Pantheon Report

Generated at 2018-05-26 09:03:55 (UTC).
Data path: GCE Sydney Ethernet (local) → GCE Tokyo Ethernet (remote).
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 @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494ea929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4a9d58d38dc4dfe0edcbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d8b623c091a55fec872b4981e1
  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 @ 77961f1a8273a86b42f1bcb8143ebc978f3ccf42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3b5db2
third_party/sprout @ c838669682f0c19f6baf92afcc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2bab86211435ae071a32f96b7d8c50487f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9d35770d143a1fa2851
test from GCE Sydney to GCE Tokyo, 10 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s)</th>
<th>mean 95th-%ile delay (ms)</th>
<th>mean loss rate (%)</th>
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<td>137.87</td>
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<td>TCP Cubic</td>
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<td>204.41</td>
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<td>LEDBAT</td>
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<td>PCC-Allegro</td>
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<tr>
<td>PCC-Expr</td>
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<td>296.67</td>
<td>152.72</td>
<td>85.13</td>
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<tr>
<td>QUIC Cubic</td>
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<td>46.56</td>
<td>56.43</td>
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<td>SCReAM</td>
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<td>0.21</td>
<td>0.22</td>
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<td>Sprout</td>
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<td>TaoVA-100x</td>
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<td>90.00</td>
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<td>TCP Vegas</td>
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<td>100.60</td>
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<tr>
<td>Verus</td>
<td>10</td>
<td>226.02</td>
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<td>141.52</td>
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<tr>
<td>PCC-Vivace</td>
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<td>351.53</td>
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<tr>
<td>WebRTC media</td>
<td>10</td>
<td>0.05</td>
<td>0.05</td>
<td>0.05</td>
</tr>
</tbody>
</table>
Run 1: Statistics of TCP BBR

Start at: 2018-05-26 02:40:50
End at: 2018-05-26 02:41:20
Local clock offset: -0.46 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 06:54:13
# Datalink statistics
-- Total of 3 fl ows:
Average throughput: 418.48 Mbit/s
95th percentile per-packet one-way delay: 60.189 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 212.73 Mbit/s
95th percentile per-packet one-way delay: 59.427 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 209.92 Mbit/s
95th percentile per-packet one-way delay: 60.335 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 198.28 Mbit/s
95th percentile per-packet one-way delay: 61.671 ms
Loss rate: 0.02%
Run 1: Report of TCP BBR — Data Link

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

Start at: 2018-05-26 03:03:41
End at: 2018-05-26 03:04:11
Local clock offset: -0.281 ms
Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 429.69 Mbit/s
  95th percentile per-packet one-way delay: 62.265 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 217.89 Mbit/s
  95th percentile per-packet one-way delay: 60.474 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 215.06 Mbit/s
  95th percentile per-packet one-way delay: 62.585 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 206.72 Mbit/s
  95th percentile per-packet one-way delay: 63.906 ms
  Loss rate: 0.00%
Run 2: Report of TCP BBR — Data Link

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 217.92 Mbps)
  - Flow 1 egress (mean 217.89 Mbps)
  - Flow 2 ingress (mean 215.10 Mbps)
  - Flow 2 egress (mean 215.06 Mbps)
  - Flow 3 ingress (mean 206.76 Mbps)
  - Flow 3 egress (mean 206.72 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 60.47 ms)
  - Flow 2 (95th percentile 62.59 ms)
  - Flow 3 (95th percentile 63.91 ms)
Run 3: Statistics of TCP BBR

Start at: 2018-05-26 03:27:02
End at: 2018-05-26 03:27:32
Local clock offset: -0.414 ms
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.45 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.08 Mbit/s
95th percentile per-packet one-way delay: 62.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.74 Mbit/s
95th percentile per-packet one-way delay: 62.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 209.88 Mbit/s
95th percentile per-packet one-way delay: 63.903 ms
Loss rate: 0.00%
Run 3: Report of TCP BBR — Data Link

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

**Throughput (Mbps) vs Time (s)**
- Flow 1 ingress (mean 206.06 Mbps)
- Flow 1 egress (mean 206.08 Mbps)
- Flow 2 ingress (mean 206.70 Mbps)
- Flow 2 egress (mean 206.74 Mbps)
- Flow 3 ingress (mean 210.05 Mbps)
- Flow 3 egress (mean 209.88 Mbps)

**Packet Loss (ms) vs Time (s)**
- Flow 1 (95th percentile 62.17 ms)
- Flow 2 (95th percentile 62.87 ms)
- Flow 3 (95th percentile 63.90 ms)
Run 4: Statistics of TCP BBR

Start at: 2018-05-26 03:50:22
End at: 2018-05-26 03:50:52
Local clock offset: -0.397 ms
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 418.70 Mbit/s
95th percentile per-packet one-way delay: 63.733 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 214.04 Mbit/s
95th percentile per-packet one-way delay: 62.601 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 204.89 Mbit/s
95th percentile per-packet one-way delay: 64.815 ms
Loss rate: 0.12%
Run 4: Report of TCP BBR — Data Link

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

- **Throughput** graph:
  - Flow 1 ingress (mean 214.08 Mbit/s)
  - Flow 1 egress (mean 214.04 Mbit/s)
  - Flow 2 ingress (mean 205.07 Mbit/s)
  - Flow 2 egress (mean 205.06 Mbit/s)
  - Flow 3 ingress (mean 206.14 Mbit/s)
  - Flow 3 egress (mean 204.89 Mbit/s)

- **Packet delay** graph:
  - Flow 1 (95th percentile 62.60 ms)
  - Flow 2 (95th percentile 63.85 ms)
  - Flow 3 (95th percentile 64.81 ms)
Run 5: Statistics of TCP BBR

Start at: 2018-05-26 04:13:07
End at: 2018-05-26 04:13:37
Local clock offset: -0.426 ms
Remote clock offset: -0.179 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.55 Mbit/s
95th percentile per-packet one-way delay: 58.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.15 Mbit/s
95th percentile per-packet one-way delay: 58.085 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 217.55 Mbit/s
95th percentile per-packet one-way delay: 59.126 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.70 Mbit/s
95th percentile per-packet one-way delay: 59.884 ms
Loss rate: 0.01%
Run 5: Report of TCP BBR — Data Link

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

For throughput:
- Flow 1 ingress (mean 214.13 Mbps)
- Flow 1 egress (mean 214.13 Mbps)
- Flow 2 ingress (mean 217.55 Mbps)
- Flow 2 egress (mean 217.55 Mbps)
- Flow 3 ingress (mean 202.79 Mbps)
- Flow 3 egress (mean 202.79 Mbps)

For per-packet one-way delay:
- Flow 1 (95th percentile 58.09 ms)
- Flow 2 (95th percentile 59.13 ms)
- Flow 3 (95th percentile 59.88 ms)
Run 6: Statistics of TCP BBR

Start at: 2018-05-26 04:35:50
End at: 2018-05-26 04:36:20
Local clock offset: 0.379 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.05 Mbit/s
95th percentile per-packet one-way delay: 64.367 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 210.46 Mbit/s
95th percentile per-packet one-way delay: 63.652 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 213.39 Mbit/s
95th percentile per-packet one-way delay: 64.349 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 202.97 Mbit/s
95th percentile per-packet one-way delay: 65.625 ms
Loss rate: 0.08%
Run 6: Report of TCP BBR — Data Link

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

- Flow 1 ingress (mean 210.52 Mbps)
- Flow 1 egress (mean 210.46 Mbps)
- Flow 2 ingress (mean 213.47 Mbps)
- Flow 2 egress (mean 213.39 Mbps)
- Flow 3 ingress (mean 203.22 Mbps)
- Flow 3 egress (mean 202.97 Mbps)

![Graph of Per packet one way delay (ms) vs Time (s)]

- Flow 1 (95th percentile 63.65 ms)
- Flow 2 (95th percentile 64.35 ms)
- Flow 3 (95th percentile 65.62 ms)
Run 7: Statistics of TCP BBR

Start at: 2018-05-26 04:58:50
End at: 2018-05-26 04:59:20
Local clock offset: 0.598 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.17 Mbit/s
95th percentile per-packet one-way delay: 62.414 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 219.23 Mbit/s
95th percentile per-packet one-way delay: 59.877 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 210.66 Mbit/s
95th percentile per-packet one-way delay: 62.626 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 200.61 Mbit/s
95th percentile per-packet one-way delay: 64.006 ms
Loss rate: 0.14%
Run 7: Report of TCP BBR — Data Link

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

- **Flow 1 ingress (mean 219.31 Mbit/s)**
- **Flow 1 egress (mean 219.23 Mbit/s)**
- **Flow 2 ingress (mean 210.81 Mbit/s)**
- **Flow 2 egress (mean 210.66 Mbit/s)**
- **Flow 3 ingress (mean 200.90 Mbit/s)**
- **Flow 3 egress (mean 200.61 Mbit/s)**

- **Flow 1 (95th percentile 59.88 ms)**
- **Flow 2 (95th percentile 62.63 ms)**
- **Flow 3 (95th percentile 64.01 ms)**
Run 8: Statistics of TCP BBR

Start at: 2018-05-26 05:21:56
End at: 2018-05-26 05:22:26
Local clock offset: 0.308 ms
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2018-05-26 06:54:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.87 Mbit/s
95th percentile per-packet one-way delay: 63.499 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 214.76 Mbit/s
95th percentile per-packet one-way delay: 61.896 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 208.99 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 198.54 Mbit/s
95th percentile per-packet one-way delay: 64.591 ms
Loss rate: 0.00%
Run 8: Report of TCP BBR — Data Link

![Graph of data link throughput](image1)

- **Flow 1 ingress (mean 214.78 Mbit/s)**
- **Flow 1 egress (mean 214.76 Mbit/s)**
- **Flow 2 ingress (mean 209.00 Mbit/s)**
- **Flow 2 egress (mean 208.99 Mbit/s)**
- **Flow 3 ingress (mean 196.61 Mbit/s)**
- **Flow 3 egress (mean 196.54 Mbit/s)**

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

- **Flow 1 (95th percentile 61.90 ms)**
- **Flow 2 (95th percentile 63.72 ms)**
- **Flow 3 (95th percentile 64.59 ms)**
Run 9: Statistics of TCP BBR

Start at: 2018-05-26 05:44:53
End at: 2018-05-26 05:45:23
Local clock offset: -0.447 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-05-26 07:00:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 414.40 Mbit/s
95th percentile per-packet one-way delay: 65.387 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 212.95 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 208.04 Mbit/s
95th percentile per-packet one-way delay: 64.990 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 189.32 Mbit/s
95th percentile per-packet one-way delay: 67.985 ms
Loss rate: 0.03%
Run 9: Report of TCP BBR — Data Link
Run 10: Statistics of TCP BBR

Start at: 2018-05-26 06:07:37
End at: 2018-05-26 06:08:07
Local clock offset: -0.116 ms
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2018-05-26 07:01:11
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 422.48 Mbit/s
  95th percentile per-packet one-way delay: 60.533 ms
  Loss rate: 0.03%
  -- Flow 1:
  Average throughput: 214.69 Mbit/s
  95th percentile per-packet one-way delay: 59.543 ms
  Loss rate: 0.02%
  -- Flow 2:
  Average throughput: 208.20 Mbit/s
  95th percentile per-packet one-way delay: 60.654 ms
  Loss rate: 0.03%
  -- Flow 3:
  Average throughput: 208.04 Mbit/s
  95th percentile per-packet one-way delay: 62.589 ms
  Loss rate: 0.06%
Run 10: Report of TCP BBR — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 214.75 Mbps)
- Flow 1 egress (mean 214.69 Mbps)
- Flow 2 ingress (mean 208.26 Mbps)
- Flow 2 egress (mean 208.20 Mbps)
- Flow 3 ingress (mean 208.17 Mbps)
- Flow 3 egress (mean 208.04 Mbps)

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

- Flow 1 (95th percentile 59.54 ms)
- Flow 2 (95th percentile 60.65 ms)
- Flow 3 (95th percentile 62.59 ms)
Run 1: Statistics of Copa

Start at: 2018-05-26 03:02:19  
End at: 2018-05-26 03:02:49  
Local clock offset: -0.299 ms  
Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2018-05-26 07:01:11
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 163.23 Mbit/s  
  95th percentile per-packet one-way delay: 53.761 ms 
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 65.10 Mbit/s  
  95th percentile per-packet one-way delay: 53.446 ms 
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 120.60 Mbit/s  
  95th percentile per-packet one-way delay: 53.754 ms 
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 53.61 Mbit/s  
  95th percentile per-packet one-way delay: 67.453 ms 
  Loss rate: 0.00%
Run 1: Report of Copa — Data Link
Run 2: Statistics of Copa

Start at: 2018-05-26 03:25:27
End at: 2018-05-26 03:25:57
Local clock offset: -0.331 ms
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-05-26 07:03:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.49 Mbit/s
95th percentile per-packet one-way delay: 61.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.83 Mbit/s
95th percentile per-packet one-way delay: 62.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 59.797 ms
Loss rate: 0.00%
Run 3: Statistics of Copa

Start at: 2018-05-26 03:49:05
End at: 2018-05-26 03:49:35
Local clock offset: -0.555 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-05-26 07:03:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.66 Mbit/s
95th percentile per-packet one-way delay: 53.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 53.502 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.07 Mbit/s
95th percentile per-packet one-way delay: 53.894 ms
Loss rate: 0.00%
Run 3: Report of Copa — Data Link

[Graph showing throughput and packet delay over time for different flows.]
Run 4: Statistics of Copa

Start at: 2018-05-26 04:11:37
End at: 2018-05-26 04:12:07
Local clock offset: 0.116 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-05-26 07:03:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.08 Mbit/s
95th percentile per-packet one-way delay: 56.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 129.15 Mbit/s
95th percentile per-packet one-way delay: 56.708 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.80 Mbit/s
95th percentile per-packet one-way delay: 55.027 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 105.21 Mbit/s
95th percentile per-packet one-way delay: 56.922 ms
Loss rate: 0.00%
Run 4: Report of Copa — Data Link
Run 5: Statistics of Copa

Start at: 2018-05-26 04:34:27
End at: 2018-05-26 04:34:57
Local clock offset: 0.144 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-05-26 07:03:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 181.24 Mbit/s
95th percentile per-packet one-way delay: 58.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 56.413 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 81.89 Mbit/s
95th percentile per-packet one-way delay: 56.165 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.41 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.00%
Run 5: Report of Copa — Data Link
Run 6: Statistics of Copa

Start at: 2018-05-26 04:57:24
End at: 2018-05-26 04:57:54
Local clock offset: 0.205 ms
Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-05-26 07:03:37
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 204.51 Mbit/s
  95th percentile per-packet one-way delay: 55.273 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 132.86 Mbit/s
  95th percentile per-packet one-way delay: 55.374 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 66.56 Mbit/s
  95th percentile per-packet one-way delay: 55.341 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 82.54 Mbit/s
  95th percentile per-packet one-way delay: 54.753 ms
  Loss rate: 0.01%
Run 7: Statistics of Copa

Start at: 2018-05-26 05:20:30
End at: 2018-05-26 05:21:00
Local clock offset: -0.179 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-05-26 07:04:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 207.59 Mbit/s
95th percentile per-packet one-way delay: 58.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.01 Mbit/s
95th percentile per-packet one-way delay: 53.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 55.697 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 211.51 Mbit/s
95th percentile per-packet one-way delay: 69.352 ms
Loss rate: 0.00%
Run 8: Statistics of Copa

Start at: 2018-05-26 05:43:30
End at: 2018-05-26 05:44:00
Local clock offset: -0.022 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-05-26 07:04:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 179.73 Mbit/s
95th percentile per-packet one-way delay: 55.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.46 Mbit/s
95th percentile per-packet one-way delay: 55.915 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 59.38 Mbit/s
95th percentile per-packet one-way delay: 53.472 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.52 Mbit/s
95th percentile per-packet one-way delay: 57.514 ms
Loss rate: 0.00%
Run 8: Report of Copa — Data Link
Run 9: Statistics of Copa

Start at: 2018-05-26 06:06:00
End at: 2018-05-26 06:06:30
Local clock offset: -0.221 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 332.66 Mbit/s
95th percentile per-packet one-way delay: 55.876 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.53 Mbit/s
95th percentile per-packet one-way delay: 55.873 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.97 Mbit/s
95th percentile per-packet one-way delay: 56.824 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 54.131 ms
Loss rate: 0.00%
Run 9: Report of Copa — Data Link

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

- **Throughput:**
  - Flow 1 ingress (mean 203.53 Mbit/s)
  - Flow 1 egress (mean 203.53 Mbit/s)
  - Flow 2 ingress (mean 145.99 Mbit/s)
  - Flow 2 egress (mean 145.97 Mbit/s)
  - Flow 3 ingress (mean 96.32 Mbit/s)
  - Flow 3 egress (mean 96.33 Mbit/s)

- **Packet Loss:**
  - Flow 1 (95th percentile 55.87 ms)
  - Flow 2 (95th percentile 56.82 ms)
  - Flow 3 (95th percentile 54.13 ms)
Run 10: Statistics of Copa

Start at: 2018-05-26 06:29:23
End at: 2018-05-26 06:29:54
Local clock offset: 0.217 ms
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 306.02 Mbit/s
95th percentile per-packet one-way delay: 57.140 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 233.45 Mbit/s
95th percentile per-packet one-way delay: 56.957 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 55.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 61.258 ms
Loss rate: 0.00%
Run 10: Report of Copa — Data Link
Run 1: Statistics of TCP Cubic

Start at: 2018-05-26 02:53:20
End at: 2018-05-26 02:53:50
Local clock offset: -0.328 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.68 Mbit/s
95th percentile per-packet one-way delay: 56.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.26 Mbit/s
95th percentile per-packet one-way delay: 55.933 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.70 Mbit/s
95th percentile per-packet one-way delay: 56.457 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 191.10 Mbit/s
95th percentile per-packet one-way delay: 57.197 ms
Loss rate: 0.00%
Run 1: Report of TCP Cubic — Data Link
Run 2: Statistics of TCP Cubic

Start at: 2018-05-26 03:16:14
End at: 2018-05-26 03:16:44
Local clock offset: -0.142 ms
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 305.56 Mbit/s
95th percentile per-packet one-way delay: 59.433 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 155.70 Mbit/s
95th percentile per-packet one-way delay: 56.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 60.144 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 54.172 ms
Loss rate: 0.14%
Run 2: Report of TCP Cubic — Data Link
Run 3: Statistics of TCP Cubic

Start at: 2018-05-26 03:39:34
End at: 2018-05-26 03:40:04
Local clock offset: -0.349 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 361.62 Mbit/s
95th percentile per-packet one-way delay: 60.817 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 217.73 Mbit/s
95th percentile per-packet one-way delay: 60.482 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 110.45 Mbit/s
95th percentile per-packet one-way delay: 58.933 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 211.86 Mbit/s
95th percentile per-packet one-way delay: 62.680 ms
Loss rate: 0.15%
Run 3: Report of TCP Cubic — Data Link

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

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 217.84 Mbps)
  - Flow 1 egress (mean 217.73 Mbps)
  - Flow 2 ingress (mean 110.45 Mbps)
  - Flow 2 egress (mean 110.45 Mbps)
  - Flow 3 ingress (mean 212.10 Mbps)
  - Flow 3 egress (mean 211.86 Mbps)

- **Per-Packet One-Way Delay (ms)**
  - Flow 1 (95th percentile 60.48 ms)
  - Flow 2 (95th percentile 58.93 ms)
  - Flow 3 (95th percentile 62.68 ms)
Run 4: Statistics of TCP Cubic

Start at: 2018-05-26 04:02:42
End at: 2018-05-26 04:03:12
Local clock offset: -0.366 ms
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 311.70 Mbit/s
95th percentile per-packet one-way delay: 59.533 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 227.00 Mbit/s
95th percentile per-packet one-way delay: 59.801 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 125.14 Mbit/s
95th percentile per-packet one-way delay: 56.449 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 53.160 ms
Loss rate: 0.26%
Run 4: Report of TCP Cubic — Data Link

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

- Throughput (Mbps): Flow 1 ingress (mean 226.99 Mbps), Flow 2 ingress (mean 125.13 Mbps), Flow 3 ingress (mean 4.57 Mbps), Flow 1 egress (mean 227.00 Mbps), Flow 2 egress (mean 125.14 Mbps), Flow 3 egress (mean 4.56 Mbps).

- Per-packet one-way delay (ms): Flow 1 (95th percentile 59.80 ms), Flow 2 (95th percentile 56.45 ms), Flow 3 (95th percentile 53.16 ms).
Run 5: Statistics of TCP Cubic

Start at: 2018-05-26 04:25:34
End at: 2018-05-26 04:26:04
Local clock offset: 0.024 ms
Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-05-26 07:10:17
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 57.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.65 Mbit/s
95th percentile per-packet one-way delay: 55.966 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.08 Mbit/s
95th percentile per-packet one-way delay: 57.265 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 111.39 Mbit/s
95th percentile per-packet one-way delay: 59.532 ms
Loss rate: 0.00%
Run 6: Statistics of TCP Cubic

Start at: 2018-05-26 04:48:17
End at: 2018-05-26 04:48:47
Local clock offset: 0.098 ms
Remote clock offset: 0.252 ms

# Below is generated by plot.py at 2018-05-26 07:11:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.54 Mbit/s
95th percentile per-packet one-way delay: 62.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.57 Mbit/s
95th percentile per-packet one-way delay: 62.669 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 221.80 Mbit/s
95th percentile per-packet one-way delay: 60.152 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 55.268 ms
Loss rate: 0.19%
Run 6: Report of TCP Cubic — Data Link
Run 7: Statistics of TCP Cubic

Start at: 2018-05-26 05:11:28
End at: 2018-05-26 05:11:58
Local clock offset: 0.375 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2018-05-26 07:11:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 59.581 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 173.35 Mbit/s
95th percentile per-packet one-way delay: 59.303 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.16 Mbit/s
95th percentile per-packet one-way delay: 59.847 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 172.97 Mbit/s
95th percentile per-packet one-way delay: 59.890 ms
Loss rate: 0.09%
Run 7: Report of TCP Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 173.38 Mbit/s)
- Flow 1 egress (mean 173.35 Mbit/s)
- Flow 2 ingress (mean 56.18 Mbit/s)
- Flow 2 egress (mean 56.16 Mbit/s)
- Flow 3 ingress (mean 173.12 Mbit/s)
- Flow 3 egress (mean 172.97 Mbit/s)

Legend for per-packet one-way delay:
- Flow 1 (95th percentile 59.30 ms)
- Flow 2 (95th percentile 59.85 ms)
- Flow 3 (95th percentile 59.89 ms)
Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 05:34:24
End at: 2018-05-26 05:34:54
Local clock offset: 0.407 ms
Remote clock offset: 0.28 ms

# Below is generated by plot.py at 2018-05-26 07:12:58
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 370.70 Mbit/s
  95th percentile per-packet one-way delay: 62.394 ms
  Loss rate: 0.00%
  -- Flow 1:
  Average throughput: 192.13 Mbit/s
  95th percentile per-packet one-way delay: 60.021 ms
  Loss rate: 0.00%
  -- Flow 2:
  Average throughput: 213.04 Mbit/s
  95th percentile per-packet one-way delay: 64.096 ms
  Loss rate: 0.00%
  -- Flow 3:
  Average throughput: 110.17 Mbit/s
  95th percentile per-packet one-way delay: 57.281 ms
  Loss rate: 0.00%
Run 8: Report of TCP Cubic — Data Link

![Throughput Graph]

- Flow 1 ingress (mean 192.13 Mbit/s)
- Flow 1 egress (mean 192.13 Mbit/s)
- Flow 2 ingress (mean 213.06 Mbit/s)
- Flow 2 egress (mean 213.04 Mbit/s)
- Flow 3 ingress (mean 110.16 Mbit/s)
- Flow 3 egress (mean 110.17 Mbit/s)

![Delay Graph]

- Flow 1 (95th percentile 60.02 ms)
- Flow 2 (95th percentile 64.10 ms)
- Flow 3 (95th percentile 57.28 ms)

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Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 05:57:11
End at: 2018-05-26 05:57:41
Local clock offset: 0.417 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-26 07:13:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.32 Mbit/s
95th percentile per-packet one-way delay: 60.245 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 201.57 Mbit/s
95th percentile per-packet one-way delay: 60.398 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 120.35 Mbit/s
95th percentile per-packet one-way delay: 59.876 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 182.40 Mbit/s
95th percentile per-packet one-way delay: 60.104 ms
Loss rate: 0.00%
Run 9: Report of TCP Cubic — Data Link
Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 06:20:05
End at: 2018-05-26 06:20:35
Local clock offset: -0.248 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 07:14:01
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 305.33 Mbit/s
  95th percentile per-packet one-way delay: 60.453 ms
  Loss rate: 0.04%
-- Flow 1:
  Average throughput: 161.62 Mbit/s
  95th percentile per-packet one-way delay: 60.235 ms
  Loss rate: 0.03%
-- Flow 2:
  Average throughput: 110.75 Mbit/s
  95th percentile per-packet one-way delay: 57.310 ms
  Loss rate: 0.09%
-- Flow 3:
  Average throughput: 210.82 Mbit/s
  95th percentile per-packet one-way delay: 61.589 ms
  Loss rate: 0.00%
Run 10: Report of TCP Cubic — Data Link
Run 1: Statistics of FillP

Start at: 2018-05-26 02:43:27
End at: 2018-05-26 02:43:57
Local clock offset: -0.388 ms
Remote clock offset: 0.326 ms

# Below is generated by plot.py at 2018-05-26 07:35:50
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1320.21 Mbit/s
  95th percentile per-packet one-way delay: 117.754 ms
  Loss rate: 0.70%
-- Flow 1:
  Average throughput: 711.14 Mbit/s
  95th percentile per-packet one-way delay: 128.443 ms
  Loss rate: 1.29%
-- Flow 2:
  Average throughput: 616.92 Mbit/s
  95th percentile per-packet one-way delay: 62.977 ms
  Loss rate: 0.01%
-- Flow 3:
  Average throughput: 595.50 Mbit/s
  95th percentile per-packet one-way delay: 56.893 ms
  Loss rate: 0.02%
Run 1: Report of FillP — Data Link

![Graph 1]

- **Flow 1 Ingress** (mean 720.41 Mbit/s)
- **Flow 1 Egress** (mean 711.14 Mbit/s)
- **Flow 2 Ingress** (mean 616.87 Mbit/s)
- **Flow 2 Egress** (mean 616.92 Mbit/s)
- **Flow 3 Ingress** (mean 595.87 Mbit/s)
- **Flow 3 Egress** (mean 595.50 Mbit/s)

![Graph 2]

- Flow 1 (95th percentile 128.44 ms)
- Flow 2 (95th percentile 62.98 ms)
- Flow 3 (95th percentile 56.89 ms)
Run 2: Statistics of FillP

Start at: 2018-05-26 03:06:18
End at: 2018-05-26 03:06:48
Local clock offset: -0.242 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-05-26 07:37:32
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1369.58 Mbit/s
  95th percentile per-packet one-way delay: 114.798 ms
  Loss rate: 0.85%
-- Flow 1:
  Average throughput: 731.69 Mbit/s
  95th percentile per-packet one-way delay: 118.927 ms
  Loss rate: 1.36%
-- Flow 2:
  Average throughput: 651.97 Mbit/s
  95th percentile per-packet one-way delay: 86.001 ms
  Loss rate: 0.38%
-- Flow 3:
  Average throughput: 613.57 Mbit/s
  95th percentile per-packet one-way delay: 63.797 ms
  Loss rate: 0.05%
Run 2: Report of FillP — Data Link
Run 3: Statistics of FillP

Start at: 2018-05-26 03:29:38
End at: 2018-05-26 03:30:08
Local clock offset: -0.361 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-05-26 07:39:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1438.42 Mbit/s
95th percentile per-packet one-way delay: 101.304 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 810.26 Mbit/s
95th percentile per-packet one-way delay: 110.359 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 693.58 Mbit/s
95th percentile per-packet one-way delay: 73.271 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 504.67 Mbit/s
95th percentile per-packet one-way delay: 55.057 ms
Loss rate: 0.05%
Run 3: Report of FillP — Data Link

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

- **Throughput** (Mbps):
  - **Flow 1 Ingress** (mean 811.17 Mbps)
  - **Flow 1 Egress** (mean 810.26 Mbps)
  - **Flow 2 Ingress** (mean 693.64 Mbps)
  - **Flow 2 Egress** (mean 693.58 Mbps)
  - **Flow 3 Ingress** (mean 504.73 Mbps)
  - **Flow 3 Egress** (mean 504.67 Mbps)

- **Per-packet one-way delay (ms):**
  - **Flow 1** (95th percentile 110.36 ms)
  - **Flow 2** (95th percentile 73.27 ms)
  - **Flow 3** (95th percentile 55.06 ms)
Run 4: Statistics of FillP

Start at: 2018-05-26 03:53:01
End at: 2018-05-26 03:53:31
Local clock offset: -0.41 ms
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2018-05-26 07:39:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1153.30 Mbit/s
95th percentile per-packet one-way delay: 105.899 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 684.31 Mbit/s
95th percentile per-packet one-way delay: 111.476 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 496.39 Mbit/s
95th percentile per-packet one-way delay: 96.901 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 418.18 Mbit/s
95th percentile per-packet one-way delay: 65.640 ms
Loss rate: 0.01%
Run 4: Report of FillP — Data Link

![Throughput Graph](image)

![Delay Graph](image)

- Flow 1 ingress (mean 685.74 Mbit/s)  |  Flow 1 egress (mean 684.31 Mbit/s)
- Flow 2 ingress (mean 501.50 Mbit/s)  |  Flow 2 egress (mean 496.39 Mbit/s)
- Flow 3 ingress (mean 418.39 Mbit/s)  |  Flow 3 egress (mean 418.18 Mbit/s)

- Flow 1 (95th percentile 111.48 ms)  |  Flow 2 (95th percentile 96.90 ms)  |  Flow 3 (95th percentile 65.64 ms)
Run 5: Statistics of FillP

Start at: 2018-05-26 04:15:44
End at: 2018-05-26 04:16:14
Local clock offset: 0.05 ms
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 07:39:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1339.75 Mbit/s
95th percentile per-packet one-way delay: 74.520 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 711.60 Mbit/s
95th percentile per-packet one-way delay: 78.618 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 667.44 Mbit/s
95th percentile per-packet one-way delay: 63.144 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 555.71 Mbit/s
95th percentile per-packet one-way delay: 55.514 ms
Loss rate: 0.02%
Run 5: Report of FillP — Data Link

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

Legend:
- Flow 1 Ingress (mean 714.30 Mb/s)
- Flow 1 Egress (mean 711.80 Mb/s)
- Flow 2 Ingress (mean 667.64 Mb/s)
- Flow 2 Egress (mean 667.44 Mb/s)
- Flow 3 Ingress (mean 555.76 Mb/s)
- Flow 3 Egress (mean 555.73 Mb/s)

Legend for delay:
- Flow 1 (95th percentile 78.62 ms)
- Flow 2 (95th percentile 63.14 ms)
- Flow 3 (95th percentile 55.51 ms)
Run 6: Statistics of FillP

Start at: 2018-05-26 04:38:28
End at: 2018-05-26 04:38:58
Local clock offset: 0.339 ms
Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-05-26 07:40:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1319.82 Mbit/s
95th percentile per-packet one-way delay: 108.393 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 718.78 Mbit/s
95th percentile per-packet one-way delay: 114.534 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 615.05 Mbit/s
95th percentile per-packet one-way delay: 61.405 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 578.98 Mbit/s
95th percentile per-packet one-way delay: 99.727 ms
Loss rate: 0.71%
Run 6: Report of FillP — Data Link
Run 7: Statistics of FillP

Start at: 2018-05-26 05:01:28
End at: 2018-05-26 05:01:58
Local clock offset: 0.113 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 07:43:22
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1403.41 Mbit/s
  95th percentile per-packet one-way delay: 123.744 ms
  Loss rate: 0.96%
-- Flow 1:
  Average throughput: 758.63 Mbit/s
  95th percentile per-packet one-way delay: 118.556 ms
  Loss rate: 1.02%
-- Flow 2:
  Average throughput: 673.70 Mbit/s
  95th percentile per-packet one-way delay: 133.110 ms
  Loss rate: 1.27%
-- Flow 3:
  Average throughput: 592.69 Mbit/s
  95th percentile per-packet one-way delay: 89.263 ms
  Loss rate: 0.03%
Run 7: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 786.34 Mbit/s)
- Flow 1 Egress (mean 758.63 Mbit/s)
- Flow 2 Ingress (mean 682.21 Mbit/s)
- Flow 2 Egress (mean 673.70 Mbit/s)
- Flow 3 Ingress (mean 592.94 Mbit/s)
- Flow 3 Egress (mean 592.69 Mbit/s)

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

- Flow 1 (95th percentile 118.56 ms)
- Flow 2 (95th percentile 133.11 ms)
- Flow 3 (95th percentile 89.26 ms)
Run 8: Statistics of FillP

Start at: 2018-05-26 05:24:33
End at: 2018-05-26 05:25:03
Local clock offset: -0.11 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-05-26 07:43:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1348.97 Mbit/s
95th percentile per-packet one-way delay: 187.054 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 719.93 Mbit/s
95th percentile per-packet one-way delay: 201.132 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 669.19 Mbit/s
95th percentile per-packet one-way delay: 135.424 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 556.87 Mbit/s
95th percentile per-packet one-way delay: 63.338 ms
Loss rate: 0.01%
Run 8: Report of FillP — Data Link

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

- Flow 1 Ingress (mean 722.76 Mbits/s) and Egress (mean 719.93 Mbits/s)
- Flow 2 Ingress (mean 670.72 Mbits/s) and Egress (mean 669.19 Mbits/s)
- Flow 3 Ingress (mean 556.91 Mbits/s) and Egress (mean 556.87 Mbits/s)

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

- Flow 1 (95th percentile 201.13 ms)
- Flow 2 (95th percentile 135.42 ms)
- Flow 3 (95th percentile 63.34 ms)
Run 9: Statistics of FillP

Start at: 2018-05-26 05:47:29
End at: 2018-05-26 05:47:59
Local clock offset: 0.04 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-26 08:04:16
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 1354.21 Mbit/s
  95th percentile per-packet one-way delay: 144.580 ms
  Loss rate: 0.65%
-- Flow 1:
  Average throughput: 713.99 Mbit/s
  95th percentile per-packet one-way delay: 218.350 ms
  Loss rate: 0.77%
-- Flow 2:
  Average throughput: 692.07 Mbit/s
  95th percentile per-packet one-way delay: 81.336 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 543.73 Mbit/s
  95th percentile per-packet one-way delay: 114.969 ms
  Loss rate: 1.79%
Run 9: Report of FillP — Data Link

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

- **Throughput Chart**
  -  Flow 1 Ingress (mean 719.45 Mbps)
  -  Flow 1 Egress (mean 713.99 Mbps)
  -  Flow 2 Ingress (mean 691.83 Mbps)
  -  Flow 2 Egress (mean 692.07 Mbps)
  -  Flow 3 Ingress (mean 553.60 Mbps)
  -  Flow 3 Egress (mean 543.73 Mbps)

- **Delay Chart**
  -  Flow 1 (95th percentile 218.35 ms)
  -  Flow 2 (95th percentile 81.34 ms)
  -  Flow 3 (95th percentile 114.97 ms)
Run 10: Statistics of FillP

Start at: 2018-05-26 06:10:14
End at: 2018-05-26 06:10:44
Local clock offset: -0.15 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1303.16 Mbit/s
95th percentile per-packet one-way delay: 158.453 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 698.76 Mbit/s
95th percentile per-packet one-way delay: 154.459 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 639.90 Mbit/s
95th percentile per-packet one-way delay: 67.142 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 540.12 Mbit/s
95th percentile per-packet one-way delay: 169.070 ms
Loss rate: 0.30%
Run 10: Report of FillIP — Data Link

![Graph of throughput over time for different flows]

- Flow 1 ingress (mean 709.07 Mbit/s)
- Flow 1 egress (mean 698.76 Mbit/s)
- Flow 2 ingress (mean 639.93 Mbit/s)
- Flow 2 egress (mean 639.90 Mbit/s)
- Flow 3 ingress (mean 541.72 Mbit/s)
- Flow 3 egress (mean 540.12 Mbit/s)

![Graph of latency over time for different flows]

- Flow 1 (95th percentile 154.46 ms)
- Flow 2 (95th percentile 67.14 ms)
- Flow 3 (95th percentile 169.07 ms)
Run 1: Statistics of Indigo

Start at: 2018-05-26 02:45:28
End at: 2018-05-26 02:45:58
Local clock offset: -0.372 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.42 Mbit/s
95th percentile per-packet one-way delay: 57.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.68 Mbit/s
95th percentile per-packet one-way delay: 56.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.15 Mbit/s
95th percentile per-packet one-way delay: 57.152 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 195.78 Mbit/s
95th percentile per-packet one-way delay: 59.804 ms
Loss rate: 0.00%
Run 1: Report of Indigo — Data Link

---

**Throughput (Mbps)**

<table>
<thead>
<tr>
<th>Flow</th>
<th>Ingress (mean Mbps)</th>
<th>Egress (mean Mbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 1</td>
<td>157.67</td>
<td>157.68</td>
</tr>
<tr>
<td>Flow 2</td>
<td>200.17</td>
<td>200.15</td>
</tr>
<tr>
<td>Flow 3</td>
<td>195.83</td>
<td>195.78</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Flow</th>
<th>95th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 1</td>
<td>56.61 ms</td>
</tr>
<tr>
<td>Flow 2</td>
<td>57.15 ms</td>
</tr>
<tr>
<td>Flow 3</td>
<td>59.80 ms</td>
</tr>
</tbody>
</table>
Run 2: Statistics of Indigo

Start at: 2018-05-26 03:08:20
End at: 2018-05-26 03:08:50
Local clock offset: -0.023 ms
Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 405.32 Mbit/s
  95th percentile per-packet one-way delay: 56.983 ms
  Loss rate: 0.03%
-- Flow 1:
  Average throughput: 226.96 Mbit/s
  95th percentile per-packet one-way delay: 55.125 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 186.91 Mbit/s
  95th percentile per-packet one-way delay: 57.918 ms
  Loss rate: 0.04%
-- Flow 3:
  Average throughput: 166.24 Mbit/s
  95th percentile per-packet one-way delay: 61.834 ms
  Loss rate: 0.11%
Run 2: Report of Indigo — Data Link

![Graph showing throughput and delay over time for different flows.](image-url)
Run 3: Statistics of Indigo

Start at: 2018-05-26 03:31:44
End at: 2018-05-26 03:32:14
Local clock offset: -0.829 ms
Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.26 Mbit/s
95th percentile per-packet one-way delay: 54.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.31 Mbit/s
95th percentile per-packet one-way delay: 54.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 199.45 Mbit/s
95th percentile per-packet one-way delay: 54.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 173.70 Mbit/s
95th percentile per-packet one-way delay: 54.696 ms
Loss rate: 0.00%
Run 3: Report of Indigo — Data Link

![Graph 1: Throughput (Mbps)](image1)
- Blue dashed line: Flow 1 ingress (mean 174.31 Mbps)
- Blue solid line: Flow 1 egress (mean 174.31 Mbps)
- Green dashed line: Flow 2 ingress (mean 199.44 Mbps)
- Green solid line: Flow 2 egress (mean 199.45 Mbps)
- Red dashed line: Flow 3 ingress (mean 173.63 Mbps)
- Red solid line: Flow 3 egress (mean 173.70 Mbps)

![Graph 2: Per-packet one-way delay (ms)](image2)
- Blue dots: Flow 1 (95th percentile 54.79 ms)
- Green dots: Flow 2 (95th percentile 54.94 ms)
- Red dots: Flow 3 (95th percentile 54.70 ms)
Run 4: Statistics of Indigo

Start at: 2018-05-26 03:54:56
End at: 2018-05-26 03:55:26
Local clock offset: -0.682 ms
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 402.37 Mbit/s
95th percentile per-packet one-way delay: 55.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.26 Mbit/s
95th percentile per-packet one-way delay: 55.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 203.32 Mbit/s
95th percentile per-packet one-way delay: 56.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.31 Mbit/s
95th percentile per-packet one-way delay: 56.962 ms
Loss rate: 0.01%
Run 4: Report of Indigo — Data Link
Run 5: Statistics of Indigo

Start at: 2018-05-26 04:17:47
End at: 2018-05-26 04:18:17
Local clock offset: -0.222 ms
Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 424.78 Mbit/s
95th percentile per-packet one-way delay: 55.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.36 Mbit/s
95th percentile per-packet one-way delay: 55.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 226.07 Mbit/s
95th percentile per-packet one-way delay: 55.523 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 170.39 Mbit/s
95th percentile per-packet one-way delay: 55.951 ms
Loss rate: 0.00%
Run 5: Report of Indigo — Data Link

[Graph showing throughput and delay over time for different flows.]
Run 6: Statistics of Indigo

Start at: 2018-05-26 04:40:29
End at: 2018-05-26 04:40:59
Local clock offset: 0.206 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 389.90 Mbit/s
95th percentile per-packet one-way delay: 54.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.61 Mbit/s
95th percentile per-packet one-way delay: 54.722 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 181.30 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 172.02 Mbit/s
95th percentile per-packet one-way delay: 55.334 ms
Loss rate: 0.01%
Run 6: Report of Indigo — Data Link
Run 7: Statistics of Indigo

Start at: 2018-05-26 05:03:35
End at: 2018-05-26 05:04:05
Local clock offset: -0.194 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 408.21 Mbit/s
  95th percentile per-packet one-way delay: 54.544 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 230.86 Mbit/s
  95th percentile per-packet one-way delay: 54.444 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 177.76 Mbit/s
  95th percentile per-packet one-way delay: 54.781 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 181.78 Mbit/s
  95th percentile per-packet one-way delay: 54.252 ms
  Loss rate: 0.00%
Run 7: Report of Indigo — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress (mean 230.84 Mbps)**
- **Flow 1 egress (mean 230.86 Mbps)**
- **Flow 2 ingress (mean 177.76 Mbps)**
- **Flow 2 egress (mean 177.76 Mbps)**
- **Flow 3 ingress (mean 181.71 Mbps)**
- **Flow 3 egress (mean 181.78 Mbps)**

---

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

- **Flow 1 (95th percentile 54.44 ms)**
- **Flow 2 (95th percentile 54.78 ms)**
- **Flow 3 (95th percentile 54.25 ms)**

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Run 8: Statistics of Indigo

Start at: 2018-05-26 05:26:35
End at: 2018-05-26 05:27:05
Local clock offset: -0.17 ms
Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 433.25 Mbit/s
95th percentile per-packet one-way delay: 55.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.59 Mbit/s
95th percentile per-packet one-way delay: 54.631 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 224.51 Mbit/s
95th percentile per-packet one-way delay: 55.136 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 158.86 Mbit/s
95th percentile per-packet one-way delay: 55.784 ms
Loss rate: 0.00%
Run 8: Report of Indigo — Data Link

![Graphs showing throughput and packet delay over time for different flows.]
Run 9: Statistics of Indigo

Start at: 2018-05-26 05:49:31
End at: 2018-05-26 05:50:01
Local clock offset: -0.282 ms
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.05 Mbit/s
95th percentile per-packet one-way delay: 55.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.83 Mbit/s
95th percentile per-packet one-way delay: 55.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 218.82 Mbit/s
95th percentile per-packet one-way delay: 56.028 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 200.47 Mbit/s
95th percentile per-packet one-way delay: 56.915 ms
Loss rate: 0.00%
Run 9: Report of Indigo — Data Link

![Graph of Throughput and Per-Packet End-to-End Delay](image-url)
Run 10: Statistics of Indigo

Start at: 2018-05-26 06:12:15
End at: 2018-05-26 06:12:45
Local clock offset: -0.467 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 395.64 Mbit/s
95th percentile per-packet one-way delay: 52.992 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 191.81 Mbit/s
95th percentile per-packet one-way delay: 52.671 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 225.80 Mbit/s
95th percentile per-packet one-way delay: 52.956 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 165.83 Mbit/s
95th percentile per-packet one-way delay: 53.586 ms
Loss rate: 0.01%
Run 10: Report of Indigo — Data Link

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

- Flow 1 ingress (mean 191.81 Mbps) vs Flow 1 egress (mean 191.81 Mbps)
- Flow 2 ingress (mean 225.78 Mbps) vs Flow 2 egress (mean 225.88 Mbps)
- Flow 3 ingress (mean 165.83 Mbps) vs Flow 3 egress (mean 165.83 Mbps)

- Flow 1 (95th percentile 52.67 ms)
- Flow 2 (95th percentile 52.96 ms)
- Flow 3 (95th percentile 53.59 ms)
Run 1: Statistics of LEDBAT

Start at: 2018-05-26 02:48:46
End at: 2018-05-26 02:49:16
Local clock offset: -0.708 ms
Remote clock offset: 0.151 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 53.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 52.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 0.00%
Run 1: Report of LEDBAT — Data Link

Throughput (Mbit/s)

Flow 1 ingress (mean 32.48 Mbit/s)
Flow 1 egress (mean 32.48 Mbit/s)
Flow 2 ingress (mean 23.56 Mbit/s)
Flow 2 egress (mean 23.56 Mbit/s)
Flow 3 ingress (mean 10.52 Mbit/s)
Flow 3 egress (mean 10.52 Mbit/s)

Per packet one way delay (ms)

Flow 1 (95th percentile 52.81 ms)
Flow 2 (95th percentile 53.79 ms)
Flow 3 (95th percentile 54.00 ms)
Run 2: Statistics of LEDBAT

Start at: 2018-05-26 03:11:44
End at: 2018-05-26 03:12:14
Local clock offset: -0.447 ms
Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.66 Mbit/s
95th percentile per-packet one-way delay: 54.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 54.748 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.93 Mbit/s
95th percentile per-packet one-way delay: 54.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.27 Mbit/s
95th percentile per-packet one-way delay: 52.140 ms
Loss rate: 0.00%
Run 2: Report of LEDBAT — Data Link

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

![Graph 2: Per packet round trip delay vs Time](image)
Run 3: Statistics of LEDBAT

Start at: 2018-05-26 03:35:04
End at: 2018-05-26 03:35:34
Local clock offset: -0.355 ms
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.54 Mbit/s
95th percentile per-packet one-way delay: 54.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 54.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.55 Mbit/s
95th percentile per-packet one-way delay: 54.539 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 54.492 ms
Loss rate: 0.00%
Run 3: Report of LEDBAT — Data Link

![Graph](image-url)

**Throughput (Mbps)**

- **Flow 1 ingress (mean 31.47 Mbps)**
- **Flow 1 egress (mean 31.47 Mbps)**
- **Flow 2 ingress (mean 22.56 Mbps)**
- **Flow 2 egress (mean 22.55 Mbps)**
- **Flow 3 ingress (mean 9.30 Mbps)**
- **Flow 3 egress (mean 9.29 Mbps)**

**Per packet one-way delay [ms]**

- **Flow 1 (95th percentile 54.62 ms)**
- **Flow 2 (95th percentile 54.54 ms)**
- **Flow 3 (95th percentile 54.49 ms)**
Run 4: Statistics of LEDBAT

Start at: 2018-05-26 03:58:16
End at: 2018-05-26 03:58:46
Local clock offset: -0.628 ms
Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 47.85 Mbit/s
  95th percentile per-packet one-way delay: 55.360 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 30.21 Mbit/s
  95th percentile per-packet one-way delay: 55.333 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 21.52 Mbit/s
  95th percentile per-packet one-way delay: 55.889 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 10.18 Mbit/s
  95th percentile per-packet one-way delay: 54.526 ms
  Loss rate: 0.00%
Run 4: Report of LEDBAT — Data Link
Run 5: Statistics of LEDBAT

Start at: 2018-05-26 04:21:09
End at: 2018-05-26 04:21:39
Local clock offset: 0.207 ms
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 48.44 Mbit/s
  95th percentile per-packet one-way delay: 54.185 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 31.00 Mbit/s
  95th percentile per-packet one-way delay: 54.338 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 21.32 Mbit/s
  95th percentile per-packet one-way delay: 54.076 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 10.06 Mbit/s
  95th percentile per-packet one-way delay: 53.761 ms
  Loss rate: 0.00%
Run 5: Report of LEDBAT — Data Link

---

### Throughput (Mbit/s)

![Graph showing throughput over time for different flows](image1)

- **Flow 1 ingress** (mean 31.00 Mbit/s)
- **Flow 1 egress** (mean 31.00 Mbit/s)
- **Flow 2 ingress** (mean 21.32 Mbit/s)
- **Flow 2 egress** (mean 21.32 Mbit/s)
- **Flow 3 ingress** (mean 10.06 Mbit/s)
- **Flow 3 egress** (mean 10.06 Mbit/s)

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

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

- **Flow 1** (95th percentile 54.34 ms)
- **Flow 2** (95th percentile 54.08 ms)
- **Flow 3** (95th percentile 53.76 ms)

---

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Run 6: Statistics of LEDBAT

Start at: 2018-05-26 04:43:51
End at: 2018-05-26 04:44:21
Local clock offset: -0.048 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 50.22 Mbit/s
  95th percentile per-packet one-way delay: 55.317 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 32.92 Mbit/s
  95th percentile per-packet one-way delay: 55.266 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 20.76 Mbit/s
  95th percentile per-packet one-way delay: 55.696 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 10.71 Mbit/s
  95th percentile per-packet one-way delay: 54.745 ms
  Loss rate: 0.00%
Run 6: Report of LEDBAT — Data Link

---

**Throughput vs Time**

- **Flow 1 Ingress (mean 32.92 Mbit/s)**
- **Flow 1 Egress (mean 32.92 Mbit/s)**
- **Flow 2 Ingress (mean 20.76 Mbit/s)**
- **Flow 2 Egress (mean 20.76 Mbit/s)**
- **Flow 3 Ingress (mean 10.72 Mbit/s)**
- **Flow 3 Egress (mean 10.71 Mbit/s)**

**Per Packet Round Trip Delay**

- **Flow 1 (95th percentile 55.27 ms)**
- **Flow 2 (95th percentile 55.70 ms)**
- **Flow 3 (95th percentile 54.74 ms)**
Run 7: Statistics of LEDBAT

Start at: 2018-05-26 05:06:58
End at: 2018-05-26 05:07:28
Local clock offset: 0.179 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 54.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 54.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 54.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 54.301 ms
Loss rate: 0.00%
Run 7: Report of LEDBAT — Data Link
Run 8: Statistics of LEDBAT

Start at: 2018-05-26 05:29:54
End at: 2018-05-26 05:30:24
Local clock offset: 0.157 ms
Remote clock offset: 0.348 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.10 Mbit/s
95th percentile per-packet one-way delay: 55.060 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 54.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 55.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 54.669 ms
Loss rate: 0.00%
Run 8: Report of LEDBAT — Data Link

Graph 1: Throughput (Mbps)

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

Legend:
- Blue dashed line: Flow 1 ingress (mean 31.46 Mbps)
- Purple dashed line: Flow 1 egress (mean 31.46 Mbps)
- Green dashed line: Flow 2 ingress (mean 21.44 Mbps)
- Gray dashed line: Flow 2 egress (mean 21.44 Mbps)
- Red dashed line: Flow 3 ingress (mean 10.28 Mbps)
- Pink dashed line: Flow 3 egress (mean 10.28 Mbps)
Run 9: Statistics of LEDBAT

Start at: 2018-05-26 05:52:55
End at: 2018-05-26 05:53:25
Local clock offset: 0.1 ms
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 54.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 54.352 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.25 Mbit/s
95th percentile per-packet one-way delay: 54.282 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 54.495 ms
Loss rate: 0.00%
Run 9: Report of LEDBAT — Data Link

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

![Graph 2: Packet Delay over Time](image2)
Run 10: Statistics of LEDBAT

Start at: 2018-05-26 06:15:36
End at: 2018-05-26 06:16:06
Local clock offset: -0.465 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 46.77 Mbit/s
  95th percentile per-packet one-way delay: 55.218 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 30.90 Mbit/s
  95th percentile per-packet one-way delay: 55.176 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 21.52 Mbit/s
  95th percentile per-packet one-way delay: 55.275 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 4.74 Mbit/s
  95th percentile per-packet one-way delay: 55.440 ms
  Loss rate: 0.00%
Run 10: Report of LEDBAT — Data Link
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-26 02:57:14
End at: 2018-05-26 02:57:44
Local clock offset: -0.285 ms
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 578.60 Mbit/s
95th percentile per-packet one-way delay: 167.797 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 470.47 Mbit/s
95th percentile per-packet one-way delay: 167.713 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 106.14 Mbit/s
95th percentile per-packet one-way delay: 168.058 ms
Loss rate: 2.82%
-- Flow 3:
Average throughput: 114.14 Mbit/s
95th percentile per-packet one-way delay: 168.133 ms
Loss rate: 4.28%
Run 1: Report of PCC-Allegro — Data Link
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-26 03:20:19
End at: 2018-05-26 03:20:49
Local clock offset: -0.75 ms
Remote clock offset: 0.152 ms

# Below is generated by plot.py at 2018-05-26 08:04:24
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 599.13 Mbit/s
  95th percentile per-packet one-way delay: 166.049 ms
  Loss rate: 2.95%
-- Flow 1:
  Average throughput: 492.87 Mbit/s
  95th percentile per-packet one-way delay: 166.014 ms
  Loss rate: 2.70%
-- Flow 2:
  Average throughput: 152.50 Mbit/s
  95th percentile per-packet one-way delay: 166.119 ms
  Loss rate: 4.00%
-- Flow 3:
  Average throughput: 15.19 Mbit/s
  95th percentile per-packet one-way delay: 166.764 ms
  Loss rate: 5.85%
Run 2: Report of PCC-Allegro — Data Link

[Graph showing throughput and per-packet delivery delay over time for different flows with their respective mean values and percentile delays.]
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-26 03:43:53
End at: 2018-05-26 03:44:23
Local clock offset: -0.229 ms
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-05-26 08:04:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 625.66 Mbit/s
95th percentile per-packet one-way delay: 164.610 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 598.83 Mbit/s
95th percentile per-packet one-way delay: 164.584 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 164.670 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 165.489 ms
Loss rate: 2.21%
Run 3: Report of PCC-Allegro — Data Link

![Graph of Throughput (Mbps) over time for different flows]
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-26 04:06:31
End at: 2018-05-26 04:07:01
Local clock offset: -0.513 ms
Remote clock offset: -0.241 ms

# Below is generated by plot.py at 2018-05-26 08:04:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.26 Mbit/s
95th percentile per-packet one-way delay: 169.470 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 485.89 Mbit/s
95th percentile per-packet one-way delay: 169.584 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 139.95 Mbit/s
95th percentile per-packet one-way delay: 169.524 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 62.10 Mbit/s
95th percentile per-packet one-way delay: 120.388 ms
Loss rate: 0.56%
Run 4: Report of PCC-Allegro — Data Link

![Graph showing throughput and per-packet delay over time]
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-26 04:29:18  
End at: 2018-05-26 04:29:48  
Local clock offset: 0.044 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-05-26 08:05:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 631.21 Mbit/s  
95th percentile per-packet one-way delay: 159.152 ms  
Loss rate: 0.58%
-- Flow 1:
Average throughput: 579.06 Mbit/s  
95th percentile per-packet one-way delay: 159.039 ms  
Loss rate: 0.58%
-- Flow 2:
Average throughput: 62.71 Mbit/s  
95th percentile per-packet one-way delay: 159.385 ms  
Loss rate: 0.52%
-- Flow 3:
Average throughput: 31.86 Mbit/s  
95th percentile per-packet one-way delay: 159.985 ms  
Loss rate: 1.03%
Run 5: Report of PCC-Allegro — Data Link

![Graph 1: Throughput (Mbps)]

- Flow 1 ingress (mean 582.45 Mbps)
- Flow 1 egress (mean 579.06 Mbps)
- Flow 2 ingress (mean 63.02 Mbps)
- Flow 2 egress (mean 62.71 Mbps)
- Flow 3 ingress (mean 32.20 Mbps)
- Flow 3 egress (mean 31.86 Mbps)

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

- Flow 1 (95th percentile 159.04 ms)
- Flow 2 (95th percentile 159.38 ms)
- Flow 3 (95th percentile 159.99 ms)
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-26 04:52:15
End at: 2018-05-26 04:52:46
Local clock offset: 0.16 ms
Remote clock offset: -0.328 ms

# Below is generated by plot.py at 2018-05-26 08:05:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 585.47 Mbit/s
95th percentile per-packet one-way delay: 168.762 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 495.19 Mbit/s
95th percentile per-packet one-way delay: 168.652 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 133.68 Mbit/s
95th percentile per-packet one-way delay: 169.299 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 170.696 ms
Loss rate: 3.17%
Run 6: Report of PCC-Allegro — Data Link

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

Legend:
- Flow 1 ingress (mean 501.96 Mbit/s)
- Flow 1 egress (mean 495.19 Mbit/s)
- Flow 2 ingress (mean 135.71 Mbit/s)
- Flow 2 egress (mean 133.68 Mbit/s)
- Flow 3 ingress (mean 4.55 Mbit/s)
- Flow 3 egress (mean 4.40 Mbit/s)
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-26 05:15:21
End at: 2018-05-26 05:15:51
Local clock offset: -0.013 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2018-05-26 08:13:47
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 623.75 Mbit/s
  95th percentile per-packet one-way delay: 164.944 ms
  Loss rate: 1.81%
-- Flow 1:
  Average throughput: 589.06 Mbit/s
  95th percentile per-packet one-way delay: 164.734 ms
  Loss rate: 1.78%
-- Flow 2:
  Average throughput: 37.20 Mbit/s
  95th percentile per-packet one-way delay: 166.243 ms
  Loss rate: 1.93%
-- Flow 3:
  Average throughput: 30.55 Mbit/s
  95th percentile per-packet one-way delay: 168.070 ms
  Loss rate: 3.39%
Run 7: Report of PCC-Allegro — Data Link
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 05:38:16
End at: 2018-05-26 05:38:46
Local clock offset: -0.194 ms
Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2018-05-26 08:13:58
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 598.43 Mbit/s
  95th percentile per-packet one-way delay: 176.710 ms
  Loss rate: 1.24%
-- Flow 1:
  Average throughput: 591.19 Mbit/s
  95th percentile per-packet one-way delay: 176.732 ms
  Loss rate: 1.25%
-- Flow 2:
  Average throughput: 2.42 Mbit/s
  95th percentile per-packet one-way delay: 173.228 ms
  Loss rate: 0.65%
-- Flow 3:
  Average throughput: 17.13 Mbit/s
  95th percentile per-packet one-way delay: 65.811 ms
  Loss rate: 0.00%
Run 8: Report of PCC-Allegro — Data Link

![Throughput and Delay Graphs]

- Flow 1 ingress (mean 598.62 Mbit/s)
- Flow 1 egress (mean 591.19 Mbit/s)
- Flow 2 ingress (mean 2.44 Mbit/s)
- Flow 2 egress (mean 2.42 Mbit/s)
- Flow 3 ingress (mean 17.13 Mbit/s)
- Flow 3 egress (mean 17.13 Mbit/s)

![Delay Graphs]

- Flow 1 (95th percentile 176.73 ms)
- Flow 2 (95th percentile 173.23 ms)
- Flow 3 (95th percentile 65.81 ms)
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-26 06:00:56
End at: 2018-05-26 06:01:26
Local clock offset: 0.04 ms
Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-05-26 08:13:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 593.15 Mbit/s
95th percentile per-packet one-way delay: 164.169 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 473.18 Mbit/s
95th percentile per-packet one-way delay: 164.367 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 119.84 Mbit/s
95th percentile per-packet one-way delay: 164.679 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 122.74 Mbit/s
95th percentile per-packet one-way delay: 160.659 ms
Loss rate: 2.20%
Run 9: Report of PCC-Allegro — Data Link

![Graph showing network throughput and per-packet end-to-end delay over time.](image-url)
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 06:24:08
End at: 2018-05-26 06:24:38
Local clock offset: 0.372 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2018-05-26 08:15:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 635.62 Mbit/s
95th percentile per-packet one-way delay: 161.918 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 552.03 Mbit/s
95th percentile per-packet one-way delay: 161.959 ms
Loss rate: 3.84%
-- Flow 2:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 161.290 ms
Loss rate: 3.35%
-- Flow 3:
Average throughput: 111.88 Mbit/s
95th percentile per-packet one-way delay: 162.583 ms
Loss rate: 5.62%
Run 10: Report of PCC-Allegro — Data Link

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

- **Flow 1 ingress (mean 574.06 Mbps)**
- **Flow 1 egress (mean 552.03 Mbps)**
- **Flow 2 ingress (mean 72.78 Mbps)**
- **Flow 2 egress (mean 70.35 Mbps)**
- **Flow 3 ingress (mean 118.52 Mbps)**
- **Flow 3 egress (mean 111.08 Mbps)**

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

- **Flow 1 (95th percentile 161.96 ms)**
- **Flow 2 (95th percentile 161.29 ms)**
- **Flow 3 (95th percentile 162.58 ms)**
Run 1: Statistics of PCC-Expr

Start at: 2018-05-26 02:49:58
End at: 2018-05-26 02:50:28
Local clock offset: -0.526 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-05-26 08:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.07 Mbit/s
95th percentile per-packet one-way delay: 157.270 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 289.74 Mbit/s
95th percentile per-packet one-way delay: 161.100 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 234.50 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 53.621 ms
Loss rate: 0.00%
Run 1: Report of PCC-Expr — Data Link
Run 2: Statistics of PCC-Expr

Start at: 2018-05-26 03:12:54
End at: 2018-05-26 03:13:24
Local clock offset: -0.691 ms
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-05-26 08:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.27 Mbit/s
95th percentile per-packet one-way delay: 232.483 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 250.69 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.42 Mbit/s
95th percentile per-packet one-way delay: 240.077 ms
Loss rate: 3.73%
-- Flow 3:
Average throughput: 61.58 Mbit/s
95th percentile per-packet one-way delay: 54.089 ms
Loss rate: 0.00%
Run 2: Report of PCC-Expr — Data Link

![Throughput Graph]

- **Flow 1 ingress** (mean 250.69 Mbit/s)
- **Flow 1 egress** (mean 250.69 Mbit/s)
- **Flow 2 ingress** (mean 201.96 Mbit/s)
- **Flow 2 egress** (mean 194.42 Mbit/s)
- **Flow 3 ingress** (mean 61.57 Mbit/s)
- **Flow 3 egress** (mean 61.58 Mbit/s)

![Delay Graph]

- **Flow 1** (95th percentile 54.09 ms)
- **Flow 2** (95th percentile 240.08 ms)
- **Flow 3** (95th percentile 54.09 ms)
Run 3: Statistics of PCC-Expr

Start at: 2018-05-26 03:36:15
End at: 2018-05-26 03:36:45
Local clock offset: -0.551 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-05-26 08:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.25 Mbit/s
95th percentile per-packet one-way delay: 168.071 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 319.33 Mbit/s
95th percentile per-packet one-way delay: 184.915 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 98.52 Mbit/s
95th percentile per-packet one-way delay: 53.825 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 174.03 Mbit/s
95th percentile per-packet one-way delay: 76.657 ms
Loss rate: 0.00%
Run 3: Report of PCC-Expr — Data Link
Run 4: Statistics of PCC-Expr

Start at: 2018-05-26 03:59:27
End at: 2018-05-26 03:59:57
Local clock offset: -0.729 ms
Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-05-26 08:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.12 Mbit/s
95th percentile per-packet one-way delay: 202.790 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 171.84 Mbit/s
95th percentile per-packet one-way delay: 56.541 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 216.41 Mbit/s
95th percentile per-packet one-way delay: 210.399 ms
Loss rate: 4.49%
-- Flow 3:
Average throughput: 161.92 Mbit/s
95th percentile per-packet one-way delay: 71.769 ms
Loss rate: 0.01%
Run 5: Statistics of PCC-Expr

End at: 2018-05-26 04:22:50
Local clock offset: 0.002 ms
Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2018-05-26 08:29:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 417.18 Mbit/s
95th percentile per-packet one-way delay: 277.404 ms
Loss rate: 8.10%
-- Flow 1:
Average throughput: 377.30 Mbit/s
95th percentile per-packet one-way delay: 278.037 ms
Loss rate: 8.15%
-- Flow 2:
Average throughput: 57.97 Mbit/s
95th percentile per-packet one-way delay: 168.740 ms
Loss rate: 7.63%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 169.472 ms
Loss rate: 7.89%
Run 5: Report of PCC-Expr — Data Link

![Diagram showing throughput and per-packet one-way delay over time for different flows.](image-url)
Run 6: Statistics of PCC-Expr

Start at: 2018-05-26 04:45:03
End at: 2018-05-26 04:45:33
Local clock offset: 0.162 ms
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-05-26 08:32:53
# Datalink statistics
-- Total of 3 flows:
   Average throughput: 500.36 Mbit/s
   95th percentile per-packet one-way delay: 271.526 ms
   Loss rate: 11.63%
-- Flow 1:
   Average throughput: 420.63 Mbit/s
   95th percentile per-packet one-way delay: 275.444 ms
   Loss rate: 12.58%
-- Flow 2:
   Average throughput: 118.22 Mbit/s
   95th percentile per-packet one-way delay: 186.258 ms
   Loss rate: 6.24%
-- Flow 3:
   Average throughput: 3.32 Mbit/s
   95th percentile per-packet one-way delay: 187.930 ms
   Loss rate: 9.14%
Run 6: Report of PCC-Expr — Data Link

![Graph 1](attachment:image1.png)

![Graph 2](attachment:image2.png)
Run 7: Statistics of PCC-Expr

Start at: 2018-05-26 05:08:09
End at: 2018-05-26 05:08:39
Local clock offset: 0.148 ms
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-05-26 08:32:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 411.45 Mbit/s
95th percentile per-packet one-way delay: 58.128 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 319.17 Mbit/s
95th percentile per-packet one-way delay: 61.298 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 53.611 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 53.727 ms
Loss rate: 0.00%
Run 7: Report of PCC-Expr — Data Link

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

Legend:
- Flow 1 ingress (mean 319.32 Mbit/s)
- Flow 1 egress (mean 319.17 Mbit/s)
- Flow 2 ingress (mean 96.69 Mbit/s)
- Flow 2 egress (mean 96.90 Mbit/s)
- Flow 3 ingress (mean 84.46 Mbit/s)
- Flow 3 egress (mean 84.46 Mbit/s)
Run 8: Statistics of PCC-Expr

Start at: 2018-05-26 05:31:06  
End at: 2018-05-26 05:31:36  
Local clock offset: -0.059 ms  
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-05-26 08:34:12  
# Datalink statistics  
-- Total of 3 flows: 
Average throughput: 511.86 Mbit/s  
95th percentile per-packet one-way delay: 167.423 ms  
Loss rate: 7.02%

-- Flow 1: 
Average throughput: 370.22 Mbit/s  
95th percentile per-packet one-way delay: 167.629 ms  
Loss rate: 5.99%

-- Flow 2: 
Average throughput: 208.83 Mbit/s  
95th percentile per-packet one-way delay: 167.285 ms  
Loss rate: 9.69%

-- Flow 3: 
Average throughput: 8.29 Mbit/s  
95th percentile per-packet one-way delay: 159.947 ms  
Loss rate: 6.77%
Run 8: Report of PCC-Expr — Data Link

![Graph 1](image1)

Graph 1: Throughput (Mb/s) vs. Time (s)
- Flow 1 ingress: Mean 393.86 Mb/s
- Flow 1 egress: Mean 370.22 Mb/s
- Flow 2 ingress: Mean 231.29 Mb/s
- Flow 2 egress: Mean 208.83 Mb/s
- Flow 3 ingress: Mean 8.89 Mb/s
- Flow 3 egress: Mean 8.29 Mb/s

![Graph 2](image2)

Graph 2: Per packet one-way delay (ms) vs. Time (s)
- Flow 1: 95th percentile 167.63 ms
- Flow 2: 95th percentile 167.28 ms
- Flow 3: 95th percentile 159.95 ms

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Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 05:54:05
End at: 2018-05-26 05:54:35
Local clock offset: -0.286 ms
Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2018-05-26 08:34:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 250.77 Mbit/s
95th percentile per-packet one-way delay: 55.620 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.25 Mbit/s
95th percentile per-packet one-way delay: 54.039 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 121.67 Mbit/s
95th percentile per-packet one-way delay: 54.081 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 198.80 Mbit/s
95th percentile per-packet one-way delay: 80.699 ms
Loss rate: 0.00%
Run 9: Report of PCC-Expr — Data Link

![Graph showing throughput and per-packet one-way delay over time for different flows.](image_url)
Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 06:16:48
End at: 2018-05-26 06:17:18
Local clock offset: 0.319 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 486.34 Mbit/s
  95th percentile per-packet one-way delay: 183.878 ms
  Loss rate: 9.69%
-- Flow 1:
  Average throughput: 343.56 Mbit/s
  95th percentile per-packet one-way delay: 187.331 ms
  Loss rate: 9.29%
-- Flow 2:
  Average throughput: 179.80 Mbit/s
  95th percentile per-packet one-way delay: 183.525 ms
  Loss rate: 9.57%
-- Flow 3:
  Average throughput: 70.41 Mbit/s
  95th percentile per-packet one-way delay: 180.003 ms
  Loss rate: 15.61%
Run 10: Report of PCC-Expr — Data Link

![Graph 1](image1.png)

- Flow 1 ingress (mean 378.72 Mbit/s)
- Flow 1 egress (mean 343.56 Mbit/s)
- Flow 2 ingress (mean 198.60 Mbit/s)
- Flow 2 egress (mean 179.88 Mbit/s)
- Flow 3 ingress (mean 83.43 Mbit/s)
- Flow 3 egress (mean 70.41 Mbit/s)

![Graph 2](image2.png)

- Flow 1 (95th percentile 187.33 ms)
- Flow 2 (95th percentile 183.53 ms)
- Flow 3 (95th percentile 180.00 ms)
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-26 03:01:08
End at: 2018-05-26 03:01:38
Local clock offset: -0.223 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 60.06 Mbit/s
  95th percentile per-packet one-way delay: 53.501 ms
  Loss rate: 0.01%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 53.100 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 58.73 Mbit/s
  95th percentile per-packet one-way delay: 53.517 ms
  Loss rate: 0.02%
-- Flow 3:
  Average throughput: 64.65 Mbit/s
  95th percentile per-packet one-way delay: 50.416 ms
  Loss rate: 0.00%
Run 1: Report of QUIC Cubic — Data Link
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-26 03:24:13
End at: 2018-05-26 03:24:43
Local clock offset: -0.4 ms
Remote clock offset: 0.192 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 109.19 Mbit/s
  95th percentile per-packet one-way delay: 53.839 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 64.34 Mbit/s
  95th percentile per-packet one-way delay: 50.454 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 55.21 Mbit/s
  95th percentile per-packet one-way delay: 53.880 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 24.92 Mbit/s
  95th percentile per-packet one-way delay: 53.850 ms
  Loss rate: 0.00%
Run 2: Report of QUIC Cubic — Data Link
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-26 03:47:51
End at: 2018-05-26 03:48:21
Local clock offset: -0.788 ms
Remote clock offset: -0.438 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 108.68 Mbit/s
95th percentile per-packet one-way delay: 53.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.91 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.14 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.00%
Run 3: Report of QUIC Cubic — Data Link
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-26 04:10:26
End at: 2018-05-26 04:10:56
Local clock offset: -0.143 ms
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 52.32 Mbit/s
  95th percentile per-packet one-way delay: 52.928 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.06 Mbit/s
  95th percentile per-packet one-way delay: 49.942 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 66.89 Mbit/s
  95th percentile per-packet one-way delay: 52.940 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 24.14 Mbit/s
  95th percentile per-packet one-way delay: 50.292 ms
  Loss rate: 0.00%
Run 4: Report of QUIC Cubic — Data Link

![Graph of Throughput and Latency](image-url)

- **Throughput Graph:**
  - Flow 1 ingress (mean 0.06 Mbit/s)
  - Flow 1 egress (mean 0.06 Mbit/s)
  - Flow 2 ingress (mean 66.87 Mbit/s)
  - Flow 2 egress (mean 66.89 Mbit/s)
  - Flow 3 ingress (mean 24.14 Mbit/s)
  - Flow 3 egress (mean 24.14 Mbit/s)

- **Latency Graph:**
  - Flow 1 (95th percentile 49.94 ms)
  - Flow 2 (95th percentile 52.94 ms)
  - Flow 3 (95th percentile 50.29 ms)
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-26 04:33:13
End at: 2018-05-26 04:33:43
Local clock offset: -0.069 ms
Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 53.502 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 67.41 Mbit/s
95th percentile per-packet one-way delay: 50.470 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.41 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 26.95 Mbit/s
95th percentile per-packet one-way delay: 53.639 ms
Loss rate: 0.06%
Run 5: Report of QUIC Cubic — Data Link

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

- Flow 1 ingress (mean 67.41 Mbps)
- Flow 1 egress (mean 67.41 Mbps)
- Flow 2 ingress (mean 48.42 Mbps)
- Flow 2 egress (mean 48.42 Mbps)
- Flow 3 ingress (mean 26.95 Mbps)
- Flow 3 egress (mean 26.95 Mbps)

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

- Flow 1 (95th percentile 50.47 ms)
- Flow 2 (95th percentile 53.52 ms)
- Flow 3 (95th percentile 53.64 ms)
Run 6: Statistics of QUIC Cubic

Start at: 2018-05-26 04:56:13
End at: 2018-05-26 04:56:43
Local clock offset: -0.221 ms
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%
Run 6: Report of QUIC Cubic — Data Link

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

Legend:
- Flow 1 ingress (mean 0.06 Mbit/s)
- Flow 1 egress (mean 0.06 Mbit/s)
- Flow 2 ingress (mean 45.44 Mbit/s)
- Flow 2 egress (mean 45.44 Mbit/s)
- Flow 3 ingress (mean 53.84 Mbit/s)
- Flow 3 egress (mean 53.86 Mbit/s)

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

Legend:
- Flow 1 (95th percentile 50.86 ms)
- Flow 2 (95th percentile 53.27 ms)
- Flow 3 (95th percentile 53.84 ms)
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-26 05:19:16
End at: 2018-05-26 05:19:46
Local clock offset: 0.199 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 106.09 Mbit/s
95th percentile per-packet one-way delay: 53.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 53.518 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 52.963 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.77 Mbit/s
95th percentile per-packet one-way delay: 53.568 ms
Loss rate: 0.00%
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-26 05:42:15
End at: 2018-05-26 05:42:45
Local clock offset: -0.26 ms
Remote clock offset: -0.396 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 118.94 Mbit/s
  95th percentile per-packet one-way delay: 53.588 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 68.59 Mbit/s
  95th percentile per-packet one-way delay: 53.566 ms
  Loss rate: 0.01%
-- Flow 2:
  Average throughput: 64.71 Mbit/s
  95th percentile per-packet one-way delay: 53.622 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 22.63 Mbit/s
  95th percentile per-packet one-way delay: 53.212 ms
  Loss rate: 0.00%
Run 8: Report of QUIC Cubic — Data Link

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

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

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Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 06:04:45
End at: 2018-05-26 06:05:15
Local clock offset: -0.479 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.68 Mbit/s
95th percentile per-packet one-way delay: 54.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 50.759 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.74 Mbit/s
95th percentile per-packet one-way delay: 54.178 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 54.225 ms
Loss rate: 0.00%
Run 9: Report of QUIC Cubic — Data Link

Graph 1: Throughput (Mbps)
- Flow 1 ingress (mean 71.11 Mbps)
- Flow 1 egress (mean 71.11 Mbps)
- Flow 2 ingress (mean 43.73 Mbps)
- Flow 2 egress (mean 43.74 Mbps)
- Flow 3 ingress (mean 29.16 Mbps)
- Flow 3 egress (mean 29.16 Mbps)

Graph 2: Per-packet end-to-end delay (ms)
- Flow 1 (95th percentile 50.76 ms)
- Flow 2 (95th percentile 54.18 ms)
- Flow 3 (95th percentile 54.23 ms)
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-26 06:28:09
End at: 2018-05-26 06:28:39
Local clock offset: -0.056 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.05 Mbit/s
95th percentile per-packet one-way delay: 53.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.38 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 53.633 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 53.804 ms
Loss rate: 0.00%
Run 10: Report of QUIC Cubic — Data Link

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

Throughput (Mbit/s)

<table>
<thead>
<tr>
<th>Flow 1 ingress (mean 76.37 Mbit/s)</th>
<th>Flow 1 egress (mean 76.38 Mbit/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow 2 ingress (mean 50.51 Mbit/s)</td>
<td>Flow 2 egress (mean 50.52 Mbit/s)</td>
</tr>
<tr>
<td>Flow 3 ingress (mean 21.74 Mbit/s)</td>
<td>Flow 3 egress (mean 21.74 Mbit/s)</td>
</tr>
</tbody>
</table>

Per packet round-trip delay (ms)

| Flow 1 (95th percentile 53.70 ms) | Flow 2 (95th percentile 53.63 ms) | Flow 3 (95th percentile 53.80 ms) |

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Run 1: Statistics of SCReAM

Start at: 2018-05-26 02:59:59
End at: 2018-05-26 03:00:30
Local clock offset: -0.219 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per.packet one-way delay: 53.510 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per.packet one-way delay: 53.524 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per.packet one-way delay: 53.405 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per.packet one-way delay: 53.432 ms
  Loss rate: 0.00%
Run 1: Report of SCReAM — Data Link
Run 2: Statistics of SCReAM

Start at: 2018-05-26 03:23:05
End at: 2018-05-26 03:23:35
Local clock offset: -0.431 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.345 ms
Loss rate: 0.00%
Run 2: Report of SCReAM — Data Link
Run 3: Statistics of SCReAM

Start at: 2018-05-26 03:46:43
End at: 2018-05-26 03:47:13
Local clock offset: -0.327 ms
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.170 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.342 ms
Loss rate: 0.00%
Run 3: Report of SCReAM — Data Link

![Graph showing throughput and packet loss over time for different flows.](image-url)
Run 4: Statistics of SCReAM

Start at: 2018-05-26 04:09:18
End at: 2018-05-26 04:09:48
Local clock offset: -0.266 ms
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.464 ms
Loss rate: 0.00%
Run 4: Report of SCReAM — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 0.21 Mbps)
Flow 1 egress (mean 0.21 Mbps)
Flow 2 ingress (mean 0.22 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 53.95 ms)
Flow 2 (95th percentile 50.80 ms)
Flow 3 (95th percentile 53.46 ms)
Run 5: Statistics of SCReAM

Start at: 2018-05-26 04:32:05
End at: 2018-05-26 04:32:35
Local clock offset: -0.056 ms
Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.645 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.899 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.661 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.790 ms
  Loss rate: 0.00%
Run 5: Report of SCReAM — Data Link
Run 6: Statistics of SCReAM

Start at: 2018-05-26 04:55:05
End at: 2018-05-26 04:55:35
Local clock offset: 0.157 ms
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.398 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.159 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.456 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.231 ms
  Loss rate: 0.00%
Run 6: Report of SCReAM — Data Link
Run 7: Statistics of SCReAM

Start at: 2018-05-26 05:18:08
End at: 2018-05-26 05:18:38
Local clock offset: 0.176 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.222 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.920 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.35%
Run 7: Report of SCReAM — Data Link

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

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

- Flow 1 (95th percentile 50.22 ms)
- Flow 2 (95th percentile 53.92 ms)
- Flow 3 (95th percentile 53.81 ms)
Run 8: Statistics of SCReAM

Start at: 2018-05-26 05:41:07
End at: 2018-05-26 05:41:37
Local clock offset: 0.175 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 08:35:29
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.335 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 50.709 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.21 Mbit/s
  95th percentile per-packet one-way delay: 53.383 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.283 ms
  Loss rate: 0.00%
Run 8: Report of SCReAM — Data Link

![Graph showing throughput and delay over time for different flows with mean values and percentile delays]
Run 9: Statistics of SCReAM

Start at: 2018-05-26 06:03:37
End at: 2018-05-26 06:04:07
Local clock offset: 0.11 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.43 Mbit/s
  95th percentile per-packet one-way delay: 53.669 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 50.325 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.697 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.22 Mbit/s
  95th percentile per-packet one-way delay: 53.045 ms
  Loss rate: 0.00%
Run 9: Report of SCReAM — Data Link
Run 10: Statistics of SCReAM

Start at: 2018-05-26 06:27:01
End at: 2018-05-26 06:27:31
Local clock offset: 0.191 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.971 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.510 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.051 ms
Loss rate: 0.00%
Run 10: Report of SCReAM — Data Link

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

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

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

- **Flow 1 (95th percentile 50.51 ms)**
- **Flow 2 (95th percentile 53.82 ms)**
- **Flow 3 (95th percentile 54.05 ms)**
Run 1: Statistics of Sprout

Start at: 2018-05-26 02:56:05
End at: 2018-05-26 02:56:35
Local clock offset: -0.354 ms
Remote clock offset: 0.198 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.49 Mbit/s
95th percentile per-packet one-way delay: 54.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 54.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 54.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 54.019 ms
Loss rate: 0.00%
Run 1: Report of Sprout — Data Link

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

Legend:
- **Blue** - Flow 1 ingress (mean 4.89 Mbit/s)
- **Green** - Flow 1 egress (mean 4.89 Mbit/s)
- **Red** - Flow 2 ingress (mean 5.94 Mbit/s)
- **Green dashed** - Flow 2 egress (mean 5.94 Mbit/s)
- **Blue** - Flow 3 ingress (mean 4.93 Mbit/s)
- **Red dashed** - Flow 3 egress (mean 4.93 Mbit/s)
Run 2: Statistics of Sprout

Start at: 2018-05-26 03:19:10
End at: 2018-05-26 03:19:40
Local clock offset: -0.581 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 11.58 Mbit/s
  95th percentile per-packet one-way delay: 54.797 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 6.90 Mbit/s
  95th percentile per-packet one-way delay: 54.806 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 3.81 Mbit/s
  95th percentile per-packet one-way delay: 54.868 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 6.51 Mbit/s
  95th percentile per-packet one-way delay: 54.594 ms
  Loss rate: 0.00%
Run 2: Report of Sprout — Data Link

![Graph showing network performance metrics over time]

**Legend:**
- Flow 1 ingress (mean 6.90 Mbit/s)
- Flow 1 egress (mean 6.90 Mbit/s)
- Flow 2 ingress (mean 3.81 Mbit/s)
- Flow 2 egress (mean 3.81 Mbit/s)
- Flow 3 ingress (mean 6.51 Mbit/s)
- Flow 3 egress (mean 6.51 Mbit/s)

**Metrics:**
- Throughput (Mbps)
- Per-packet one-way delay (ms)

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Run 3: Statistics of Sprout

Start at: 2018-05-26 03:42:44
End at: 2018-05-26 03:43:14
Local clock offset: -0.401 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 54.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 54.724 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 54.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 54.730 ms
Loss rate: 0.00%
Run 3: Report of Sprout — Data Link

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

![Graph 2: Per-packet one-way delay vs. Time](image2)
Run 4: Statistics of Sprout

Start at: 2018-05-26 04:05:22
End at: 2018-05-26 04:05:52
Local clock offset: -0.123 ms
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 53.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 53.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 53.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 53.396 ms
Loss rate: 0.00%
Run 4: Report of Sprout — Data Link
Run 5: Statistics of Sprout

Start at: 2018-05-26 04:28:08
End at: 2018-05-26 04:28:38
Local clock offset: 0.016 ms
Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.64 Mbit/s
95th percentile per-packet one-way delay: 54.221 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 54.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 54.188 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 54.388 ms
Loss rate: 0.00%
Run 5: Report of Sprout — Data Link

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

Legend:
- Flow 1 ingress (mean 7.17 Mbit/s)
- Flow 1 egress (mean 7.17 Mbit/s)
- Flow 2 ingress (mean 6.71 Mbit/s)
- Flow 2 egress (mean 6.71 Mbit/s)
- Flow 3 ingress (mean 6.10 Mbit/s)
- Flow 3 egress (mean 6.10 Mbit/s)

Time (s):
- Throughput (Mbit/s)
- Per packet one-way delay (ms)

Flow 1 (95th percentile 54.20 ms)
Flow 2 (95th percentile 54.19 ms)
Flow 3 (95th percentile 54.39 ms)
Run 6: Statistics of Sprout

Start at: 2018-05-26 04:51:06
End at: 2018-05-26 04:51:36
Local clock offset: 0.52 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 53.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 53.894 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 53.463 ms
Loss rate: 0.00%
Run 6: Report of Sprout — Data Link
Run 7: Statistics of Sprout

Start at: 2018-05-26 05:14:11
End at: 2018-05-26 05:14:41
Local clock offset: 0.078 ms
Remote clock offset: 0.321 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 54.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 54.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 54.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 54.546 ms
Loss rate: 0.00%
Run 7: Report of Sprout — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 6.73 Mbit/s)
Flow 1 egress (mean 6.73 Mbit/s)
Flow 2 ingress (mean 6.65 Mbit/s)
Flow 2 egress (mean 6.65 Mbit/s)
Flow 3 ingress (mean 5.40 Mbit/s)
Flow 3 egress (mean 5.40 Mbit/s)

Per packet one way delay (ms)

Time (s)

Flow 1 (95th percentile 54.68 ms)
Flow 2 (95th percentile 54.57 ms)
Flow 3 (95th percentile 54.55 ms)
Run 8: Statistics of Sprout

Start at: 2018-05-26 05:37:06
End at: 2018-05-26 05:37:36
Local clock offset: -0.459 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.02 Mbit/s
  95th percentile per-packet one-way delay: 54.928 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 6.00 Mbit/s
  95th percentile per-packet one-way delay: 54.839 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.05 Mbit/s
  95th percentile per-packet one-way delay: 54.969 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 7.05 Mbit/s
  95th percentile per-packet one-way delay: 55.024 ms
  Loss rate: 0.00%
Run 8: Report of Sprout — Data Link

![Graph showing throughput and per-packet one-way delay over time for different network flows.](image-url)
Run 9: Statistics of Sprout

Start at: 2018-05-26 05:59:47
End at: 2018-05-26 06:00:17
Local clock offset: 0.079 ms
Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 13.29 Mbit/s
  95th percentile per-packet one-way delay: 54.290 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 6.90 Mbit/s
  95th percentile per-packet one-way delay: 54.186 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 7.05 Mbit/s
  95th percentile per-packet one-way delay: 54.362 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 5.18 Mbit/s
  95th percentile per-packet one-way delay: 54.322 ms
  Loss rate: 0.00%
Run 9: Report of Sprout — Data Link

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

- **Flow 1 ingress (mean 6.90 Mbit/s)**
- **Flow 1 egress (mean 6.90 Mbit/s)**
- **Flow 2 ingress (mean 7.05 Mbit/s)**
- **Flow 2 egress (mean 7.05 Mbit/s)**
- **Flow 3 ingress (mean 5.18 Mbit/s)**
- **Flow 3 egress (mean 5.18 Mbit/s)**

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

- **Flow 1 (95th percentile 54.19 ms)**
- **Flow 2 (95th percentile 54.38 ms)**
- **Flow 3 (95th percentile 54.32 ms)**
Run 10: Statistics of Sprout

End at: 2018-05-26 06:23:29
Local clock offset: -0.004 ms
Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.58 Mbit/s
95th percentile per-packet one-way delay: 54.391 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 54.277 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 54.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 54.536 ms
Loss rate: 0.00%
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-26 02:54:43
Local clock offset: -0.154 ms
Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.77 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 118.05 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 235.89 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.00%
Run 1: Report of TaoVA-100x — Data Link

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

- Flow 1 ingress (mean 84.85 Mbit/s)
- Flow 1 egress (mean 84.77 Mbit/s)
- Flow 2 ingress (mean 118.03 Mbit/s)
- Flow 2 egress (mean 118.05 Mbit/s)
- Flow 3 ingress (mean 235.80 Mbit/s)
- Flow 3 egress (mean 235.89 Mbit/s)
Run 2: Statistics of TaoVA-100x

Start at: 2018-05-26 03:17:37
End at: 2018-05-26 03:18:08
Local clock offset: -0.337 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2018-05-26 08:39:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.68 Mbit/s
95th percentile per-packet one-way delay: 53.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.99 Mbit/s
95th percentile per-packet one-way delay: 53.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.43 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.00%
Run 2: Report of TaoVA-100x — Data Link

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

- **Throughput** (Mbps):
  - Flow 1 ingress (mean 223.98 Mbps)
  - Flow 1 egress (mean 223.99 Mbps)
  - Flow 2 ingress (mean 76.45 Mbps)
  - Flow 2 egress (mean 76.45 Mbps)
  - Flow 3 ingress (mean 14.45 Mbps)
  - Flow 3 egress (mean 14.45 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 53.52 ms)
  - Flow 2 (95th percentile 53.73 ms)
  - Flow 3 (95th percentile 53.53 ms)
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-26 03:41:01
End at: 2018-05-26 03:41:31
Local clock offset: -0.451 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 390.35 Mbit/s
95th percentile per-packet one-way delay: 54.312 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 233.79 Mbit/s
95th percentile per-packet one-way delay: 54.316 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 203.26 Mbit/s
95th percentile per-packet one-way delay: 54.307 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 54.271 ms
Loss rate: 0.00%
Run 3: Report of TaoVA-100x — Data Link
Run 4: Statistics of TaoVA-100x

Start at: 2018-05-26 04:04:05
End at: 2018-05-26 04:04:35
Local clock offset: -0.463 ms
Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 101.46 Mbit/s
95th percentile per-packet one-way delay: 54.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.43 Mbit/s
95th percentile per-packet one-way delay: 53.697 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.56 Mbit/s
95th percentile per-packet one-way delay: 53.625 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 219.80 Mbit/s
95th percentile per-packet one-way delay: 54.142 ms
Loss rate: 0.00%
Run 4: Report of TaoVA-100x — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 13.43 Mbps)
Flow 1 egress (mean 13.43 Mbps)
Flow 2 ingress (mean 22.56 Mbps)
Flow 2 egress (mean 22.56 Mbps)
Flow 3 ingress (mean 219.79 Mbps)
Flow 3 egress (mean 219.99 Mbps)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 53.70 ms)
Flow 2 (95th percentile 53.62 ms)
Flow 3 (95th percentile 54.14 ms)
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-26 04:26:57
End at: 2018-05-26 04:27:27
Local clock offset: -0.182 ms
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.18 Mbit/s
95th percentile per-packet one-way delay: 53.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 53.536 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 53.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 53.355 ms
Loss rate: 0.00%
Run 5: Report of TaoVA-100x — Data Link
Run 6: Statistics of TaoVA-100x

Start at: 2018-05-26 04:49:44
End at: 2018-05-26 04:50:14
Local clock offset: 0.063 ms
Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.75 Mbit/s
95th percentile per-packet one-way delay: 54.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.50 Mbit/s
95th percentile per-packet one-way delay: 54.017 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 187.39 Mbit/s
95th percentile per-packet one-way delay: 54.207 ms
Loss rate: 0.00%
Run 6: Report of TaoVA-100x — Data Link

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

- **Flow 1 ingress (mean 11.71 Mbps)**
- **Flow 1 egress (mean 11.71 Mbps)**
- **Flow 2 ingress (mean 178.48 Mbps)**
- **Flow 2 egress (mean 178.50 Mbps)**
- **Flow 3 ingress (mean 187.37 Mbps)**
- **Flow 3 egress (mean 187.39 Mbps)**

![Graph 2: Packet One Way Delay (ms)]

- **Flow 1 (95th percentile 53.99 ms)**
- **Flow 2 (95th percentile 54.02 ms)**
- **Flow 3 (95th percentile 54.21 ms)**

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Run 7: Statistics of TaoVA-100x

Start at: 2018-05-26 05:12:50
End at: 2018-05-26 05:13:20
Local clock offset: 0.25 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.10 Mbit/s
95th percentile per-packet one-way delay: 53.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 114.79 Mbit/s
95th percentile per-packet one-way delay: 53.792 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.07 Mbit/s
95th percentile per-packet one-way delay: 53.575 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.88 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.00%
Run 7: Report of TaoVA-100x — Data Link
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 05:35:52
End at: 2018-05-26 05:36:22
Local clock offset: -0.015 ms
Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.02 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.19 Mbit/s
95th percentile per-packet one-way delay: 54.011 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 54.085 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 39.75 Mbit/s
95th percentile per-packet one-way delay: 54.272 ms
Loss rate: 0.00%
Run 8: Report of TaoVA-100x — Data Link
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 05:58:36
End at: 2018-05-26 05:59:06
Local clock offset: 0.09 ms
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-26 08:42:46
# Datalink statistics
--- Total of 3 flows:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 0.00%
--- Flow 1:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.00%
--- Flow 2:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.00%
--- Flow 3:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 53.637 ms
Loss rate: 0.00%
Run 9: Report of TaoVA-100x — Data Link
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 06:21:29
End at: 2018-05-26 06:21:59
Local clock offset: 0.432 ms
Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 230.33 Mbit/s
  95th percentile per-packet one-way delay: 53.525 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 68.45 Mbit/s
  95th percentile per-packet one-way delay: 53.458 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 237.36 Mbit/s
  95th percentile per-packet one-way delay: 53.558 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 11.38 Mbit/s
  95th percentile per-packet one-way delay: 53.474 ms
  Loss rate: 0.00%
Run 10: Report of TaoVA-100x — Data Link

![Graph of data link throughput and per-packet one-way delay over time.]

- **Throughput (Mbps):**
  - Flow 1 ingress (mean 68.45 Mbps)
  - Flow 1 egress (mean 68.45 Mbps)
  - Flow 2 ingress (mean 237.35 Mbps)
  - Flow 2 egress (mean 237.36 Mbps)
  - Flow 3 ingress (mean 11.38 Mbps)
  - Flow 3 egress (mean 11.38 Mbps)

- **Per-packet one-way delay (ms):**
  - Flow 1 (95th percentile 53.46 ms)
  - Flow 2 (95th percentile 53.56 ms)
  - Flow 3 (95th percentile 53.47 ms)
Run 1: Statistics of TCP Vegas

Start at: 2018-05-26 02:58:44
End at: 2018-05-26 02:59:14
Local clock offset: -0.311 ms
Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.03 Mbit/s
95th percentile per-packet one-way delay: 59.894 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 59.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 56.528 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.14 Mbit/s
95th percentile per-packet one-way delay: 60.114 ms
Loss rate: 0.05%
Run 1: Report of TCP Vegas — Data Link
Run 2: Statistics of TCP Vegas

Start at: 2018-05-26 03:21:49
End at: 2018-05-26 03:22:19
Local clock offset: -0.367 ms
Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 158.52 Mbit/s
95th percentile per-packet one-way delay: 59.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.62 Mbit/s
95th percentile per-packet one-way delay: 58.978 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 19.26 Mbit/s
95th percentile per-packet one-way delay: 58.668 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 181.04 Mbit/s
95th percentile per-packet one-way delay: 59.984 ms
Loss rate: 0.00%
Run 2: Report of TCP Vegas — Data Link

![Graph of Throughput and Per-packet One-Way Delay](image)

1. **Throughput (Mbps):**
   - Flow 1 ingress (mean 85.61 Mbps)
   - Flow 1 egress (mean 85.62 Mbps)
   - Flow 2 ingress (mean 19.26 Mbps)
   - Flow 2 egress (mean 19.26 Mbps)
   - Flow 3 ingress (mean 181.03 Mbps)
   - Flow 3 egress (mean 181.04 Mbps)

2. **Per-packet One-Way Delay (ms):**
   - Flow 1 (95th percentile 58.98 ms)
   - Flow 2 (95th percentile 58.67 ms)
   - Flow 3 (95th percentile 59.98 ms)
Run 3: Statistics of TCP Vegas

Start at: 2018-05-26 03:45:24
End at: 2018-05-26 03:45:54
Local clock offset: -0.44 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.85 Mbit/s
95th percentile per-packet one-way delay: 61.024 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 141.53 Mbit/s
95th percentile per-packet one-way delay: 61.018 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 57.294 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 203.84 Mbit/s
95th percentile per-packet one-way delay: 61.067 ms
Loss rate: 0.08%
Run 3: Report of TCP Vegas — Data Link

Time (s)

Throughput (Mbps)

Flow 1 ingress (mean 141.54 Mbit/s)
Flow 1 egress (mean 141.53 Mbit/s)
Flow 2 ingress (mean 5.41 Mbit/s)
Flow 2 egress (mean 5.41 Mbit/s)
Flow 3 ingress (mean 203.99 Mbit/s)
Flow 3 egress (mean 203.64 Mbit/s)

Time (s)

Per packet one way delay (ms)

Flow 1 (95th percentile 61.02 ms)
Flow 2 (95th percentile 57.29 ms)
Flow 3 (95th percentile 61.07 ms)
Run 4: Statistics of TCP Vegas

Start at: 2018-05-26 04:08:01
End at: 2018-05-26 04:08:31
Local clock offset: -0.271 ms
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 159.29 Mbit/s
  95th percentile per-packet one-way delay: 55.016 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 71.91 Mbit/s
  95th percentile per-packet one-way delay: 54.632 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 96.51 Mbit/s
  95th percentile per-packet one-way delay: 55.155 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 69.64 Mbit/s
  95th percentile per-packet one-way delay: 56.468 ms
  Loss rate: 0.00%
Run 4: Report of TCP Vegas — Data Link

- **Throughput (Mbps)**
  - Flow 1 ingress (mean 71.90 Mbps)
  - Flow 1 egress (mean 71.91 Mbps)
  - Flow 2 ingress (mean 96.49 Mbps)
  - Flow 2 egress (mean 96.51 Mbps)
  - Flow 3 ingress (mean 69.61 Mbps)
  - Flow 3 egress (mean 69.64 Mbps)

- **Per packet one way delay (ms)**
  - Flow 1 (95th percentile 54.63 ms)
  - Flow 2 (95th percentile 55.16 ms)
  - Flow 3 (95th percentile 56.47 ms)
Run 5: Statistics of TCP Vegas

Start at: 2018-05-26 04:30:48
End at: 2018-05-26 04:31:18
Local clock offset: 0.08 ms
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 156.01 Mbit/s
95th percentile per-packet one-way delay: 58.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 57.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 58.110 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 196.53 Mbit/s
95th percentile per-packet one-way delay: 58.402 ms
Loss rate: 0.00%
Run 5: Report of TCP Vegas — Data Link
Run 6: Statistics of TCP Vegas

Start at: 2018-05-26 04:53:44
End at: 2018-05-26 04:54:14
Local clock offset: 0.159 ms
Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.14 Mbit/s
95th percentile per-packet one-way delay: 59.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.00 Mbit/s
95th percentile per-packet one-way delay: 59.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.26 Mbit/s
95th percentile per-packet one-way delay: 57.270 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 74.40 Mbit/s
95th percentile per-packet one-way delay: 57.182 ms
Loss rate: 0.00%
Run 6: Report of TCP Vegas — Data Link

![Graph of network throughput over time for different flows.](image1.png)

![Graph of packet arrival time delay over time for different flows.](image2.png)
Run 7: Statistics of TCP Vegas

Start at: 2018-05-26 05:16:51
End at: 2018-05-26 05:17:21
Local clock offset: 0.292 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-05-26 08:43:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.92 Mbit/s
95th percentile per-packet one-way delay: 59.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 60.128 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 57.740 ms
Loss rate: 0.00%
Run 7: Report of TCP Vegas — Data Link

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

- **Flow 1 ingress (mean 15.44 Mbit/s)**
- **Flow 1 egress (mean 15.44 Mbit/s)**
- **Flow 2 ingress (mean 199.99 Mbit/s)**
- **Flow 2 egress (mean 200.00 Mbit/s)**
- **Flow 3 ingress (mean 37.42 Mbit/s)**
- **Flow 3 egress (mean 37.41 Mbit/s)**

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

- **Flow 1 (95th percentile 54.74 ms)**
- **Flow 2 (95th percentile 60.13 ms)**
- **Flow 3 (95th percentile 57.74 ms)**
Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 05:39:45
End at: 2018-05-26 05:40:15
Local clock offset: 0.41 ms
Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-05-26 08:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.15 Mbit/s
95th percentile per-packet one-way delay: 59.703 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.42 Mbit/s
95th percentile per-packet one-way delay: 59.870 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.51 Mbit/s
95th percentile per-packet one-way delay: 58.310 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 58.025 ms
Loss rate: 0.00%
Run 8: Report of TCP Vegas — Data Link

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

- **Flow 1 Ingress**: Mean 217.47 Mbit/s
- **Flow 1 Egress**: Mean 217.42 Mbit/s
- **Flow 2 Ingress**: Mean 71.50 Mbit/s
- **Flow 2 Egress**: Mean 71.51 Mbit/s
- **Flow 3 Ingress**: Mean 24.92 Mbit/s
- **Flow 3 Egress**: Mean 24.92 Mbit/s

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

- **Flow 1 95th percentile**: 59.87 ms
- **Flow 2 95th percentile**: 58.31 ms
- **Flow 3 95th percentile**: 58.02 ms
Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 06:02:26
End at: 2018-05-26 06:02:56
Local clock offset: -0.196 ms
Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-05-26 08:43:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.21 Mbit/s
95th percentile per-packet one-way delay: 54.438 ms
Loss rate: 0.00%

-- Flow 1:
Average throughput: 27.69 Mbit/s
95th percentile per-packet one-way delay: 54.310 ms
Loss rate: 0.00%

-- Flow 2:
Average throughput: 32.39 Mbit/s
95th percentile per-packet one-way delay: 54.522 ms
Loss rate: 0.00%

-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 54.606 ms
Loss rate: 0.08%
Run 9: Report of TCP Vegas — Data Link

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

- **Throughput**: Blue line for Flow 1 ingress (mean 27.69 Mbit/s), Blue line for Flow 1 egress (mean 27.69 Mbit/s), Green line for Flow 2 ingress (mean 32.39 Mbit/s), Green line for Flow 2 egress (mean 32.39 Mbit/s), Red line for Flow 3 ingress (mean 5.89 Mbit/s), Red line for Flow 3 egress (mean 5.88 Mbit/s).

- **Packet Delay**: Blue line for Flow 1 (95th percentile 54.31 ms), Green line for Flow 2 (95th percentile 54.52 ms), Red line for Flow 3 (95th percentile 54.61 ms).
Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 06:25:40
End at: 2018-05-26 06:26:10
Local clock offset: -0.019 ms
Remote clock offset: 0.068 ms

# Below is generated by plot.py at 2018-05-26 08:43:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 230.91 Mbit/s
95th percentile per-packet one-way delay: 61.644 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 131.67 Mbit/s
95th percentile per-packet one-way delay: 61.491 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 118.30 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.55 Mbit/s
95th percentile per-packet one-way delay: 54.795 ms
Loss rate: 0.00%
Run 10: Report of TCP Vegas — Data Link

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

Throughput (Mbps)

Time (s)

0 5 10 15 20 25 30

Flow 1 ingress (mean 131.75 Mbps)  Flow 1 egress (mean 131.67 Mbps)
Flow 2 ingress (mean 118.30 Mbps)  Flow 2 egress (mean 118.30 Mbps)
Flow 3 ingress (mean 61.57 Mbps)  Flow 3 egress (mean 61.55 Mbps)

Per packet one way delay (ms)

Time (s)

0 5 10 15 20 25 30

Flow 1 (95th percentile 61.49 ms)  Flow 2 (95th percentile 62.90 ms)  Flow 3 (95th percentile 54.80 ms)
Run 1: Statistics of Verus

Start at: 2018-05-26 02:51:47
End at: 2018-05-26 02:52:17
Local clock offset: ~0.273 ms
Remote clock offset: 0.451 ms

# Below is generated by plot.py at 2018-05-26 08:46:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.93 Mbit/s
95th percentile per-packet one-way delay: 111.110 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 245.16 Mbit/s
95th percentile per-packet one-way delay: 100.850 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 115.69 Mbit/s
95th percentile per-packet one-way delay: 245.622 ms
Loss rate: 2.26%
-- Flow 3:
Average throughput: 157.63 Mbit/s
95th percentile per-packet one-way delay: 141.413 ms
Loss rate: 0.37%
Run 1: Report of Verus — Data Link

---

**Throughput (Mbps)**

- **Flow 1 ingress** (mean 245.40 Mbps)
- **Flow 1 egress** (mean 245.16 Mbps)
- **Flow 2 ingress** (mean 112.44 Mbps)
- **Flow 2 egress** (mean 115.69 Mbps)
- **Flow 3 ingress** (mean 158.15 Mbps)
- **Flow 3 egress** (mean 157.63 Mbps)

---

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

- **Flow 1** (95th percentile 100.85 ms)
- **Flow 2** (95th percentile 245.62 ms)
- **Flow 3** (95th percentile 141.41 ms)
Run 2: Statistics of Verus

Start at: 2018-05-26 03:14:40
End at: 2018-05-26 03:15:10
Local clock offset: -0.694 ms
Remote clock offset: 0.139 ms

# Below is generated by plot.py at 2018-05-26 08:47:27
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 382.77 Mbit/s
  95th percentile per-packet one-way delay: 204.310 ms
  Loss rate: 3.90%
-- Flow 1:
  Average throughput: 205.80 Mbit/s
  95th percentile per-packet one-way delay: 170.744 ms
  Loss rate: 1.79%
-- Flow 2:
  Average throughput: 217.68 Mbit/s
  95th percentile per-packet one-way delay: 210.864 ms
  Loss rate: 4.77%
-- Flow 3:
  Average throughput: 112.53 Mbit/s
  95th percentile per-packet one-way delay: 271.785 ms
  Loss rate: 12.09%
Run 2: Report of Verus — Data Link

![Graph showing network throughput and packet delay over time for different flows.](image-url)
Run 3: Statistics of Verus

Start at: 2018-05-26 03:38:01
End at: 2018-05-26 03:38:31
Local clock offset: -0.184 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-26 08:48:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.46 Mbit/s
95th percentile per-packet one-way delay: 144.281 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 251.71 Mbit/s
95th percentile per-packet one-way delay: 149.977 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 142.00 Mbit/s
95th percentile per-packet one-way delay: 126.228 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 110.35 Mbit/s
95th percentile per-packet one-way delay: 139.649 ms
Loss rate: 1.53%
Run 3: Report of Verus — Data Link

---

**Throughput (Mbps)**

- Flow 1 ingress (mean 253.80 Mbps)
- Flow 1 egress (mean 251.71 Mbps)
- Flow 2 ingress (mean 142.77 Mbps)
- Flow 2 egress (mean 142.00 Mbps)
- Flow 3 ingress (mean 112.04 Mbps)
- Flow 3 egress (mean 110.35 Mbps)

---

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

- Flow 1 (95th percentile 149.98 ms)
- Flow 2 (95th percentile 126.23 ms)
- Flow 3 (95th percentile 139.65 ms)

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Run 4: Statistics of Verus

Start at: 2018-05-26 04:01:08
End at: 2018-05-26 04:01:38
Local clock offset: ~0.195 ms
Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-26 08:49:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.33 Mbit/s
95th percentile per-packet one-way delay: 150.220 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 183.53 Mbit/s
95th percentile per-packet one-way delay: 98.121 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 202.10 Mbit/s
95th percentile per-packet one-way delay: 132.210 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 200.99 Mbit/s
95th percentile per-packet one-way delay: 193.724 ms
Loss rate: 3.01%
Run 4: Report of Verus — Data Link
Run 5: Statistics of Verus

End at: 2018-05-26 04:24:28
Local clock offset: -0.195 ms
Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-05-26 08:50:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.27 Mbit/s
95th percentile per-packet one-way delay: 164.559 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 238.90 Mbit/s
95th percentile per-packet one-way delay: 124.835 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 149.14 Mbit/s
95th percentile per-packet one-way delay: 200.202 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 197.90 Mbit/s
95th percentile per-packet one-way delay: 180.702 ms
Loss rate: 5.23%
Run 5: Report of Verus — Data Link

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

- Flow 1 ingress (mean 241.33 Mbit/s)
- Flow 1 egress (mean 238.90 Mbit/s)
- Flow 2 ingress (mean 146.88 Mbit/s)
- Flow 2 egress (mean 149.14 Mbit/s)
- Flow 3 ingress (mean 208.86 Mbit/s)
- Flow 3 egress (mean 197.00 Mbit/s)

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

- Flow 1 (95th percentile 124.83 ms)
- Flow 2 (95th percentile 200.20 ms)
- Flow 3 (95th percentile 180.70 ms)
Run 6: Statistics of Verus

Start at: 2018-05-26 04:46:45
End at: 2018-05-26 04:47:15
Local clock offset: 0.608 ms
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2018-05-26 08:50:00
# Datalink statistics
  -- Total of 3 flows:
  Average throughput: 361.41 Mbit/s
  95th percentile per-packet one-way delay: 212.431 ms
  Loss rate: 1.83%
  -- Flow 1:
  Average throughput: 283.39 Mbit/s
  95th percentile per-packet one-way delay: 226.350 ms
  Loss rate: 2.22%
  -- Flow 2:
  Average throughput: 86.03 Mbit/s
  95th percentile per-packet one-way delay: 143.327 ms
  Loss rate: 0.48%
  -- Flow 3:
  Average throughput: 72.45 Mbit/s
  95th percentile per-packet one-way delay: 148.779 ms
  Loss rate: 0.14%
Run 6: Report of Verus — Data Link

Throughput (Mbps)

Time (s)

Flow 1 ingress (mean 289.82 Mbit/s)  Flow 1 egress (mean 283.39 Mbit/s)
Flow 2 ingress (mean 86.56 Mbit/s)  Flow 2 egress (mean 86.03 Mbit/s)
Flow 3 ingress (mean 65.21 Mbit/s)  Flow 3 egress (mean 72.45 Mbit/s)

Per-packet one-way delay (ms)

Time (s)

Flow 1 (95th percentile 226.35 ms)  Flow 2 (95th percentile 143.33 ms)  Flow 3 (95th percentile 148.78 ms)
Run 7: Statistics of Verus

Start at: 2018-05-26 05:09:54
End at: 2018-05-26 05:10:24
Local clock offset: 0.075 ms
Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2018-05-26 08:50:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 363.92 Mbit/s
95th percentile per-packet one-way delay: 150.944 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 222.13 Mbit/s
95th percentile per-packet one-way delay: 140.014 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 177.10 Mbit/s
95th percentile per-packet one-way delay: 164.649 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 73.32 Mbit/s
95th percentile per-packet one-way delay: 146.641 ms
Loss rate: 0.55%
Run 7: Report of Verus — Data Link
Run 8: Statistics of Verus

Start at: 2018-05-26 05:32:50
End at: 2018-05-26 05:33:20
Local clock offset: -0.005 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-26 08:51:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 406.06 Mbit/s
95th percentile per-packet one-way delay: 107.887 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 278.86 Mbit/s
95th percentile per-packet one-way delay: 101.902 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 144.56 Mbit/s
95th percentile per-packet one-way delay: 118.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.80 Mbit/s
95th percentile per-packet one-way delay: 126.128 ms
Loss rate: 0.67%
Run 8: Report of Verus — Data Link

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

- **Flow 1**: Ingress (mean 278.06 Mbit/s), Egress (mean 278.86 Mbit/s)
- **Flow 2**: Ingress (mean 137.30 Mbit/s), Egress (mean 144.56 Mbit/s)
- **Flow 3**: Ingress (mean 114.56 Mbit/s), Egress (mean 113.00 Mbit/s)

- **Packet Delay**: Flow 1 (95th percentile 101.90 ms), Flow 2 (95th percentile 118.89 ms), Flow 3 (95th percentile 126.13 ms)
Run 9: Statistics of Verus

Start at: 2018-05-26 05:55:35
End at: 2018-05-26 05:56:05
Local clock offset: 0.029 ms
Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-05-26 08:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 404.90 Mbit/s
95th percentile per-packet one-way delay: 110.363 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 198.66 Mbit/s
95th percentile per-packet one-way delay: 114.726 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 228.47 Mbit/s
95th percentile per-packet one-way delay: 105.055 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 183.52 Mbit/s
95th percentile per-packet one-way delay: 112.524 ms
Loss rate: 0.57%
Run 9: Report of Verus — Data Link

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

- **Flow 1 ingress (mean 199.43 Mbit/s)**
- **Flow 1 egress (mean 198.66 Mbit/s)**
- **Flow 2 ingress (mean 229.05 Mbit/s)**
- **Flow 2 egress (mean 228.47 Mbit/s)**
- **Flow 3 ingress (mean 165.84 Mbit/s)**
- **Flow 3 egress (mean 183.52 Mbit/s)**
Run 10: Statistics of Verus

Start at: 2018-05-26 06:18:36
End at: 2018-05-26 06:19:06
Local clock offset: 0.371 ms
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2018-05-26 08:53:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 325.23 Mbit/s
95th percentile per-packet one-way delay: 128.759 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 152.04 Mbit/s
95th percentile per-packet one-way delay: 129.392 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 164.93 Mbit/s
95th percentile per-packet one-way delay: 118.091 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 192.68 Mbit/s
95th percentile per-packet one-way delay: 144.678 ms
Loss rate: 1.28%
Run 10: Report of Verus — Data Link
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-26 02:46:59
End at: 2018-05-26 02:47:29
Local clock offset: -0.292 ms
Remote clock offset: -0.363 ms

# Below is generated by plot.py at 2018-05-26 08:58:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.14 Mbit/s
95th percentile per-packet one-way delay: 55.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 344.13 Mbit/s
95th percentile per-packet one-way delay: 53.207 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 289.34 Mbit/s
95th percentile per-packet one-way delay: 62.243 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 52.796 ms
Loss rate: 0.00%
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-26 03:09:56
End at: 2018-05-26 03:10:26
Local clock offset: -0.347 ms
Remote clock offset: -0.309 ms

# Below is generated by plot.py at 2018-05-26 08:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 588.79 Mbit/s
95th percentile per-packet one-way delay: 57.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 367.83 Mbit/s
95th percentile per-packet one-way delay: 58.643 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 300.84 Mbit/s
95th percentile per-packet one-way delay: 57.066 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.00%
Run 2: Report of PCC-Vivace — Data Link

![Graph showing network performance metrics over time](image-url)
Run 3: Statistics of PCC-Vivace

Start at: 2018-05-26 03:33:15
End at: 2018-05-26 03:33:45
Local clock offset: -0.2 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-05-26 08:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.49 Mbit/s
95th percentile per-packet one-way delay: 53.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.93 Mbit/s
95th percentile per-packet one-way delay: 53.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 298.53 Mbit/s
95th percentile per-packet one-way delay: 51.451 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 50.407 ms
Loss rate: 0.00%
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-26 03:56:30
End at: 2018-05-26 03:57:00
Local clock offset: -0.717 ms
Remote clock offset: 0.353 ms

# Below is generated by plot.py at 2018-05-26 09:00:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 564.44 Mbit/s
95th percentile per-packet one-way delay: 56.350 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 331.08 Mbit/s
95th percentile per-packet one-way delay: 55.445 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 336.12 Mbit/s
95th percentile per-packet one-way delay: 59.776 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.61 Mbit/s
95th percentile per-packet one-way delay: 54.454 ms
Loss rate: 0.00%
Run 4: Report of PCC-Vivace — Data Link

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

- Flow 1 ingress (mean 331.03 Mbps)
- Flow 1 egress (mean 331.08 Mbps)
- Flow 2 ingress (mean 335.44 Mbps)
- Flow 2 egress (mean 336.12 Mbps)
- Flow 3 ingress (mean 30.60 Mbps)
- Flow 3 egress (mean 30.61 Mbps)

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

- Flow 1 (95th percentile 55.45 ms)
- Flow 2 (95th percentile 59.78 ms)
- Flow 3 (95th percentile 54.45 ms)
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-26 04:19:22
End at: 2018-05-26 04:19:52
Local clock offset: -0.002 ms
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-05-26 09:00:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 567.45 Mbit/s
95th percentile per-packet one-way delay: 54.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 342.52 Mbit/s
95th percentile per-packet one-way delay: 55.049 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 325.78 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 50.010 ms
Loss rate: 0.00%
Run 5: Report of PCC-Vivace — Data Link
Run 6: Statistics of PCC-Vivace

Start at: 2018-05-26 04:42:02
End at: 2018-05-26 04:42:32
Local clock offset: 0.004 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-05-26 09:01:55
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 601.46 Mbit/s
  95th percentile per-packet one-way delay: 54.784 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 356.05 Mbit/s
  95th percentile per-packet one-way delay: 55.028 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 284.83 Mbit/s
  95th percentile per-packet one-way delay: 53.971 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 169.90 Mbit/s
  95th percentile per-packet one-way delay: 54.538 ms
  Loss rate: 0.00%
Run 6: Report of PCC-Vivace — Data Link
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-26 05:05:10
End at: 2018-05-26 05:05:40
Local clock offset: 0.451 ms
Remote clock offset: 0.196 ms

# Below is generated by plot.py at 2018-05-26 09:02:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 599.95 Mbit/s
95th percentile per-packet one-way delay: 54.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.90 Mbit/s
95th percentile per-packet one-way delay: 54.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 272.01 Mbit/s
95th percentile per-packet one-way delay: 54.724 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 167.33 Mbit/s
95th percentile per-packet one-way delay: 54.065 ms
Loss rate: 0.00%
Run 7: Report of PCC-Vivace — Data Link
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 05:28:12
End at: 2018-05-26 05:28:42
Local clock offset: 0.182 ms
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2018-05-26 09:02:40
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 500.79 Mbit/s
  95th percentile per-packet one-way delay: 53.114 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 334.28 Mbit/s
  95th percentile per-packet one-way delay: 53.321 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 211.93 Mbit/s
  95th percentile per-packet one-way delay: 53.044 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 77.52 Mbit/s
  95th percentile per-packet one-way delay: 49.478 ms
  Loss rate: 0.00%
Run 8: Report of PCC-Vivace — Data Link

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

![Graph 2: Per-packet one way delay (ms) over time](image2)
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 05:51:07
End at: 2018-05-26 05:51:37
Local clock offset: 0.163 ms
Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-05-26 09:03:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 584.99 Mbit/s
95th percentile per-packet one-way delay: 53.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.46 Mbit/s
95th percentile per-packet one-way delay: 54.147 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 334.03 Mbit/s
95th percentile per-packet one-way delay: 50.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.93 Mbit/s
95th percentile per-packet one-way delay: 50.394 ms
Loss rate: 0.00%
Run 9: Report of PCC-Vivace — Data Link

[Graph showing network performance metrics over time for different flows, including throughput and per-packet one-way delay.]
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 06:13:49
End at: 2018-05-26 06:14:19
Local clock offset: 0.224 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 581.95 Mbit/s
95th percentile per-packet one-way delay: 55.117 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 369.14 Mbit/s
95th percentile per-packet one-way delay: 56.402 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 237.04 Mbit/s
95th percentile per-packet one-way delay: 51.566 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 167.27 Mbit/s
95th percentile per-packet one-way delay: 54.110 ms
Loss rate: 0.00%
Run 10: Report of PCC-Vivace — Data Link

![Throughput Graph](image1)

- Flow 1 ingress (mean 369.10 Mbit/s)
- Flow 1 egress (mean 369.14 Mbit/s)
- Flow 2 ingress (mean 237.03 Mbit/s)
- Flow 2 egress (mean 237.04 Mbit/s)
- Flow 3 ingress (mean 167.20 Mbit/s)
- Flow 3 egress (mean 167.27 Mbit/s)

![Delay Graph](image2)

- Flow 1 (95th percentile 56.40 ms)
- Flow 2 (95th percentile 51.57 ms)
- Flow 3 (95th percentile 54.11 ms)
Run 1: Statistics of WebRTC media

Start at: 2018-05-26 02:42:19
End at: 2018-05-26 02:42:49
Local clock offset: -0.14 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.194 ms
Loss rate: 0.00%
Run 1: Report of WebRTC media — Data Link
Run 2: Statistics of WebRTC media

Start at: 2018-05-26 03:05:10
End at: 2018-05-26 03:05:40
Local clock offset: -0.274 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 54.135 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.357 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.317 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.153 ms
  Loss rate: 0.00%
Run 2: Report of WebRTC media — Data Link
Run 3: Statistics of WebRTC media

Start at: 2018-05-26 03:28:30
End at: 2018-05-26 03:29:00
Local clock offset: -0.611 ms
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 54.226 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.954 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.583 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.363 ms
  Loss rate: 0.00%
Run 3: Report of WebRTC media — Data Link
Run 4: Statistics of WebRTC media

Start at: 2018-05-26 03:51:53
End at: 2018-05-26 03:52:23
Local clock offset: -0.201 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.385 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 0.00%
Run 4: Report of WebRTC media — Data Link
Run 5: Statistics of WebRTC media

Start at: 2018-05-26 04:14:36
End at: 2018-05-26 04:15:06
Local clock offset: -0.097 ms
Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 54.038 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 50.901 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.056 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.070 ms
  Loss rate: 0.00%
Run 5: Report of WebRTC media — Data Link

[Graphs showing data link performance metrics for Flow 1, 2, and 3.]
Run 6: Statistics of WebRTC media

Start at: 2018-05-26 04:37:20
End at: 2018-05-26 04:37:50
Local clock offset: 0.084 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 54.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 0.00%
Run 6: Report of WebRTC media — Data Link

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

Legend:
- Flow 1 ingress (mean 0.05 Mbit/s)
- Flow 1 egress (mean 0.05 Mbit/s)
- Flow 2 ingress (mean 0.05 Mbit/s)
- Flow 2 egress (mean 0.05 Mbit/s)
- Flow 3 ingress (mean 0.05 Mbit/s)
- Flow 3 egress (mean 0.05 Mbit/s)
Run 7: Statistics of WebRTC media

Start at: 2018-05-26 05:00:20
End at: 2018-05-26 05:00:50
Local clock offset: 0.554 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 53.402 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.723 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.092 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.259 ms
  Loss rate: 0.00%
Run 7: Report of WebRTC media — Data Link
Run 8: Statistics of WebRTC media

Start at: 2018-05-26 05:23:25
End at: 2018-05-26 05:23:55
Local clock offset: 0.013 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 54.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.375 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.158 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.139 ms
Loss rate: 0.00%
Run 8: Report of WebRTC media — Data Link

![Graph of Throughput vs Time for different flows]

![Graph of Per-packet one-way delay vs Time for different flows]

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Run 9: Statistics of WebRTC media

Start at: 2018-05-26 05:46:21
End at: 2018-05-26 05:46:51
Local clock offset: 0.344 ms
Remote clock offset: -0.219 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.14 Mbit/s
  95th percentile per-packet one-way delay: 53.616 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.541 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 52.726 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.426 ms
  Loss rate: 0.00%
Run 9: Report of WebRTC media — Data Link
Run 10: Statistics of WebRTC media

Start at: 2018-05-26 06:09:06
End at: 2018-05-26 06:09:36
Local clock offset: -0.149 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
  Average throughput: 0.15 Mbit/s
  95th percentile per-packet one-way delay: 53.861 ms
  Loss rate: 0.00%
-- Flow 1:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.688 ms
  Loss rate: 0.00%
-- Flow 2:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 53.695 ms
  Loss rate: 0.00%
-- Flow 3:
  Average throughput: 0.05 Mbit/s
  95th percentile per-packet one-way delay: 54.032 ms
  Loss rate: 0.00%
Run 10: Report of WebRTC media — Data Link

![Throughput and Packet Loss Diagrams]