 50.649 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 65.12 Mbit/s
95th percentile per-packet one-way delay: 50.624 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 61.70 Mbit/s
95th percentile per-packet one-way delay: 50.667 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 54.14 Mbit/s
95th percentile per-packet one-way delay: 50.647 ms
Loss rate: 1.10%
Run 8: Report of QUIC Cubic — Data Link

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

- **Throughput (Mbps)**:
  - Flow 1 ingress (mean 65.12 Mbps)
  - Flow 1 egress (mean 65.12 Mbps)
  - Flow 2 ingress (mean 61.75 Mbps)
  - Flow 2 egress (mean 61.70 Mbps)
  - Flow 3 ingress (mean 54.18 Mbps)
  - Flow 3 egress (mean 54.14 Mbps)

- **Per-packet round-trip delay (ms)**:
  - Flow 1 (95th percentile 50.62 ms)
  - Flow 2 (95th percentile 50.67 ms)
  - Flow 3 (95th percentile 50.65 ms)
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-21 00:49:51
End at: 2018-06-21 00:50:21
Local clock offset: 0.059 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-21 03:09:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.95 Mbit/s
95th percentile per-packet one-way delay: 50.936 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 64.30 Mbit/s
95th percentile per-packet one-way delay: 50.774 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 53.76 Mbit/s
95th percentile per-packet one-way delay: 51.174 ms
Loss rate: 1.16%
Run 9: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet round-trip delay vs Time](image2)
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-21 01:11:59
End at: 2018-06-21 01:12:29
Local clock offset: 0.114 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 118.49 Mbit/s
  95th percentile per-packet one-way delay: 50.857 ms
  Loss rate: 0.42%
-- Flow 1:
  Average throughput: 66.61 Mbit/s
  95th percentile per-packet one-way delay: 50.498 ms
  Loss rate: 0.41%
-- Flow 2:
  Average throughput: 62.17 Mbit/s
  95th percentile per-packet one-way delay: 50.917 ms
  Loss rate: 0.12%
-- Flow 3:
  Average throughput: 37.81 Mbit/s
  95th percentile per-packet one-way delay: 50.593 ms
  Loss rate: 1.42%
Run 10: Report of QUIC Cubic — Data Link

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

![Graph 2: Per-packet round-trip delay vs Time](image2.png)
Run 1: Statistics of SCReAM

Start at: 2018-06-20 22:02:37
End at: 2018-06-20 22:03:07
Local clock offset: -0.0 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.095 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.134 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.502 ms
Loss rate: 1.09%
Run 1: Report of SCReAM — Data Link

[Graph showing throughput over time for different flows]

[Graph showing per-packet end-to-end delay for different flows]
Run 2: Statistics of SCReAM

End at: 2018-06-20 22:25:08
Local clock offset: 0.028 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.117 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.259 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.104 ms
Loss rate: 1.09%
Run 2: Report of SCReAM — Data Link

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

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

**Delay (ms):**
- Flow 1 (95th percentile 51.12 ms)
- Flow 2 (95th percentile 49.26 ms)
- Flow 3 (95th percentile 51.10 ms)
Run 3: Statistics of SCReAM

End at: 2018-06-20 22:47:26  
Local clock offset: 0.054 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-21 03:09:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 50.996 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.033 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.413 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.406 ms  
Loss rate: 1.09%
Run 3: Report of SCReAM — Data Link
Run 4: Statistics of SCReAM

Start at: 2018-06-20 23:09:06
End at: 2018-06-20 23:09:36
Local clock offset: 0.41 ms
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.324 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.320 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.333 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.836 ms
Loss rate: 1.09%
Run 4: Report of SCReAM — Data Link

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

- **Throughput (Mbps)**: The graph plots throughput over time for different flows, with each flow represented by a different line color.
- **Time (s)**: The x-axis represents time in seconds, ranging from 0 to 30.
- **Throughput (Mbps)**: The y-axis represents throughput in Mbps, ranging from 0 to 0.25.

- **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 showing packet loss over time for different flows.]

- **Packet Loss (ms)**: The graph plots packet loss over time for different flows, with each flow represented by a different line color.
- **Time (s)**: The x-axis represents time in seconds, ranging from 0 to 30.
- **Packet Loss (ms)**: The y-axis represents packet loss in ms, ranging from 0 to 60.

- **Flow 1 (95th percentile 51.32 ms)**
- **Flow 2 (95th percentile 51.33 ms)**
- **Flow 3 (95th percentile 50.84 ms)**
Run 5: Statistics of SCReAM

End at: 2018-06-20 23:31:44
Local clock offset: 0.093 ms
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.985 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.008 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.894 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.971 ms
Loss rate: 1.09%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-06-20 23:53:26
End at: 2018-06-20 23:53:56
Local clock offset: 0.14 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.972 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.896 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.007 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.994 ms
Loss rate: 1.08%
Run 6: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 50.90 ms)
Flow 2 (95th percentile 51.01 ms)
Flow 3 (95th percentile 50.99 ms)
Run 7: Statistics of SCReAM

Start at: 2018-06-21 00:15:34
End at: 2018-06-21 00:16:04
Local clock offset: 0.475 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 51.389 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.335 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.367 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.510 ms
  Loss rate: 1.09%
Run 7: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

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

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 51.34 ms)  Flow 2 (95th percentile 51.37 ms)  Flow 3 (95th percentile 51.51 ms)
Run 8: Statistics of SCReAM

Start at: 2018-06-21 00:37:34
End at: 2018-06-21 00:38:04
Local clock offset: 0.012 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 51.041 ms
  Loss rate: 0.51%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.020 ms
  Loss rate: 0.26%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 51.064 ms
  Loss rate: 0.61%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.460 ms
  Loss rate: 1.09%
Run 9: Statistics of SCReAM

Start at: 2018-06-21 00:59:47
End at: 2018-06-21 01:00:17
Local clock offset: -0.206 ms
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.806 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.842 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.256 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.247 ms
Loss rate: 1.09%
Run 9: Report of SCReAM — Data Link

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

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

- **Packet loss (ms):**
  - Flow 1 (95th percentile 50.84 ms)
  - Flow 2 (95th percentile 50.26 ms)
  - Flow 3 (95th percentile 50.25 ms)
Run 10: Statistics of SCReAM

Start at: 2018-06-21 01:21:56
End at: 2018-06-21 01:22:26
Local clock offset: 0.088 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 51.064 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.014 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.137 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.933 ms
Loss rate: 0.74%
Run 10: Report of SCReAM — Data Link

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

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

- **Packet Loss Delay (ms):**
  - Flow 1 (95th percentile: 51.01 ms)
  - Flow 2 (95th percentile: 51.14 ms)
  - Flow 3 (95th percentile: 50.93 ms)
Run 1: Statistics of Sprout

Start at: 2018-06-20 22:01:28
End at: 2018-06-20 22:01:58
Local clock offset: 0.038 ms
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 51.688 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 51.629 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 7.27 Mbit/s
95th percentile per-packet one-way delay: 51.784 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 51.677 ms
Loss rate: 1.43%
Run 1: Report of Sprout — Data Link
Run 2: Statistics of Sprout

Local clock offset: 0.008 ms
Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 12.54 Mbit/s
  95th percentile per-packet one-way delay: 51.082 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 6.67 Mbit/s
  95th percentile per-packet one-way delay: 51.222 ms
  Loss rate: 0.29%
-- Flow 2:
  Average throughput: 5.98 Mbit/s
  95th percentile per-packet one-way delay: 50.517 ms
  Loss rate: 0.84%
-- Flow 3:
  Average throughput: 5.81 Mbit/s
  95th percentile per-packet one-way delay: 50.876 ms
  Loss rate: 1.49%
Run 2: Report of Sprout — Data Link
Run 3: Statistics of Sprout

Start at: 2018-06-20 22:45:47
Local clock offset: 0.436 ms
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.86 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 50.505 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 50.114 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 50.360 ms
Loss rate: 1.22%
Run 3: Report of Sprout — Data Link
Run 4: Statistics of Sprout

Start at: 2018-06-20 23:07:57
End at: 2018-06-20 23:08:27
Local clock offset: 0.456 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 12.84 Mbit/s
  95th percentile per-packet one-way delay: 51.416 ms
  Loss rate: 0.52%
-- Flow 1:
  Average throughput: 7.51 Mbit/s
  95th percentile per-packet one-way delay: 51.504 ms
  Loss rate: 0.23%
-- Flow 2:
  Average throughput: 5.19 Mbit/s
  95th percentile per-packet one-way delay: 51.326 ms
  Loss rate: 0.68%
-- Flow 3:
  Average throughput: 5.77 Mbit/s
  95th percentile per-packet one-way delay: 51.008 ms
  Loss rate: 1.34%
Run 4: Report of Sprout — Data Link

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

- Flow 1 ingress (mean 7.50 Mbps/s)
- Flow 1 egress (mean 7.51 Mbps/s)
- Flow 2 ingress (mean 5.20 Mbps/s)
- Flow 2 egress (mean 5.19 Mbps/s)
- Flow 3 ingress (mean 5.79 Mbps/s)
- Flow 3 egress (mean 5.77 Mbps/s)

![Graph 2: Packet Loss (PPL)]

- Flow 1 (99th percentile 51.50 ms)
- Flow 2 (99th percentile 51.33 ms)
- Flow 3 (99th percentile 51.01 ms)
Run 5: Statistics of Sprout

Start at: 2018-06-20 23:30:05
End at: 2018-06-20 23:30:35
Local clock offset: 0.073 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.31 Mbit/s
  95th percentile per-packet one-way delay: 51.755 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 6.56 Mbit/s
  95th percentile per-packet one-way delay: 51.707 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 7.26 Mbit/s
  95th percentile per-packet one-way delay: 51.824 ms
  Loss rate: 0.49%
-- Flow 3:
  Average throughput: 5.91 Mbit/s
  95th percentile per-packet one-way delay: 51.697 ms
  Loss rate: 1.22%
Run 5: Report of Sprout — Data Link
Run 6: Statistics of Sprout

Start at: 2018-06-20 23:52:17
End at: 2018-06-20 23:52:47
Local clock offset: -0.264 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 50.311 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 50.366 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 49.603 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 50.358 ms
Loss rate: 1.50%
Run 6: Report of Sprout — Data Link

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

Start at: 2018-06-21 00:14:25
End at: 2018-06-21 00:14:55
Local clock offset: 0.11 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.11 Mbit/s
95th percentile per-packet one-way delay: 50.672 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 50.743 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 7.23 Mbit/s
95th percentile per-packet one-way delay: 50.318 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 50.875 ms
Loss rate: 1.52%
Run 7: Report of Sprout — Data Link

![Graph showing throughput and packet delivery delay over time.]

- **Flow 1 ingress** (mean 6.96 Mbit/s)
- **Flow 1 egress** (mean 6.96 Mbit/s)
- **Flow 2 ingress** (mean 7.21 Mbit/s)
- **Flow 2 egress** (mean 7.23 Mbit/s)
- **Flow 3 ingress** (mean 7.14 Mbit/s)
- **Flow 3 egress** (mean 7.10 Mbit/s)

![Graph showing packet delivery delay over time.]

- **Flow 1 (95th percentile 50.74 ms)**
- **Flow 2 (95th percentile 50.32 ms)**
- **Flow 3 (95th percentile 50.88 ms)**
Run 8: Statistics of Sprout

Start at: 2018-06-21 00:36:25
End at: 2018-06-21 00:36:55
Local clock offset: -0.365 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.80 Mbit/s
95th percentile per-packet one-way delay: 51.494 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 51.443 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 51.432 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 51.776 ms
Loss rate: 1.12%
Run 8: Report of Sprout — Data Link

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

**Throughput (Mbps)**

- Flow 1 ingress (mean 6.43 Mbps)
- Flow 1 egress (mean 6.43 Mbps)
- Flow 2 ingress (mean 6.49 Mbps)
- Flow 2 egress (mean 6.52 Mbps)
- Flow 3 ingress (mean 6.26 Mbps)
- Flow 3 egress (mean 6.26 Mbps)

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

- Flow 1 (95th percentile 51.44 ms)
- Flow 2 (95th percentile 51.43 ms)
- Flow 3 (95th percentile 51.78 ms)
Run 9: Statistics of Sprout

Start at: 2018-06-21 00:58:38
End at: 2018-06-21 00:59:08
Local clock offset: -0.293 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.62 Mbit/s
95th percentile per-packet one-way delay: 51.290 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 7.11 Mbit/s
95th percentile per-packet one-way delay: 51.213 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 51.374 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 51.358 ms
Loss rate: 1.85%
Run 9: Report of Sprout — Data Link

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

Flow 1 ingress (mean 7.11 Mbit/s)
Flow 1 egress (mean 7.11 Mbit/s)
Flow 2 ingress (mean 7.07 Mbit/s)
Flow 2 egress (mean 7.08 Mbit/s)
Flow 3 ingress (mean 5.57 Mbit/s)
Flow 3 egress (mean 5.55 Mbit/s)
Run 10: Statistics of Sprout

Start at: 2018-06-21 01:20:46
End at: 2018-06-21 01:21:16
Local clock offset: 0.109 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-06-21 03:09:13
# Datalink statistics
-- Total of 3 flows:
 Average throughput: 13.29 Mbit/s
95th percentile per-packet one-way delay: 51.478 ms
 Loss rate: 0.32%
-- Flow 1:
 Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 51.526 ms
 Loss rate: 0.06%
-- Flow 2:
 Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 51.508 ms
 Loss rate: 0.46%
-- Flow 3:
 Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 51.261 ms
 Loss rate: 0.80%
Run 10: Report of Sprout — Data Link

Throughput (Mbit/s)

Time (s)

Flow 1 ingress (mean 6.42 Mbit/s)
Flow 1 egress (mean 6.43 Mbit/s)
Flow 2 ingress (mean 6.99 Mbit/s)
Flow 2 egress (mean 7.00 Mbit/s)
Flow 3 ingress (mean 6.72 Mbit/s)
Flow 3 egress (mean 6.74 Mbit/s)

Per packet one way delay [ms]

Time (s)

Flow 1 (95th percentile 51.53 ms)
Flow 2 (95th percentile 51.51 ms)
Flow 3 (95th percentile 51.26 ms)
Run 1: Statistics of TaoVA-100x

Local clock offset: 0.058 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2018-06-21 03:15:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.93 Mbit/s
95th percentile per-packet one-way delay: 54.103 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 152.02 Mbit/s
95th percentile per-packet one-way delay: 52.588 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 134.85 Mbit/s
95th percentile per-packet one-way delay: 55.957 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.69 Mbit/s
95th percentile per-packet one-way delay: 58.375 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

Throughput (Mb/s)

Time (s)

Flow 1 ingress (mean 151.81 Mb/s) — Flow 1 egress (mean 152.02 Mb/s)
Flow 2 ingress (mean 135.02 Mb/s) — Flow 2 egress (mean 134.85 Mb/s)
Flow 3 ingress (mean 83.26 Mb/s) — Flow 3 egress (mean 82.69 Mb/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 52.59 ms) — Flow 2 (95th percentile 55.96 ms) — Flow 3 (95th percentile 58.38 ms)
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-20 22:17:31
End at: 2018-06-20 22:18:01
Local clock offset: 0.03 ms
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-21 03:16:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 230.86 Mbit/s
95th percentile per-packet one-way delay: 55.147 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 136.11 Mbit/s
95th percentile per-packet one-way delay: 53.414 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 111.11 Mbit/s
95th percentile per-packet one-way delay: 56.611 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 57.028 ms
Loss rate: 2.60%
Run 2: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 136.12 Mb/s)
- Flow 1 egress (mean 136.11 Mb/s)
- Flow 2 ingress (mean 111.24 Mb/s)
- Flow 2 egress (mean 111.11 Mb/s)
- Flow 3 ingress (mean 64.28 Mb/s)
- Flow 3 egress (mean 63.26 Mb/s)

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

- Flow 1 (95th percentile 53.41 ms)
- Flow 2 (95th percentile 56.61 ms)
- Flow 3 (95th percentile 57.03 ms)
Run 3: Statistics of TaoVA-100x

End at: 2018-06-20 22:40:05
Local clock offset: 0.048 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-21 03:16:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 246.37 Mbit/s
  95th percentile per-packet one-way delay: 55.108 ms
  Loss rate: 0.46%
-- Flow 1:
  Average throughput: 125.83 Mbit/s
  95th percentile per-packet one-way delay: 52.781 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 111.69 Mbit/s
  95th percentile per-packet one-way delay: 57.022 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 140.29 Mbit/s
  95th percentile per-packet one-way delay: 59.867 ms
  Loss rate: 0.88%
Run 3: Report of TaoVA-100x — Data Link

![Graph of Throughput](image1)

- **Flow 1 ingress (mean 125.80 Mbit/s)**
- **Flow 1 egress (mean 125.83 Mbit/s)**
- **Flow 2 ingress (mean 111.59 Mbit/s)**
- **Flow 2 egress (mean 111.69 Mbit/s)**
- **Flow 3 ingress (mean 140.09 Mbit/s)**
- **Flow 3 egress (mean 140.29 Mbit/s)**

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

- **Flow 1 (95th percentile 52.78 ms)**
- **Flow 2 (95th percentile 57.02 ms)**
- **Flow 3 (95th percentile 59.87 ms)**
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-20 23:01:47
End at: 2018-06-20 23:02:17
Local clock offset: 0.086 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-21 03:17:18
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 269.73 Mbit/s
  95th percentile per-packet one-way delay: 52.029 ms
  Loss rate: 0.34%
-- Flow 1:
  Average throughput: 114.50 Mbit/s
  95th percentile per-packet one-way delay: 51.317 ms
  Loss rate: 0.44%
-- Flow 2:
  Average throughput: 202.97 Mbit/s
  95th percentile per-packet one-way delay: 52.165 ms
  Loss rate: 0.31%
-- Flow 3:
  Average throughput: 63.62 Mbit/s
  95th percentile per-packet one-way delay: 54.256 ms
  Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

Graph showing throughput and per-packet one-way delay over time for different flows.
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-20 23:24:00
End at: 2018-06-20 23:24:30
Local clock offset: -0.328 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-21 03:17:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.92 Mbit/s
95th percentile per-packet one-way delay: 56.967 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 118.69 Mbit/s
95th percentile per-packet one-way delay: 52.117 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 55.271 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 149.48 Mbit/s
95th percentile per-packet one-way delay: 62.615 ms
Loss rate: 0.67%
Run 6: Statistics of TaoVA-100x

End at: 2018-06-20 23:46:41
Local clock offset: 0.121 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2018-06-21 03:17:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.09 Mbit/s
95th percentile per-packet one-way delay: 52.947 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 104.18 Mbit/s
95th percentile per-packet one-way delay: 51.806 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 164.04 Mbit/s
95th percentile per-packet one-way delay: 53.420 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 62.86 Mbit/s
95th percentile per-packet one-way delay: 56.508 ms
Loss rate: 2.50%
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-21 00:08:16
End at: 2018-06-21 00:08:46
Local clock offset: -0.223 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-21 03:17:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.35 Mbit/s
95th percentile per-packet one-way delay: 53.308 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 160.91 Mbit/s
95th percentile per-packet one-way delay: 52.183 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 98.91 Mbit/s
95th percentile per-packet one-way delay: 55.400 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 102.25 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 1.51%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-21 00:30:12
End at: 2018-06-21 00:30:42
Local clock offset: 0.043 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-21 03:17:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.19 Mbit/s
95th percentile per-packet one-way delay: 52.670 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 206.20 Mbit/s
95th percentile per-packet one-way delay: 52.201 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 124.40 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 105.12 Mbit/s
95th percentile per-packet one-way delay: 53.822 ms
Loss rate: 2.60%
Run 8: Report of TaoVA-100x — Data Link
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-21 00:52:27
End at: 2018-06-21 00:52:57
Local clock offset: 0.065 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-21 03:23:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 248.14 Mbit/s
95th percentile per-packet one-way delay: 53.234 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 164.73 Mbit/s
95th percentile per-packet one-way delay: 52.767 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 128.60 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.81 Mbit/s
95th percentile per-packet one-way delay: 59.530 ms
Loss rate: 0.56%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-21 01:14:33
End at: 2018-06-21 01:15:03
Local clock offset: -0.255 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 257.93 Mbit/s
95th percentile per-packet one-way delay: 51.536 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 148.68 Mbit/s
95th percentile per-packet one-way delay: 50.809 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 145.35 Mbit/s
95th percentile per-packet one-way delay: 52.247 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 54.589 ms
Loss rate: 0.34%
Run 10: Report of TaoVA-100x — Data Link

![Graphs showing throughput and ping results over time for different flows.](image-url)
Run 1: Statistics of TCP Vegas

Start at: 2018-06-20 22:06:52
End at: 2018-06-20 22:07:22
Local clock offset: 0.052 ms
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 259.52 Mbit/s
95th percentile per-packet one-way delay: 58.890 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 182.47 Mbit/s
95th percentile per-packet one-way delay: 58.374 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 48.05 Mbit/s
95th percentile per-packet one-way delay: 58.851 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 136.70 Mbit/s
95th percentile per-packet one-way delay: 59.969 ms
Loss rate: 1.11%
Run 1: Report of TCP Vegas — Data Link

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

- Flow 1 ingress (mean 182.51 Mbit/s)
- Flow 1 egress (mean 182.47 Mbit/s)
- Flow 2 ingress (mean 48.08 Mbit/s)
- Flow 2 egress (mean 48.05 Mbit/s)
- Flow 3 ingress (mean 136.83 Mbit/s)
- Flow 3 egress (mean 136.70 Mbit/s)
Run 2: Statistics of TCP Vegas

Local clock offset: 0.017 ms
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.54 Mbit/s
95th percentile per-packet one-way delay: 61.286 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 219.63 Mbit/s
95th percentile per-packet one-way delay: 61.203 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 68.22 Mbit/s
95th percentile per-packet one-way delay: 61.828 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 4.72 Mbit/s
95th percentile per-packet one-way delay: 62.454 ms
Loss rate: 2.37%
Run 3: Statistics of TCP Vegas

End at: 2018-06-20 22:51:42
Local clock offset: 0.444 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.72 Mbit/s
95th percentile per-packet one-way delay: 60.451 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 55.02 Mbit/s
95th percentile per-packet one-way delay: 58.911 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 58.571 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 215.52 Mbit/s
95th percentile per-packet one-way delay: 61.010 ms
Loss rate: 1.12%
Run 3: Report of TCP Vegas — Data Link

[Graph showing network throughput and packet delay over time for three flows.]
Run 4: Statistics of TCP Vegas

End at: 2018-06-20 23:13:52
Local clock offset: -0.334 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.19 Mbit/s
95th percentile per-packet one-way delay: 51.562 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 166.62 Mbit/s
95th percentile per-packet one-way delay: 51.573 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 85.95 Mbit/s
95th percentile per-packet one-way delay: 51.482 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 43.70 Mbit/s
95th percentile per-packet one-way delay: 51.783 ms
Loss rate: 1.14%
Run 4: Report of TCP Vegas — Data Link

![TCP Vegas Throughput](image1)

![TCP Vegas Packet Delay](image2)

Flow 1 ingress (mean 166.61 Mbit/s) - Flow 1 egress (mean 166.62 Mbit/s)
Flow 2 ingress (mean 85.97 Mbit/s) - Flow 2 egress (mean 85.95 Mbit/s)
Flow 3 ingress (mean 43.76 Mbit/s) - Flow 3 egress (mean 43.70 Mbit/s)
Run 5: Statistics of TCP Vegas

Start at: 2018-06-20 23:35:29
End at: 2018-06-20 23:35:59
Local clock offset: 0.039 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 62.470 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 99.44 Mbit/s
95th percentile per-packet one-way delay: 58.778 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 59.300 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 211.59 Mbit/s
95th percentile per-packet one-way delay: 64.199 ms
Loss rate: 1.14%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-06-20 23:57:40
End at: 2018-06-20 23:58:10
Local clock offset: 0.53 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 163.90 Mbit/s
  95th percentile per-packet one-way delay: 52.897 ms
  Loss rate: 0.44%
-- Flow 1:
  Average throughput: 112.71 Mbit/s
  95th percentile per-packet one-way delay: 52.915 ms
  Loss rate: 0.30%
-- Flow 2:
  Average throughput: 54.84 Mbit/s
  95th percentile per-packet one-way delay: 52.539 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 44.71 Mbit/s
  95th percentile per-packet one-way delay: 54.287 ms
  Loss rate: 1.16%
Run 6: Report of TCP Vegas — Data Link

**Throughput (Mb/s)**

- Flow 1 ingress (mean 112.67 Mb/s)
- Flow 1 egress (mean 112.71 Mb/s)
- Flow 2 ingress (mean 54.90 Mb/s)
- Flow 2 egress (mean 54.84 Mb/s)
- Flow 3 ingress (mean 44.78 Mb/s)
- Flow 3 egress (mean 44.71 Mb/s)

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

- Flow 1 (95th percentile 52.91 ms)
- Flow 2 (95th percentile 52.54 ms)
- Flow 3 (95th percentile 54.29 ms)
Run 7: Statistics of TCP Vegas

Start at: 2018-06-21 00:19:35
End at: 2018-06-21 00:20:05
Local clock offset: 0.113 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-21 03:24:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.46 Mbit/s
95th percentile per-packet one-way delay: 66.522 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 100.16 Mbit/s
95th percentile per-packet one-way delay: 64.519 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 187.18 Mbit/s
95th percentile per-packet one-way delay: 68.002 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 57.976 ms
Loss rate: 2.07%
Run 7: Report of TCP Vegas — Data Link
Run 8: Statistics of TCP Vegas

Start at: 2018-06-21 00:41:47
End at: 2018-06-21 00:42:17
Local clock offset: -0.32 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-21 03:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 222.68 Mbit/s
95th percentile per-packet one-way delay: 52.858 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 170.57 Mbit/s
95th percentile per-packet one-way delay: 52.714 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 52.966 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 134.32 Mbit/s
95th percentile per-packet one-way delay: 53.282 ms
Loss rate: 1.12%
Run 8: Report of TCP Vegas — Data Link

Graph showing throughput over time and per-packet one-way delay for Flow 1, Flow 2, and Flow 3.
Run 9: Statistics of TCP Vegas

Start at: 2018-06-21 01:04:02
End at: 2018-06-21 01:04:32
Local clock offset: 0.1 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-21 03:24:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.94 Mbit/s
95th percentile per-packet one-way delay: 53.098 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 65.75 Mbit/s
95th percentile per-packet one-way delay: 52.934 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 12.17 Mbit/s
95th percentile per-packet one-way delay: 52.317 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 70.06 Mbit/s
95th percentile per-packet one-way delay: 54.154 ms
Loss rate: 0.97%
Run 9: Report of TCP Vegas — Data Link

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

- Blue line: Flow 1 ingress (mean 65.76 Mbit/s)
- Blue dotted line: Flow 1 egress (mean 65.75 Mbit/s)
- Green line: Flow 2 ingress (mean 12.23 Mbit/s)
- Green dotted line: Flow 2 egress (mean 12.17 Mbit/s)
- Red line: Flow 3 ingress (mean 70.03 Mbit/s)
- Red dotted line: Flow 3 egress (mean 70.06 Mbit/s)

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

- Blue dots: Flow 1 (95th percentile 52.93 ms)
- Green dots: Flow 2 (95th percentile 52.32 ms)
- Red dots: Flow 3 (95th percentile 54.15 ms)
Run 10: Statistics of TCP Vegas

Start at: 2018-06-21 01:26:09
End at: 2018-06-21 01:26:39
Local clock offset: 0.078 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-21 03:25:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.37 Mbit/s
95th percentile per-packet one-way delay: 57.955 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 187.93 Mbit/s
95th percentile per-packet one-way delay: 57.732 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 79.56 Mbit/s
95th percentile per-packet one-way delay: 58.736 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 80.53 Mbit/s
95th percentile per-packet one-way delay: 58.271 ms
Loss rate: 1.10%
Run 1: Statistics of Verus

Start at: 2018-06-20 22:05:22
End at: 2018-06-20 22:05:52
Local clock offset: -0.369 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-21 03:26:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.67 Mbit/s
95th percentile per-packet one-way delay: 211.512 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 193.81 Mbit/s
95th percentile per-packet one-way delay: 190.189 ms
Loss rate: 2.49%
-- Flow 2:
Average throughput: 146.41 Mbit/s
95th percentile per-packet one-way delay: 236.858 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 123.57 Mbit/s
95th percentile per-packet one-way delay: 206.724 ms
Loss rate: 3.43%
Run 1: Report of Verus — Data Link
Run 2: Statistics of Verus

Local clock offset: 0.018 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2018-06-21 03:26:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.91 Mbit/s
95th percentile per-packet one-way delay: 141.734 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 200.37 Mbit/s
95th percentile per-packet one-way delay: 128.984 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 131.60 Mbit/s
95th percentile per-packet one-way delay: 143.303 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 73.62 Mbit/s
95th percentile per-packet one-way delay: 198.560 ms
Loss rate: 1.16%
Run 2: Report of Verus — Data Link

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

- Flow 1 ingress (mean 200.54 Mbit/s)
- Flow 1 egress (mean 200.37 Mbit/s)
- Flow 2 ingress (mean 132.44 Mbit/s)
- Flow 2 egress (mean 131.60 Mbit/s)
- Flow 3 ingress (mean 73.50 Mbit/s)
- Flow 3 egress (mean 73.62 Mbit/s)
Run 3: Statistics of Verus

Local clock offset: 0.053 ms
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2018-06-21 03:28:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.04 Mbit/s
95th percentile per-packet one-way delay: 140.373 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 191.95 Mbit/s
95th percentile per-packet one-way delay: 129.287 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 119.58 Mbit/s
95th percentile per-packet one-way delay: 135.156 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 136.73 Mbit/s
95th percentile per-packet one-way delay: 163.558 ms
Loss rate: 0.77%
Run 3: Report of Verus — Data Link

![Graphs showing network performance metrics over time.](image-url)
Run 4: Statistics of Verus

Start at: 2018-06-20 23:11:54
End at: 2018-06-20 23:12:24
Local clock offset: 0.064 ms
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-06-21 03:29:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 309.94 Mbit/s
95th percentile per-packet one-way delay: 169.023 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 234.69 Mbit/s
95th percentile per-packet one-way delay: 162.576 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 166.949 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 122.78 Mbit/s
95th percentile per-packet one-way delay: 184.062 ms
Loss rate: 1.32%
Run 5: Statistics of Verus

Start at: 2018-06-20 23:34:00
End at: 2018-06-20 23:34:30
Local clock offset: -0.315 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-06-21 03:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 319.04 Mbit/s
95th percentile per-packet one-way delay: 168.316 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 222.35 Mbit/s
95th percentile per-packet one-way delay: 167.379 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 101.13 Mbit/s
95th percentile per-packet one-way delay: 169.371 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 90.00 Mbit/s
95th percentile per-packet one-way delay: 201.111 ms
Loss rate: 2.14%
Run 5: Report of Verus — Data Link

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

```
Flow 1 ingress (mean 223.02 Mbit/s)  Flow 1 egress (mean 222.35 Mbit/s)
Flow 2 ingress (mean 100.87 Mbit/s)  Flow 2 egress (mean 101.13 Mbit/s)
Flow 3 ingress (mean 90.40 Mbit/s)  Flow 3 egress (mean 90.00 Mbit/s)
```

```
Flow 1 (95th percentile 167.38 ms)  Flow 2 (95th percentile 169.37 ms)  Flow 3 (95th percentile 201.11 ms)
```
Run 6: Statistics of Verus

Start at: 2018-06-20 23:56:11
End at: 2018-06-20 23:56:41
Local clock offset: -0.226 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-21 03:29:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 311.55 Mbit/s
  95th percentile per-packet one-way delay: 166.640 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 226.27 Mbit/s
  95th percentile per-packet one-way delay: 159.833 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 96.90 Mbit/s
  95th percentile per-packet one-way delay: 179.615 ms
  Loss rate: 1.36%
-- Flow 3:
  Average throughput: 64.32 Mbit/s
  95th percentile per-packet one-way delay: 182.254 ms
  Loss rate: 1.50%
Run 6: Report of Verus — Data Link
Run 7: Statistics of Verus

Start at: 2018-06-21 00:18:06
End at: 2018-06-21 00:18:36
Local clock offset: 0.097 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-21 03:30:04
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 320.68 Mbit/s
  95th percentile per-packet one-way delay: 159.775 ms
  Loss rate: 0.78%
-- Flow 1:
  Average throughput: 176.59 Mbit/s
  95th percentile per-packet one-way delay: 206.340 ms
  Loss rate: 0.74%
-- Flow 2:
  Average throughput: 182.91 Mbit/s
  95th percentile per-packet one-way delay: 142.078 ms
  Loss rate: 0.60%
-- Flow 3:
  Average throughput: 69.91 Mbit/s
  95th percentile per-packet one-way delay: 172.053 ms
  Loss rate: 2.06%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-06-21 00:40:20
End at: 2018-06-21 00:40:50
Local clock offset: 0.036 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-21 03:31:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.52 Mbit/s
95th percentile per-packet one-way delay: 171.774 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 202.03 Mbit/s
95th percentile per-packet one-way delay: 158.957 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 103.61 Mbit/s
95th percentile per-packet one-way delay: 174.741 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 86.90 Mbit/s
95th percentile per-packet one-way delay: 193.578 ms
Loss rate: 3.73%
Run 8: Report of Verus — Data Link

![Graph showing throughput and packet delay over time for different flows with mean rates and percentile delays.](image)
Run 9: Statistics of Verus

Start at: 2018-06-21 01:02:32
End at: 2018-06-21 01:03:02
Local clock offset: 0.468 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-06-21 03:32:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 330.85 Mbit/s
95th percentile per-packet one-way delay: 209.780 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 271.92 Mbit/s
95th percentile per-packet one-way delay: 211.764 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 202.255 ms
Loss rate: 2.98%
-- Flow 3:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 202.760 ms
Loss rate: 3.84%
Run 9: Report of Verus — Data Link

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

- Flow 1 ingress (mean 280.03 Mbit/s)
- Flow 1 egress (mean 271.92 Mbit/s)
- Flow 2 ingress (mean 65.06 Mbit/s)
- Flow 2 egress (mean 63.56 Mbit/s)
- Flow 3 ingress (mean 53.16 Mbit/s)
- Flow 3 egress (mean 57.48 Mbit/s)

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

- Flow 1 (95th percentile 211.76 ms)
- Flow 2 (95th percentile 202.25 ms)
- Flow 3 (95th percentile 202.76 ms)
Run 10: Statistics of Verus

Start at: 2018-06-21 01:24:41
End at: 2018-06-21 01:25:11
Local clock offset: 0.093 ms
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-06-21 03:32:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.68 Mbit/s
95th percentile per-packet one-way delay: 142.039 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 193.13 Mbit/s
95th percentile per-packet one-way delay: 135.602 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 129.82 Mbit/s
95th percentile per-packet one-way delay: 146.649 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 150.814 ms
Loss rate: 2.76%
Run 10: Report of Verus — Data Link

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

- **Flow 1 ingress** (mean 192.49 Mbit/s)
- **Flow 1 egress** (mean 193.13 Mbit/s)
- **Flow 2 ingress** (mean 130.00 Mbit/s)
- **Flow 2 egress** (mean 129.82 Mbit/s)
- **Flow 3 ingress** (mean 97.77 Mbit/s)
- **Flow 3 egress** (mean 96.07 Mbit/s)

*Graph 1: Throughput (Mbit/s) over time (s)*

*Graph 2: Per-packet one-way delay (ms) over time (s)*

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Run 1: Statistics of PCC-Vivace

Start at: 2018-06-20 22:03:44
End at: 2018-06-20 22:04:14
Local clock offset: 0.376 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-06-21 03:36:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 445.87 Mbit/s
95th percentile per-packet one-way delay: 52.005 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 259.77 Mbit/s
95th percentile per-packet one-way delay: 51.946 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 236.48 Mbit/s
95th percentile per-packet one-way delay: 52.186 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 89.04 Mbit/s
95th percentile per-packet one-way delay: 51.607 ms
Loss rate: 1.35%
Run 1: Report of PCC-Vivace — Data Link

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

End at: 2018-06-20 22:26:16
Local clock offset: -0.353 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-06-21 03:38:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 510.24 Mbit/s
95th percentile per-packet one-way delay: 52.532 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 275.13 Mbit/s
95th percentile per-packet one-way delay: 49.868 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 265.61 Mbit/s
95th percentile per-packet one-way delay: 74.106 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 179.57 Mbit/s
95th percentile per-packet one-way delay: 51.012 ms
Loss rate: 1.46%
Run 2: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 274.79 Mbps)
- Flow 1 egress (mean 275.13 Mbps)
- Flow 2 ingress (mean 265.32 Mbps)
- Flow 2 egress (mean 265.61 Mbps)
- Flow 3 ingress (mean 180.35 Mbps)
- Flow 3 egress (mean 179.57 Mbps)

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

- Flow 1 (95th percentile 49.87 ms)
- Flow 2 (95th percentile 74.11 ms)
- Flow 3 (95th percentile 51.01 ms)
Run 3: Statistics of PCC-Vivace

End at: 2018-06-20 22:48:34
Local clock offset: -0.299 ms
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-21 03:38:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 467.65 Mbit/s
  95th percentile per-packet one-way delay: 52.750 ms
  Loss rate: 0.36%
-- Flow 1:
  Average throughput: 276.08 Mbit/s
  95th percentile per-packet one-way delay: 50.420 ms
  Loss rate: 0.27%
-- Flow 2:
  Average throughput: 270.38 Mbit/s
  95th percentile per-packet one-way delay: 67.849 ms
  Loss rate: 0.43%
-- Flow 3:
  Average throughput: 36.95 Mbit/s
  95th percentile per-packet one-way delay: 50.687 ms
  Loss rate: 1.27%
Run 3: Report of PCC-Vivace — Data Link
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-20 23:10:14
End at: 2018-06-20 23:10:44
Local clock offset: 0.061 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-21 03:38:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.20 Mbit/s
95th percentile per-packet one-way delay: 51.559 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 264.07 Mbit/s
95th percentile per-packet one-way delay: 51.346 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 246.32 Mbit/s
95th percentile per-packet one-way delay: 51.422 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 142.18 Mbit/s
95th percentile per-packet one-way delay: 54.309 ms
Loss rate: 1.21%
Run 4: Report of PCC-Vivace — Data Link

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

Legend:
- Flow 1 ingress (mean 263.96 Mbit/s)
- Flow 1 egress (mean 264.07 Mbit/s)
- Flow 2 ingress (mean 246.18 Mbit/s)
- Flow 2 egress (mean 246.32 Mbit/s)
- Flow 3 ingress (mean 142.45 Mbit/s)
- Flow 3 egress (mean 142.18 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 51.35 ms)
- Flow 2 (95th percentile 51.42 ms)
- Flow 3 (95th percentile 54.31 ms)
Run 5: Statistics of PCC-Vivace

End at: 2018-06-20 23:32:52
Local clock offset: 0.046 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-06-21 03:38:44
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 446.38 Mbit/s
  95th percentile per-packet one-way delay: 51.575 ms
  Loss rate: 0.49%
-- Flow 1:
  Average throughput: 263.49 Mbit/s
  95th percentile per-packet one-way delay: 51.355 ms
  Loss rate: 0.32%
-- Flow 2:
  Average throughput: 235.96 Mbit/s
  95th percentile per-packet one-way delay: 51.964 ms
  Loss rate: 0.67%
-- Flow 3:
  Average throughput: 80.25 Mbit/s
  95th percentile per-packet one-way delay: 51.176 ms
  Loss rate: 1.16%
Run 5: Report of PCC-Vivace — Data Link
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-20 23:54:34
Local clock offset: 0.493 ms
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-06-21 03:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 434.84 Mbit/s
95th percentile per-packet one-way delay: 52.410 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 238.11 Mbit/s
95th percentile per-packet one-way delay: 51.924 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 249.02 Mbit/s
95th percentile per-packet one-way delay: 53.697 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 57.040 ms
Loss rate: 2.06%
Run 6: Report of PCC-Vivace — Data Link

Throughput (Mb/s)

Flow 1 ingress (mean 238.55 Mb/s)  Flow 1 egress (mean 238.11 Mb/s)
Flow 2 ingress (mean 249.24 Mb/s)  Flow 2 egress (mean 249.02 Mb/s)
Flow 3 ingress (mean 96.93 Mb/s)  Flow 3 egress (mean 95.92 Mb/s)

Per-packet one-way delay (ms)

Flow 1 (95th percentile 51.92 ms)  Flow 2 (95th percentile 53.70 ms)  Flow 3 (95th percentile 57.04 ms)
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-21 00:16:42
End at: 2018-06-21 00:17:12
Local clock offset: 0.1 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-21 03:39:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.46 Mbit/s
95th percentile per-packet one-way delay: 51.515 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 51.354 ms
Loss rate: 1.41%
-- Flow 2:
Average throughput: 232.47 Mbit/s
95th percentile per-packet one-way delay: 51.624 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 162.83 Mbit/s
95th percentile per-packet one-way delay: 50.716 ms
Loss rate: 1.24%
Run 7: Report of PCC-Vivace — Data Link
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-21 00:38:42
End at: 2018-06-21 00:39:12
Local clock offset: -0.019 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-21 03:39:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 441.31 Mbit/s
95th percentile per-packet one-way delay: 51.483 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 282.19 Mbit/s
95th percentile per-packet one-way delay: 51.522 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 210.87 Mbit/s
95th percentile per-packet one-way delay: 51.469 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 58.37 Mbit/s
95th percentile per-packet one-way delay: 50.624 ms
Loss rate: 2.55%
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-21 01:00:55
End at: 2018-06-21 01:01:25
Local clock offset: 0.111 ms
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-21 03:40:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 439.00 Mbit/s
95th percentile per-packet one-way delay: 51.655 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 266.60 Mbit/s
95th percentile per-packet one-way delay: 51.712 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 244.85 Mbit/s
95th percentile per-packet one-way delay: 51.660 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 50.666 ms
Loss rate: 1.75%
Run 9: Report of PCC-Vivace — Data Link
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-21 01:23:03
End at: 2018-06-21 01:23:33
Local clock offset: 0.096 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 435.01 Mbit/s
95th percentile per-packet one-way delay: 53.005 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 261.59 Mbit/s
95th percentile per-packet one-way delay: 53.081 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 243.26 Mbit/s
95th percentile per-packet one-way delay: 53.107 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 50.532 ms
Loss rate: 1.97%
Run 10: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 261.16 Mbit/s)
- Flow 2 ingress (mean 243.84 Mbit/s)
- Flow 3 ingress (mean 36.73 Mbit/s)
- Flow 1 egress (mean 261.59 Mbit/s)
- Flow 2 egress (mean 243.26 Mbit/s)
- Flow 3 egress (mean 36.39 Mbit/s)

- Flow 1 (95th percentile 53.08 ms)
- Flow 2 (95th percentile 53.11 ms)
- Flow 3 (95th percentile 50.53 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-06-20 22:09:36
End at: 2018-06-20 22:10:06
Local clock offset: -0.327 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.52 Mbit/s
  95th percentile per-packet one-way delay: 50.675 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 1.68 Mbit/s
  95th percentile per-packet one-way delay: 50.726 ms
  Loss rate: 0.54%
-- Flow 2:
  Average throughput: 1.32 Mbit/s
  95th percentile per-packet one-way delay: 50.639 ms
  Loss rate: 0.54%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 50.584 ms
  Loss rate: 1.12%
Run 1: Report of WebRTC media — Data Link

**Throughput (Mbps)**

- **Flow 1 ingress (mean 1.68 Mbps)**
- **Flow 1 egress (mean 1.68 Mbps)**
- **Flow 2 ingress (mean 1.32 Mbps)**
- **Flow 2 egress (mean 1.32 Mbps)**
- **Flow 3 ingress (mean 0.55 Mbps)**
- **Flow 3 egress (mean 0.55 Mbps)**

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

- **Flow 1 (95th percentile 50.73 ms)**
- **Flow 2 (95th percentile 50.64 ms)**
- **Flow 3 (95th percentile 50.58 ms)**

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Run 2: Statistics of WebRTC media

End at: 2018-06-20 22:32:09
Local clock offset: 0.392 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.89 Mbit/s
  95th percentile per-packet one-way delay: 51.405 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 2.04 Mbit/s
  95th percentile per-packet one-way delay: 49.553 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 1.33 Mbit/s
  95th percentile per-packet one-way delay: 51.644 ms
  Loss rate: 0.74%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 49.574 ms
  Loss rate: 1.30%
Run 2: Report of WebRTC media — Data Link

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

Flow 1 ingress (mean 2.04 Mbit/s)  |  Flow 1 egress (mean 2.04 Mbit/s)
Flow 2 ingress (mean 1.33 Mbit/s)  |  Flow 2 egress (mean 1.33 Mbit/s)
Flow 3 ingress (mean 0.55 Mbit/s)  |  Flow 3 egress (mean 0.55 Mbit/s)

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

Flow 1 (95th percentile 49.55 ms)  |  Flow 2 (95th percentile 51.64 ms)  |  Flow 3 (95th percentile 49.57 ms)
Run 3: Statistics of WebRTC media

End at: 2018-06-20 22:54:21
Local clock offset: 0.091 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.84 Mbit/s
  95th percentile per-packet one-way delay: 51.082 ms
  Loss rate: 0.66%
-- Flow 1:
  Average throughput: 2.00 Mbit/s
  95th percentile per-packet one-way delay: 51.106 ms
  Loss rate: 0.38%
-- Flow 2:
  Average throughput: 1.31 Mbit/s
  95th percentile per-packet one-way delay: 51.046 ms
  Loss rate: 0.75%
-- Flow 3:
  Average throughput: 0.55 Mbit/s
  95th percentile per-packet one-way delay: 50.759 ms
  Loss rate: 1.44%
Run 3: Report of WebRTC media — Data Link

![Graph 1](Image 134x427 to 477x642)

![Graph 2](Image 134x214 to 477x402)
Run 4: Statistics of WebRTC media

Start at: 2018-06-20 23:16:07
End at: 2018-06-20 23:16:37
Local clock offset: 0.065 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 51.056 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 50.639 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 1.73%
Run 4: Report of WebRTC media — Data Link

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

Throughput (Mbps)

Time (s)

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

Packet round-trip time (ms)

Time (s)

- Flow 1 (95th percentile 51.02 ms)
- Flow 2 (95th percentile 50.64 ms)
- Flow 3 (95th percentile 51.17 ms)
Run 5: Statistics of WebRTC media

Start at: 2018-06-20 23:38:12
End at: 2018-06-20 23:38:42
Local clock offset: 0.075 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 51.046 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 51.095 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 49.947 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 51.043 ms
Loss rate: 1.16%
Run 5: Report of WebRTC media — Data Link

![Throughput Graph]

- **Flow 1 ingress (mean 2.02 Mbit/s)**
- **Flow 1 egress (mean 2.02 Mbit/s)**
- **Flow 2 ingress (mean 1.11 Mbit/s)**
- **Flow 2 egress (mean 1.30 Mbit/s)**
- **Flow 3 ingress (mean 0.53 Mbit/s)**
- **Flow 3 egress (mean 0.53 Mbit/s)**

![Packet Delay Graph]

- **Flow 1 (95th percentile 51.09 ms)**
- **Flow 2 (95th percentile 49.95 ms)**
- **Flow 3 (95th percentile 51.04 ms)**
Run 6: Statistics of WebRTC media

Start at: 2018-06-21 00:00:21
End at: 2018-06-21 00:00:51
Local clock offset: 0.156 ms
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 51.063 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 51.037 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 51.059 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 51.172 ms
Loss rate: 1.14%
Run 6: Report of WebRTC media — Data Link
Run 7: Statistics of WebRTC media

Start at: 2018-06-21 00:22:18
End at: 2018-06-21 00:22:48
Local clock offset: 0.078 ms
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 3.84 Mbit/s
  95th percentile per-packet one-way delay: 50.974 ms
  Loss rate: 0.63%
-- Flow 1:
  Average throughput: 2.01 Mbit/s
  95th percentile per-packet one-way delay: 50.999 ms
  Loss rate: 0.47%
-- Flow 2:
  Average throughput: 1.32 Mbit/s
  95th percentile per-packet one-way delay: 50.568 ms
  Loss rate: 0.50%
-- Flow 3:
  Average throughput: 0.53 Mbit/s
  95th percentile per-packet one-way delay: 50.898 ms
  Loss rate: 1.60%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-06-21 00:44:31
End at: 2018-06-21 00:45:01
Local clock offset: 0.021 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 50.849 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 50.561 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 50.620 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 51.208 ms
Loss rate: 1.21%
Run 8: Report of WebRTC media — Data Link
Run 9: Statistics of WebRTC media

Start at: 2018-06-21 01:06:40
End at: 2018-06-21 01:07:10
Local clock offset: 0.106 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 51.159 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 51.217 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 1.66%
Run 9: Report of WebRTC media — Data Link

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

Start at: 2018-06-21 01:28:53
End at: 2018-06-21 01:29:23
Local clock offset: 0.088 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-21 03:40:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 51.109 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 51.139 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 50.967 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 51.141 ms
Loss rate: 1.63%
Run 10: Report of WebRTC media — Data Link

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

Flow 1 ingress (mean 2.00 Mbps)  
Flow 1 egress (mean 2.00 Mbps)  
Flow 2 ingress (mean 1.32 Mbps)  
Flow 2 egress (mean 1.32 Mbps)  
Flow 3 ingress (mean 0.56 Mbps)  
Flow 3 egress (mean 0.55 Mbps)

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

Flow 1 (95th percentile 51.14 ms)  
Flow 2 (95th percentile 50.97 ms)  
Flow 3 (95th percentile 51.14 ms)